



**Groundwater Sample Results,  
Level 4 Laboratory Report, Electronic Data Deliverable,  
Data Validation Report, and the Sample Location Report,  
SDG 18-0207**

*Naval Construction Battalion Center Gulfport  
Gulfport, Mississippi*

July 2019

N62604\_002141  
NCBC GULFPORT, MS  
SSIC 5000-33c

**LABORATORY DATA PACKAGE 18-0207 REVISION 01 NCBC GULFPORT MS**  
04/06/2018  
BATTELLE

Approved for public release: distribution unlimited.



**PFAS Analytical work**  
**Project No 100112541**  
**PFAS by DoD QSM 5.1 Table B-15**  
*GW*  
*Batch 18-0207*  
*Package DP-18-0053*

Submitted to:  
Tetra Tech  
661 Anderson Drive Foster Plaza 7  
Pittsburgh, PA 15220 USA

Submitted by:  
Battelle Norwell Operations  
141 Longwater Drive Suite 202  
Norwell, MA 02061



**PFAS Analytical work**  
**Project No 100112541**  
**PFAS by DoD QSM 5.1 Table B-15**  
*GW*  
*Batch 18-0207*  
*Package DP-18-0053*

Submitted to:  
Tetra Tech  
661 Anderson Drive Foster Plaza 7  
Pittsburgh, PA 15220 USA

NELAP Accreditation Number: E87856 (Florida Department of Health)  
DoD-ELAP Accreditation Number: 91667

Submitted by:  
Battelle Norwell Operations  
141 Longwater Drive Suite 202  
Norwell, MA 02061

Analyst Approval:		schumitzd@battelle.org 2018.04.04 13:47:37 -04'00'
QC Chemist Approval:		Digitally signed by devinec@battelle.org DN: cn=devinec@battelle.org Date: 2018.04.06 11:43:31 -04'00'
Project Manager Approval:		Digitally signed by Jonathan Thorn Date: 2018.04.06 12:17:25 -04'00'

**BATTELLE**  
It can be done


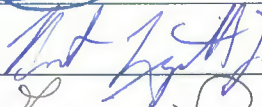






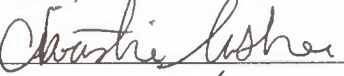

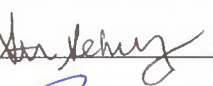





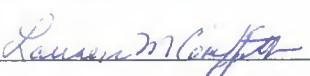
**PFAS Analytical work**  
**Project No 100112541**  
**PFAS by DoD QSM 5.1 Table B-15**  
*QC*  
*Batch 18-0207*  
*Package DP-18-0053*

<b>1</b>	<i>Case Narrative</i> QC Narrative, Miscellaneous Documentation Form, Laboratory Method Quality Objective table, and Retention Time report.	<b>1</b>
<b>2</b>	<i>Chain of Custody</i> Field and laboratory chain of custody forms	<b>11</b>
<b>3</b>	<i>Data Summary Package</i> Field and quality control sample data tables.	<b>18</b>
<b>4</b>	<i>Analytical Fractions - PFAS</i> Results and QC Summary, raw data quantification reports, calibration Data, miscellaneous (project work plan, sample preparation records, standards, certificates of analysis, and detection limit data).	<b>33</b>

**BATTELLE**

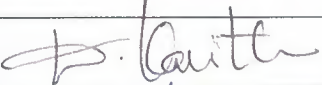



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## Signature Page

Battelle 2018 (1 of 2) Signature Page			
Name (Printed)	Signature	Initials	Date
Jonathan Thorn		JRT	4/4/2018
Robert Lizotte, Jr.		BL	4-4-2018
FRANC PALA		FP	4-4-2018
Carla Devine		CRD	4/4/18
Denise Schumitz		DUS	4/4/18
Charles Kuummela		CKM	4/4/2018
Rich Rostucci		RR	4/4/2018
Monica Mena		MM	4/4/2018
Christie Usher		CU	4/4/18
Kevin Matraca		KM	4/4/18
Stephanie Schultz		SAS	4/4/18
Jordan Tower		JT	4/4/18
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Matt Schumitz		MS	4-4-18
Sam Guimaraes		SG	4-4-18
Lauren Griffith		LG	4-4-18

## Signature Page

Battelle 2018 (2 of 2)  
Signature Page

Name (Printed)	Signature	Initials	Date
KAVITHA DASU		KD	04/04/18
Kayla Lamarre		KAL	04/04/18
Weidong Li		W.L	04/04/18
Tracy W Stenner		Tracy	04/04/18



Norwell Operations  
 141 Longwater Drive, Suite 202  
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July 13<sup>th</sup>, 2018

This data package has been revised to include the following updates to the reporting format:

- Use of LOD values for non-detected values (in place of the MDL value that was used in the original report).
- Use of sample specific MDL, LOD, and LOQ values (adjusted for dilution and sample size variations as compared to the MDL, LOD, and LOQ studies)

In addition to non-detect (“U” qualified) data changing to use the sample specific LOD value (not included in the table below), the information in the following table changed from the original report to the new report. The reason for these changes is the incorrect dilution only impacting the surrogate concentrations was used. This table includes information on all SDG updated and resubmitted on 7/13/2018.

SDG	Lab Sample ID	Client ID	Analyte	New Qual	New SIS Recovery	Old Qual	Old SIS Recovery
18-0207	J5387-FS	06GW08031718	13C4-PFBA	D	117	D	59
18-0207	J5387MSD-FS	06GW08031718	13C4-PFBA	D	102	D	51
18-0207	J5388-FS	06GW09031718	13C4-PFBA	D	136	D	68
18-0207	J5389-FS	06GW04031718	13C4-PFBA	D	149	D	74
18-0207	J5390-FS	06GW16031718	13C4-PFBA	D	115	D	57
18-0207	J5392-FS	06GW15031718	13C4-PFBA	D	119	D	59
18-0207	J5394-FS	06GW14031718	13C4-PFBA	D	138	D	69
18-0207	J5394-FS	06GW14031718	13C5-PFHxA		54		56
18-0207	J5394-FS	06GW14031718	13C4-PFHpA		51		53
18-0207	J5394-FS	06GW14031718	13C8-PFOA	D	108	D	54
18-0207	J5394-FS	06GW14031718	13C9-PFNA	D	102	D	51
18-0207	J5394-FS	06GW14031718	13C6-PFDA		90		94
18-0207	J5394-FS	06GW14031718	13C7-PFUnA		90		93
18-0207	J5394-FS	06GW14031718	13C2-PFDoA		70		73
18-0207	J5394-FS	06GW14031718	13C2-PFTeDA		56		59
18-0207	J5394-FS	06GW14031718	d3-MeFOSAA		100		104
18-0207	J5394-FS	06GW14031718	d5-EtFOSAA		79		82
18-0207	J5394-FS	06GW14031718	13C3-PFBS		130		135
18-0207	J5394-FS	06GW14031718	13C3-PFHxS		121		126
18-0207	J5394-FS	06GW14031718	13C8-PFOS		106		110
18-0207	J5395-FS	06GW06031718	13C4-PFBA	D	113	D	57
18-0207	J5396-FS	06GW03031718	13C4-PFBA	D	124	D	62
18-0207	J5397-FS	06FDGW0318	13C4-PFBA	D	130	D	65

The original data tables have been moved to the unused data section of this complete data package.

## QA/QC Summary Batch 18-0207

Project:	CTO-JM08 – Naval Construction Battalion Center (NCBC)
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	Water, GW
Data Set:	DP-18-0053
Analytical SOP:	5-369
Method Reference:	PFAS to QSM 5.1 Table B-15

### Sample Custody

Collection Date	Receipt Date	Temp (°C)
3/17/2018	3/20/2018	0.1
Corrective Actions	<ul style="list-style-type: none"> <li>Chain of Custody forms were not signed. Client signed and send scanned copy to the laboratory.</li> <li>One sample did not indicate the correct number of samples received. Client corrected sample counts via email.</li> </ul>	
Sample Storage	The water samples were stored refrigerated until extraction.	
Related samples	Field reagent blanks 06GW09FRB0318, 06GW15FRB0318, and 06GW14FRB0318 were extracted in batch 18-0216 are associated with these samples.	

### METHOD SUMMARIES

Sample Preparation	Water samples were spiked with surrogates in the original sample container from the field. The water was extracted using a weak ion exchange solid phase extraction (SPE) cartridge and eluted from the SPE with 0.4% NH <sub>3</sub> in methanol. Extracts were split and concentrated to dryness under nitrogen with a water bath set between 50 °C and 60 °C, reconstituted with 80:20 methanol/water (V/V) and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis.
Prep comments	Due to particulate matter present in the sample containers, laboratory sample IDs J5387, the MS/MSD associated with J5387, and J5392 were centrifuged prior to fortification with labelled analogs.
Analysis	PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations.
Analysis Comments	<p>Battelle sample IDs J5394 and J5396 for PFNA contain both branched and linear isomers.</p> <p>Battelle sample IDs J5388, J5389, J5390, J5392, J5394, J5395, J5396, and J5397 for PFOS contain both branched and linear isomers.</p> <p>Samples analyzed on Sciex 5500 LC-MS/MS.</p> <p>The injection internal standard 13C2-PFOA in laboratory sample ID J5394 was above criteria due to matrix effects. This sample was diluted and the extracted</p>

**QA/QC Summary**  
**Batch 18-0207**

	<p>internal standards associated with this standard were quantified and reported from the dilution.</p> <p>The injection internal standard 13C3-PFBA in laboratory sample ID J5387, J5387MS, J5387MSD, J5388, J5389, J5394, J5395, J5396, and J5397 were above criteria due to matrix effects. These samples were diluted, and the extracted internal standard was quantified and reported from the dilution.</p>	
Holding Times	Extraction Date(s)	Analysis Date(s)
	3/22/2018	3/28/2018 – 3/30/2018
Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.	
≤ ½ the LOQ Samples >10x PB	No exceedances noted.	
	No comments.	
Laboratory Control Spike (LCS)	A LCS was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.	
Laboratory derived control limits for recovery	No exceedances noted.	
	No comments.	
Matrix Spike (MS) / Duplicate (MSD)	A MS/MSD were prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. The relative percent difference was calculated to measure precision.	
Laboratory derived control limits for recovery, RPD ≤ 30%	No exceedances noted.	
	No Comments.	
Extracted Internal Standard Analytes	Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.	
50-150% of true value	No exceedances noted.	
	No Comments.	
Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.	
+/- 30% of true value, R <sup>2</sup> ≥0.99	No exceedances noted.	
	No comments.	
Independent Calibration Check (ICC)	The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL.	



**QA/QC Summary**  
**Batch 18-0207**

+/- 30% of true value	No exceedances noted.
	No comments.
Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted.
	No comments.
Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
≤ ½ the LOQ	No exceedances noted.
	No comments.



## BATTELLE - NORWELL OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

<b>Project Title:</b> PFAS Analytical work	<b>Data Set Number:</b> DP-18-0053
<b>Project Number:</b> 100112541	<b>Prep Batch Number:</b> 18-0207
<b>Entered By:</b> Denise Schumitz	<b>Entered On:</b> 04/04/2018
<b>Test Code (Matrix Type):</b> Master_369(L)	

JU12 is not being used in the calibration curve for d3-MeFOSAA in the SIS method and NMeFOSAA from the Base method. There is no impact on the data once this point is dropped from the curve.  
DMS 4/4/2018

JU04 is not being used in the calibration curve for PFHpA, PFOA, PFOS, PFTTrDA, PFTeDA, NMeFOSAA and PFBA in the Base method. There is no impact on the data once this point is dropped from the curve.  
DMS 4/4/2018

JU05 is not being used in the calibration curve for PFHpA, PFTeDA, NMeFOSAA and PFBA in the Base method. There is no impact on the data once this point is dropped from the curve.  
DMS 4/4/2018

13C2-PFOA, the internal standard is above the passing criteria in sample J5394 due to contribution of the sample matrix. The sample was diluted and 13-C2-PFOA is being reported from the dilution.  
DMS 4/4/2018

13C3-PFBA, the internal standard is above the passing criteria in samples J5387, J5387MS, J5387MSD, J5388, J5389, J5390, J5394, J5395, J5396 and J5397 due to contribution of the sample matrix. The samples were diluted and 13C4-PFBA is being reported from the dilutions.  
DMS 4/4/2018

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).  
DMS 4/4/2018

**Task Leader Approval:**

**Supervisor Approval:**

**PM Approval:**

Digitally signed by Jonathan  
Thorn

Date: 2018.04.06 12:17:00 -04'00'



**It can be done**

Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541  
 Preparation Batch: 18-0207  
 Data Set: DP-18-0053  
 Test Code: Master\_369

QC Parameter:	Exceed:	Justification:
Procedural Blank	0	None
PB Measurement Quality Objective	0	None
Laboratory Control Sample	0	None
Matrix Spike / Matrix Spike Duplicate Recovery	0	None
Matrix Spike / Matrix Spike Duplicate Precision	0	None
Extracted Internal Standard Analytes (Surrogates)	0	None
Instrument Calibration	0	None
Instrument Blank	0	None
Independent Calibration Check	0	None
Continuing Calibration Verification	0	None

## IS Area Report

Batch: 18-0207

Result Table: 18-0207\_SIS &amp; 18-0207\_SIS\_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
19	JU04	Standard	3/28/2018 19:46	13C2-PFOA	28110	12525	37575	Pass
37	JU05	Standard	3/28/2018 19:57	13C2-PFOA	23700	12525	37575	Pass
55	JU06	Standard	3/28/2018 20:08	13C2-PFOA	25050	12525	37575	Pass
73	JU07	Standard	3/28/2018 20:19	13C2-PFOA	30300	12525	37575	Pass
91	JU08	Standard	3/28/2018 20:30	13C2-PFOA	25080	12525	37575	Pass
109	JU09	Standard	3/28/2018 20:40	13C2-PFOA	26460	12525	37575	Pass
127	JU10	Standard	3/28/2018 20:51	13C2-PFOA	26410	12525	37575	Pass
145	JU11	Standard	3/28/2018 21:02	13C2-PFOA	26170	12525	37575	Pass
163	JU12	Standard	3/28/2018 21:13	13C2-PFOA	34000	12525	37575	Pass
181	JP83 IB	Quality Control	3/28/2018 21:23	13C2-PFOA	31350	12525	37575	Pass
199	JU13 ICC	Quality Control	3/28/2018 21:34	13C2-PFOA	25470	12525	37575	Pass
217	JU38 Branch	Quality Control	3/28/2018 21:45	13C2-PFOA	29970	12525	37575	Pass
253	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C2-PFOA	31470	12525	37575	Pass
271	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C2-PFOA	30570	12525	37575	Pass
289	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C2-PFOA	18260	12525	37575	Pass
307	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C2-PFOA	18400	12525	37575	Pass
325	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C2-PFOA	19240	12525	37575	Pass
343	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C2-PFOA	31480	12525	37575	Pass
361	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C2-PFOA	22510	12525	37575	Pass
379	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C2-PFOA	30610	12525	37575	Pass
397	JU09 CCV	Quality Control	3/29/2018 0:16	13C2-PFOA	30300	12525	37575	Pass
433	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C2-PFOA	24650	12525	37575	Pass
451	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C2-PFOA	68540	12525	37575	Fail <sup>1</sup>
469	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C2-PFOA	28170	12525	37575	Pass
487	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C2-PFOA	23950	12525	37575	Pass
505	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C2-PFOA	28560	12525	37575	Pass
523	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C2-PFOA	32410	12525	37575	Pass
541	JU10 CCV	Quality Control	3/29/2018 1:42	13C2-PFOA	31930	12525	37575	Pass
20	JU04	Standard	3/28/2018 19:46	13C4-PFOS	10060	4801	14402	Pass
38	JU05	Standard	3/28/2018 19:57	13C4-PFOS	8431	4801	14402	Pass
56	JU06	Standard	3/28/2018 20:08	13C4-PFOS	9601	4801	14402	Pass
74	JU07	Standard	3/28/2018 20:19	13C4-PFOS	10710	4801	14402	Pass
92	JU08	Standard	3/28/2018 20:30	13C4-PFOS	8102	4801	14402	Pass
110	JU09	Standard	3/28/2018 20:40	13C4-PFOS	10010	4801	14402	Pass
128	JU10	Standard	3/28/2018 20:51	13C4-PFOS	7234	4801	14402	Pass
146	JU11	Standard	3/28/2018 21:02	13C4-PFOS	7902	4801	14402	Pass
182	JP83 IB	Quality Control	3/28/2018 21:23	13C4-PFOS	9601	4801	14402	Pass

## IS Area Report

Batch: 18-0207

Result Table: 18-0207\_SIS &amp; 18-0207\_SIS\_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
200	JU13 ICC	Quality Control	3/28/2018 21:34	13C4-PFOS	9201	4801	14402	Pass
218	JU38 Branch	Quality Control	3/28/2018 21:45	13C4-PFOS	10110	4801	14402	Pass
254	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C4-PFOS	9743	4801	14402	Pass
272	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C4-PFOS	8607	4801	14402	Pass
290	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C4-PFOS	4915	4801	14402	Pass
308	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C4-PFOS	4974	4801	14402	Pass
326	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C4-PFOS	4805	4801	14402	Pass
344	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C4-PFOS	9823	4801	14402	Pass
362	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C4-PFOS	5273	4801	14402	Pass
380	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C4-PFOS	7482	4801	14402	Pass
398	JU09 CCV	Quality Control	3/29/2018 0:16	13C4-PFOS	10350	4801	14402	Pass
434	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C4-PFOS	6840	4801	14402	Pass
452	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C4-PFOS	7055	4801	14402	Pass
470	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C4-PFOS	10830	4801	14402	Pass
488	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C4-PFOS	6163	4801	14402	Pass
506	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C4-PFOS	7646	4801	14402	Pass
524	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C4-PFOS	8738	4801	14402	Pass
542	JU10 CCV	Quality Control	3/29/2018 1:42	13C4-PFOS	9198	4801	14402	Pass
21	JU04	Standard	3/28/2018 19:46	13C2-PFDA	41340	19225	57675	Pass
39	JU05	Standard	3/28/2018 19:57	13C2-PFDA	33110	19225	57675	Pass
57	JU06	Standard	3/28/2018 20:08	13C2-PFDA	38450	19225	57675	Pass
75	JU07	Standard	3/28/2018 20:19	13C2-PFDA	41500	19225	57675	Pass
93	JU08	Standard	3/28/2018 20:30	13C2-PFDA	35120	19225	57675	Pass
111	JU09	Standard	3/28/2018 20:40	13C2-PFDA	38600	19225	57675	Pass
129	JU10	Standard	3/28/2018 20:51	13C2-PFDA	33750	19225	57675	Pass
147	JU11	Standard	3/28/2018 21:02	13C2-PFDA	35090	19225	57675	Pass
165	JU12	Standard	3/28/2018 21:13	13C2-PFDA	48470	19225	57675	Pass
183	JP83 IB	Quality Control	3/28/2018 21:23	13C2-PFDA	42790	19225	57675	Pass
201	JU13 ICC	Quality Control	3/28/2018 21:34	13C2-PFDA	34240	19225	57675	Pass
219	JU38 Branch	Quality Control	3/28/2018 21:45	13C2-PFDA	39510	19225	57675	Pass
255	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C2-PFDA	47690	19225	57675	Pass
273	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C2-PFDA	41370	19225	57675	Pass
291	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C2-PFDA	24290	19225	57675	Pass
309	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C2-PFDA	24780	19225	57675	Pass
327	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C2-PFDA	22750	19225	57675	Pass
345	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C2-PFDA	38400	19225	57675	Pass
363	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C2-PFDA	22860	19225	57675	Pass
381	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C2-PFDA	40110	19225	57675	Pass

## IS Area Report

Batch: 18-0207

Result Table: 18-0207\_SIS &amp; 18-0207\_SIS\_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
399	JU09 CCV	Quality Control	3/29/2018 0:16	13C2-PFDA	43390	19225	57675	Pass
435	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C2-PFDA	32750	19225	57675	Pass
453	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C2-PFDA	37930	19225	57675	Pass
471	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C2-PFDA	44650	19225	57675	Pass
489	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C2-PFDA	25650	19225	57675	Pass
507	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C2-PFDA	31410	19225	57675	Pass
525	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C2-PFDA	35380	19225	57675	Pass
543	JU10 CCV	Quality Control	3/29/2018 1:42	13C2-PFDA	41760	19225	57675	Pass
35	JU04	Standard	3/28/2018 19:46	13C3-PFBA	22390	10370	31110	Pass
53	JU05	Standard	3/28/2018 19:57	13C3-PFBA	19360	10370	31110	Pass
71	JU06	Standard	3/28/2018 20:08	13C3-PFBA	20740	10370	31110	Pass
89	JU07	Standard	3/28/2018 20:19	13C3-PFBA	22300	10370	31110	Pass
107	JU08	Standard	3/28/2018 20:30	13C3-PFBA	19470	10370	31110	Pass
125	JU09	Standard	3/28/2018 20:40	13C3-PFBA	24980	10370	31110	Pass
143	JU10	Standard	3/28/2018 20:51	13C3-PFBA	21600	10370	31110	Pass
161	JU11	Standard	3/28/2018 21:02	13C3-PFBA	22240	10370	31110	Pass
179	JU12	Standard	3/28/2018 21:13	13C3-PFBA	22470	10370	31110	Pass
197	JP83 IB	Quality Control	3/28/2018 21:23	13C3-PFBA	23000	10370	31110	Pass
215	JU13 ICC	Quality Control	3/28/2018 21:34	13C3-PFBA	21670	10370	31110	Pass
233	JU38 Branch	Quality Control	3/28/2018 21:45	13C3-PFBA	21900	10370	31110	Pass
269	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C3-PFBA	20980	10370	31110	Pass
287	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C3-PFBA	21260	10370	31110	Pass
305	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C3-PFBA	1068000	10370	31110	Fail <sup>1</sup>
323	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C3-PFBA	965900	10370	31110	Fail <sup>1</sup>
341	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C3-PFBA	1037000	10370	31110	Fail <sup>1</sup>
359	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C3-PFBA	41620	10370	31110	Fail <sup>1</sup>
377	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C3-PFBA	33570	10370	31110	Fail <sup>1</sup>
395	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C3-PFBA	67750	10370	31110	Fail <sup>1</sup>
413	JU09 CCV	Quality Control	3/29/2018 0:16	13C3-PFBA	25530	10370	31110	Pass
449	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C3-PFBA	23170	10370	31110	Pass
467	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C3-PFBA	146600	10370	31110	Fail <sup>1</sup>
485	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C3-PFBA	18180	10370	31110	Pass
503	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C3-PFBA	201800	10370	31110	Fail <sup>1</sup>
521	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C3-PFBA	31620	10370	31110	Fail <sup>1</sup>
539	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C3-PFBA	54880	10370	31110	Fail <sup>1</sup>
557	JU10 CCV	Quality Control	3/29/2018 1:42	13C3-PFBA	19780	10370	31110	Pass

**IS Area Report**

**Batch: 18-0207**

Result Table: 18-0207\_SIS & 18-0207\_SIS\_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
4	JU04	Standard	3/29/2018 19:46	13C3-PFBA	27720	11490	34470	Pass
6	JU05	Standard	3/29/2018 19:57	13C3-PFBA	30010	11490	34470	Pass
8	JU06	Standard	3/29/2018 20:08	13C3-PFBA	22980	11490	34470	Pass
10	JU07	Standard	3/29/2018 20:19	13C3-PFBA	24680	11490	34470	Pass
12	JU08	Standard	3/29/2018 20:29	13C3-PFBA	22300	11490	34470	Pass
14	JU09	Standard	3/29/2018 20:40	13C3-PFBA	26380	11490	34470	Pass
16	JU10	Standard	3/29/2018 20:51	13C3-PFBA	24160	11490	34470	Pass
18	JU11	Standard	3/29/2018 21:02	13C3-PFBA	19020	11490	34470	Pass
20	JU12	Standard	3/29/2018 21:12	13C3-PFBA	27900	11490	34470	Pass
22	JP83 IB	Quality Control	3/29/2018 21:23	13C3-PFBA	29780	11490	34470	Pass
24	JU13 ICC	Quality Control	3/29/2018 21:34	13C3-PFBA	24700	11490	34470	Pass
26	JU38 Branch	Quality Control	3/29/2018 21:45	13C3-PFBA	24470	11490	34470	Pass
30	J5387-FS-D(5)	Quality Control	3/29/2018 23:22	13C3-PFBA	17270	11490	34470	Pass
32	J5387MS-FS-D(5)	Quality Control	3/29/2018 23:33	13C3-PFBA	21710	11490	34470	Pass
34	J5387MSD-FS-D(5)	Quality Control	3/29/2018 23:43	13C3-PFBA	20960	11490	34470	Pass
36	J5388-FS-D(5)	Quality Control	3/29/2018 23:54	13C3-PFBA	18080	11490	34470	Pass
38	J5389-FS-D(5)	Quality Control	3/30/2018 0:05	13C3-PFBA	17020	11490	34470	Pass
40	J5390-FS-D(5)	Quality Control	3/30/2018 0:16	13C3-PFBA	23680	11490	34470	Pass
42	JU10 CCV	Quality Control	3/30/2018 0:26	13C3-PFBA	22580	11490	34470	Pass
46	J5392-FS-D(5)	Quality Control	3/30/2018 0:48	13C3-PFBA	19550	11490	34470	Pass
48	J5395-FS-D(5)	Quality Control	3/30/2018 0:59	13C3-PFBA	22490	11490	34470	Pass
50	J5396-FS-D(5)	Quality Control	3/30/2018 1:10	13C3-PFBA	20280	11490	34470	Pass
52	J5397-FS-D(5)	Quality Control	3/30/2018 1:20	13C3-PFBA	18880	11490	34470	Pass
54	JU08 CCV	Quality Control	3/30/2018 1:31	13C3-PFBA	20630	11490	34470	Pass

<sup>1</sup> - See Misc Doc DMS 4/4/2018

It can be done

Battelle Project No:

## Sample Receipt Form

Approved:  Authorized 

Project Number: 100115738-JM08 Client: Tetrattech  
Received by: Schumitz, Matt Date/Time Received: Tuesday, March 20, 2018 10:30 AM  
No. of Shipping Containers: 1

**SHIPMENT**

Method of Delivery: Commercial Carrier Tracking Number: Fed Ex  
COC Forms:  Shipped with samples  No Forms

**Cooler(s)/Box(es)**

Cntr	Type	Tracking No.	Seal	Seal	Container	Therm.	Temp C	Smgs
1 of 1	Cooler	8748 4755 5975	Tape	Intact	Intact	Therm_1	0.1	12

**Samples**

Sample Labels:  Sample labels agree with COC forms  
 Discrepancies (see Sample Custody Corrective Action Form)

Container Seals:  Tape  Custody Seals  Other Seals (See sample Log)  
 Seals intact for each shipping container  
 Seals broken (See sample log for impacted samples)

Condition of Samples:  Sample containers intact  
 Sample containers broken/leaking (See Custody Corrective Action Form)

Temperature upon receipt (°C): 0.1 Temperature Blank used  Yes  No  
*(Note: If temperature upon receipt differs from required conditions, see sample log comment field)*

Samples Acidified:  Yes  No  Unknown

Initial pH 5-9?:  Yes  No  NA  
*If no, individual sample adjustments on the Auxiliary Sample Receipt Form*

Total Residual Chlorine Present?:  Yes  No  NA  
*If yes, individual sample adjustments on the Auxiliary Sample Receipt Form*

Head Space <1% in samples for water VOC analysis:  Yes  No  NA  
*Individual sample deviations noted on sample log*

Samples Containers:  
Samples returned in PC-grade jars:  Yes  No  Unknown /Lot No.: UnKnown

Storage Location: Custody: Refrigerator - R0118 (NA) BDO IDs Assigned: J5386 - J5397

Samples logged in by: Schumitz, Matt Date/Time: 03/20/2018 10:30 AM

Approved By: \_\_\_\_\_ Approved On: \_\_\_\_\_

Authorized By: \_\_\_\_\_ Authorized On: \_\_\_\_\_



## Report Corrective Actions

Corrective Action No: 1 of 1

Authorized  Approved:

COC Client: Tetrattech  
COC Project: 112G08005-JM08  
COC Date: 3/20/2018 2:12:

Description of Problem:		Explanation:
Custody	Other	Sample 06GW08031718 is listed on the COC to have 2 bottles but there were 6 bottles in the cooler.
Samples not relinquished from sender		There are no signatures on the COC

### Documentation of project manager notification

**Sample Custodian** Schumitz, Matt **Date:** 3/20/2018 2:34:00 PM  
**Laboratory Manager:** Thorn, Jonathan **Date:** 3/27/2018 12:47:00 P  
**Project Manager:** Thorn, Jonathan **Date:** 3/27/2018 12:47:00 P

### Documentation of client notification (should be completed by project manager within 24 hrs):

On 20-Mar-18 I contacted Roof, Greg at Tetra Tech

### Results of communication with client (Describe any corrective action directed by the client):

See attached email response sent by William Olson.

Date this form was received back to the custodian: \_\_\_\_\_

Reference Number: \_\_\_\_\_

**Thorn, Jonathan R**

---

**From:** Olson, William <William.Olson@tetrattech.com>  
**Sent:** Wednesday, March 21, 2018 8:49 AM  
**To:** Thorn, Jonathan R  
**Subject:** RE: JM08 sample receipt  
**Attachments:** COC GPT site 6.pdf

Message received from outside the Battelle network. Carefully examine it before you open any links or attachments.

- Sample 06GW08031718 is listed on the COC as having 2 containers, however 6 were received – please verify that this is correct (this is the sample for the MS/MSD, so 6 would be correct, I believe)
- Yes that is MS/MSD
- COC forms were not signed to relinquish custody of the samples to us, please sign and scan a copy over to us to complete the COC forms.

Please see attached

verify that you do not want the FRB samples extracted and analyzed with the remaining field samples, yes that is correct

---

**From:** Thorn, Jonathan R [mailto:thorn@battelle.org]  
**Sent:** Wednesday, March 21, 2018 7:55 AM  
**To:** Roof, Gregory <Gregory.Roof@tetrattech.com>  
**Cc:** Olson, William <William.Olson@tetrattech.com>  
**Subject:** FW: JM08 sample receipt

Greg,  
 Apologies for the delay in getting this to you – the email address I had was incorrect. The email below is in regard to the JM08 samples received yesterday.  
 Best Regards,  
 Jon

---

**From:** Thorn, Jonathan R  
**Sent:** Tuesday, March 20, 2018 4:14 PM  
**To:** 'greg.roof@tetrattech.com' <[greg.roof@tetrattech.com](mailto:greg.roof@tetrattech.com)>  
**Cc:** 'Olson, William' <[William.Olson@tetrattech.com](mailto:William.Olson@tetrattech.com)>; Schumitz, Matthew <[SCHUMITZM@battelle.org](mailto:SCHUMITZM@battelle.org)>  
**Subject:** JM08 sample receipt

Greg and William,  
 Attached are copies of the COC forms for the JM08 shipment received today. Samples arrived in good condition and within temperature specifications.

There were two corrective actions (see page 2) that require verification or action from you (William):

- Sample 06GW08031718 is listed on the COC as having 2 containers, however 6 were received – please verify that this is correct (this is the sample for the MS/MSD, so 6 would be correct, I believe)
- COC forms were not signed to relinquish custody of the samples to us, please sign and scan a copy over to us to complete the COC forms.

TAT will be based on 21 calendar days from receipt of samples, making the delivery date for this set as 4/10/2018. The statement of work for these samples states that the 3 FRB samples will not be analyzed unless the associated samples have PFAS concentrations greater than 1/3 the LOQ, please verify that you do not want the FRB samples extracted and analyzed with the remaining field samples (if extracted later, the FRB samples will not have an associated MS/MSD sample, however, the matrix on these is PFAS free laboratory water, so that should not be an issue either). We can start extractions as soon as we get verification on the FRB samples.

Please do not hesitate to contact me if you have any questions or concerns.

Best Regards,

Jon

**Jonathan Thorn**

*Laboratory Director*

Analytical Chemistry Services

Office: 781.681.5565 | Mobile: 781.710.9664 | Fax: 614.458.6917

[thorn@battelle.org](mailto:thorn@battelle.org)

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It can be done

ShpNo SHP-180320-02

Battelle Project No:

Sample Receipt Form Details

Approved:  Authorized

Project Number: 100115738-JM08

Client: Tetrattech

Received by: Schumitz, Matt

Date/Time Received: Tuesday, March 20, 2018 10:30 AM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
J5386	06GW09FRB0318	03/17/18 9:05	03/20/18 14:22	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5387	06GW08031718	03/17/18 9:25	03/20/18 14:22	6	GW	0.1	NA	NA	NA	R0118 (NA)			MSMSD
J5388	06GW09031718	03/17/18 9:23	03/20/18 14:25	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5389	06GW04031718	03/17/18 9:30	03/20/18 14:27	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5390	06GW16031718	03/17/18 10:23	03/20/18 14:28	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5391	06GW15FRB0318	03/17/18 10:25	03/20/18 14:28	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5392	06GW15031718	03/17/18 10:30	03/20/18 14:29	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5393	06GW14FRB0318	03/17/18 10:35	03/20/18 14:29	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5394	06GW14031718	03/17/18 10:40	03/20/18 14:30	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5395	06GW06031718	03/17/18 11:25	03/20/18 14:30	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5396	06GW03031718	03/17/18 12:05	03/20/18 14:31	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5397	06FDGW0318	03/17/18 0:00	03/20/18 14:31	2	GW	0.1	NA	NA	NA	R0118 (NA)			

Total Samples: 12

**BATTELLE**

It can be done

## Chain-of-Custody

Client Contact Information		Project Manager: <u>G. Roof</u>		Sampling Site: <u>NCRC Gulfport</u>		Site Information: <u>Side 6</u>	
Sampler Information (print name): <u>W.D. Olson</u>		Phone: <u>850 443 6855</u>		Email: <u>William.Olson@tetratech.com</u>		COC # <u>L</u>	
Turnaround Time (TAT) Requested:		Normal Priority		RI/SH		Page# <u>L</u>	
Project Name: <u>112608005-Jm08</u>		Time Zone:		Analytic		MS/MSD	
Project No: <u>10015738-Jm08</u>		Sample Date		Sample Time		Sample Type	
Sample Identification		Sample Matrix		Total # of Samples			
JS386	<u>06GW09FRB0318</u>	<u>3-17-18</u>	<u>0905</u>	<u>Grub</u>	<u>Grub</u>	1	
JS387	<u>06GW08031718</u>		<u>0925</u>	<u>Grub</u>	<u>Grub</u>	2	
JS388	<u>06GW09031718</u>		<u>0923</u>	<u>Grub</u>	<u>Grub</u>	2	
JS389	<u>06GW04031718</u>		<u>0930</u>	<u>Grub</u>	<u>Grub</u>	2	
JS390	<u>06GW16031718</u>		<u>1023</u>	<u>Grub</u>	<u>Grub</u>	2	
JS391	<u>06GW15FRB0318</u>		<u>1025</u>	<u>QC</u>	<u>QC</u>	1	
JS392	<u>06GW15031718</u>		<u>1030</u>	<u>Grub</u>	<u>Grub</u>	2	
JS393	<u>06GW14FRB0318</u>		<u>1035</u>	<u>QC</u>	<u>QC</u>	1	
JS394	<u>06GW14031718</u>		<u>1040</u>	<u>Grub</u>	<u>Grub</u>	2	
JS395	<u>06GW06031718</u>		<u>1125</u>	<u>Grub</u>	<u>Grub</u>	2	
JS396	<u>06GW03031718</u>		<u>1205</u>	<u>Grub</u>	<u>Grub</u>	2	
JS397	<u>06FDGW0318</u>		<u>0000</u>	<u>QC</u>	<u>Grub</u>	2	
Receipt Temperature: (°C) <u>0.1<sup>d</sup></u>		Samples Intact: <u>Yes - No</u>		Samples on Ice: <u>Yes - No</u>		Receipt Comments:	
Relinquished by (Print/Sign) <u>W.D. Olson</u>		Company <u>TT</u>		Date/Time <u>3-17-18 1100</u>		Received by (Print/Sign) <u>Matt Schmittz</u>	
Relinquished by (Print/Sign)		Company		Date/Time		Received by (Print/Sign)	
Relinquished by (Print/Sign)		Company		Date/Time		Received by (Print/Sign)	
Relinquished by (Print/Sign)		Company		Date/Time		Received by (Print/Sign)	
Comments: <u>Fedex 8748 4755 5975</u>							

ORIGIN ID: TLHA (850) 385-9899  
DISTRIBUTION

1558 VILLAGE SQUARE BLVD STE 2  
STE 2  
TALLAHASSEE, FL 32309  
UNITED STATES US

SHIP DATE: 19MAR18  
ACTWGT: 39.30 LB  
CAD: 6995894/SSFO1822  
DIMS: 25x14x13 IN

BILL THIRD PARTY

Part # 15629 5962 SALOFR255 01/19

TO J. THORN  
BATTELLE  
141 LONGWATER DR

0.1° Therm-1  
MOS 3-20-18  
10:30

NORWELL MA 02061

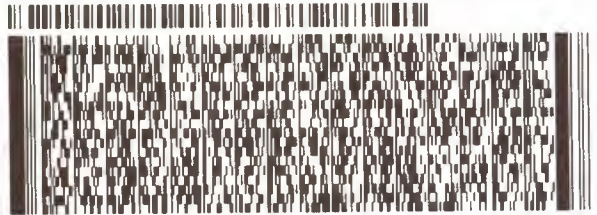
(781) 681-6588

REF:

THU:

PG:

DEPT:



FedEx Express



AN109210811181F

fedex.com 1.800.GoFedEx 1.800.463.3339

RECIPIENT: PEEL HERE

TRK# 8748 4755 5975  
0215

TUE - 20 MAR 10:30A  
PRIORITY OVERNIGHT

XE XPUA

AHS  
02061

MA-US BOS



8748 4755 5975

75

Form ID No. 0215

SFH31

Recipient's Copy

4a Express Package Service

\* To most locations.

Packages up to 150 lbs.

FedEx Priority Overnight  
Next business morning \* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Overnight  
Next business afternoon.\* Saturday Delivery NOT available.

FedEx First Overnight  
Earliest next business morning delivery to select locations.\*

FedEx 2Day  
Second business day.\* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Express Saver  
Third business day.\* Saturday Delivery NOT available.

4b Express Freight Service

\*\* To most locations.

Packages over 150 lbs.

FedEx 1Day Freight  
Next business day.\*\* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx 1Day Freight Booking No.

FedEx 2Day Freight  
Second business day.\*\* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx 3Day Freight  
Third business day\*\* Saturday Delivery NOT available.

5 Packaging

\* Declared value limit \$500.

FedEx Envelope\*

FedEx Pak\*  
Includes FedEx Small Pak and FedEx Large Pak.

FedEx Box

FedEx Tube

Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery  
NOT available for FedEx Standard Overnight, FedEx Express Saver, or FedEx 3Day Freight.

No Signature Required  
Package may be left without obtaining a signature for delivery.

Direct Signature  
Someone at recipient's address may sign for delivery. *Fee applies.*

Indirect Signature  
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?  
One box must be checked.

No  Yes As per attached Shipper's Declaration.

Yes Shipper's Declaration not required.

Dry Ice Dry ice, 9 UN 1845 \_\_\_\_\_ x \_\_\_\_\_ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

Cargo Aircraft Only

7 Payment Bill to:

Obtain recip Acct No

Sender  
Acct. No. in Section (will be billed)

Enter FedEx Acct. No. or Credit Card No. below.

Recipient

Third Party

Credit Card

Cash/Check

Total Packages

Total Weight

Credit Card Auth.

lbs.

\*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

605

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW08031718			
Battelle ID	J5387-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.265			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.47 U	0.13	0.47	4.72
PFHxA	0.47 U	0.18	0.47	4.72
PFHpA	0.47 U	0.15	0.47	4.72
PFOA	48.12	0.17	0.47	4.72
PFNA	0.43 J	0.25	0.94	4.72
PFDA	0.47 U	0.15	0.47	4.72
PFUnA	0.94 U	0.27	0.94	4.72
PFDoA	0.18 J	0.17	0.47	4.72
PFTTrDA	0.22 J	0.14	0.47	4.72
PFTeDA	0.94 U	0.24	0.94	4.72
NMeFOSAA	2.36 U	0.53	2.36	4.72
NEtFOSAA	0.94 U	0.46	0.94	4.72
PFBS	35.26	0.12	0.47	4.72
PFHxS	0.47 U	0.10	0.47	4.72
PFOS	0.47 U	0.18	0.47	4.72

#### Surrogate Recoveries (%)

13C4-PFBA	117 D
13C5-PFHxA	55
13C4-PFHpA	108
13C8-PFOA	85
13C9-PFNA	77
13C6-PFDA	95
13C7-PFUnA	103
13C2-PFDoA	89
13C2-PFTeDA	71
d3-MeFOSAA	126
d5-EtFOSAA	126
13C3-PFBS	90
13C3-PFHxS	111
13C8-PFOS	94



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW09031718			
Battelle ID	J5388-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.270			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.46 U	0.13	0.46	4.63
PFHxA	1.12 J	0.18	0.46	4.63
PFHpA	0.46 U	0.15	0.46	4.63
PFOA	8.24	0.17	0.46	4.63
PFNA	0.32 J	0.24	0.93	4.63
PFDA	0.30 J	0.15	0.46	4.63
PFUnA	0.30 J	0.27	0.93	4.63
PFDoA	0.30 J	0.17	0.46	4.63
PFTeDA	0.16 J	0.14	0.46	4.63
PFTeDA	0.93 U	0.23	0.93	4.63
NMeFOSAA	2.31 U	0.52	2.31	4.63
NEtFOSAA	0.93 U	0.45	0.93	4.63
PFBS	1.15 J	0.12	0.46	4.63
PFHxS	10.96	0.10	0.46	4.63
PFOS	0.66 J	0.18	0.46	4.63

#### Surrogate Recoveries (%)

13C4-PFBA	136 D
13C5-PFHxA	100
13C4-PFHpA	85
13C8-PFOA	64
13C9-PFNA	64
13C6-PFDA	71
13C7-PFUnA	75
13C2-PFDoA	63
13C2-PFTeDA	67
d3-MeFOSAA	82
d5-EtFOSAA	73
13C3-PFBS	110
13C3-PFHxS	93
13C8-PFOS	85





Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW04031718			
Battelle ID	J5389-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.275			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.45 U	0.13	0.45	4.55
PFHxA	1.68 J	0.17	0.45	4.55
PFHpA	0.45 U	0.15	0.45	4.55
PFOA	34.65	0.16	0.45	4.55
PFNA	0.36 J	0.24	0.91	4.55
PFDA	0.28 J	0.15	0.45	4.55
PFUnA	0.91 U	0.26	0.91	4.55
PFDoA	0.45 U	0.16	0.45	4.55
PFTTrDA	0.45 U	0.14	0.45	4.55
PFTeDA	0.91 U	0.23	0.91	4.55
NMeFOSAA	2.27 U	0.51	2.27	4.55
NEtFOSAA	0.91 U	0.45	0.91	4.55
PFBS	1.43 J	0.12	0.45	4.55
PFHxS	0.80 J	0.10	0.45	4.55
PFOS	3.86 J	0.17	0.45	4.55

#### Surrogate Recoveries (%)

13C4-PFBA	149 D
13C5-PFHxA	110
13C4-PFHpA	121
13C8-PFOA	87
13C9-PFNA	74
13C6-PFDA	108
13C7-PFUnA	128
13C2-PFDoA	106
13C2-PFTeDA	79
d3-MeFOSAA	139
d5-EtFOSAA	144
13C3-PFBS	130
13C3-PFHxS	132
13C8-PFOS	120



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW16031718			
Battelle ID	J5390-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.265			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.47 U	0.13	0.47	4.72
PFHxA	0.33 J	0.18	0.47	4.72
PFHpA	0.47 U	0.15	0.47	4.72
PFOA	0.94 J	0.17	0.47	4.72
PFNA	0.94 U	0.25	0.94	4.72
PFDA	0.47 U	0.15	0.47	4.72
PFUnA	0.94 U	0.27	0.94	4.72
PFDoA	0.47 U	0.17	0.47	4.72
PFTTrDA	0.47 U	0.14	0.47	4.72
PFTeDA	0.94 U	0.24	0.94	4.72
NMeFOSAA	2.36 U	0.53	2.36	4.72
NEtFOSAA	0.94 U	0.46	0.94	4.72
PFBS	0.36 J	0.12	0.47	4.72
PFHxS	0.33 J	0.10	0.47	4.72
PFOS	1.47 J	0.18	0.47	4.72

#### Surrogate Recoveries (%)

13C4-PFBA	115 D
13C5-PFHxA	114
13C4-PFHpA	125
13C8-PFOA	109
13C9-PFNA	94
13C6-PFDA	97
13C7-PFUnA	109
13C2-PFDoA	85
13C2-PFTeDA	52
d3-MeFOSAA	144
d5-EtFOSAA	147
13C3-PFBS	135
13C3-PFHxS	115
13C8-PFOS	126



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW15031718			
Battelle ID	J5392-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.265			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	2.74 J	0.13	0.47	4.72
PFHxA	1.70 J	0.18	0.47	4.72
PFHpA	2.38 J	0.15	0.47	4.72
PFOA	4.50 J	0.17	0.47	4.72
PFNA	0.94 U	0.25	0.94	4.72
PFDA	0.47 U	0.15	0.47	4.72
PFUnA	0.94 U	0.27	0.94	4.72
PFDoA	0.47 U	0.17	0.47	4.72
PFTeDA	0.47 U	0.14	0.47	4.72
PFTeDA	0.94 U	0.24	0.94	4.72
NMeFOSAA	2.36 U	0.53	2.36	4.72
NEtFOSAA	0.94 U	0.46	0.94	4.72
PFBS	1.70 J	0.12	0.47	4.72
PFHxS	1.24 J	0.10	0.47	4.72
PFOS	2.51 J	0.18	0.47	4.72

#### Surrogate Recoveries (%)

13C4-PFBA	119 D
13C5-PFHxA	118
13C4-PFHpA	103
13C8-PFOA	90
13C9-PFNA	82
13C6-PFDA	88
13C7-PFUnA	95
13C2-PFDoA	66
13C2-PFTeDA	57
d3-MeFOSAA	89
d5-EtFOSAA	76
13C3-PFBS	132
13C3-PFHxS	107
13C8-PFOS	123



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW14031718			
Battelle ID	J5394-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.280			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.46 U	0.13	0.46	4.65
PFHxA	28.94	0.18	0.46	4.65
PFHpA	24.37	0.15	0.46	4.65
PFOA	718.50 D	4.02	11.16	111.61
PFNA	1.00 J	0.24	0.93	4.65
PFDA	0.46 U	0.15	0.46	4.65
PFUnA	0.93 U	0.27	0.93	4.65
PFDoA	0.46 U	0.17	0.46	4.65
PFTTrDA	0.46 U	0.14	0.46	4.65
PFTeDA	0.93 U	0.23	0.93	4.65
NMeFOSAA	2.32 U	0.52	2.32	4.65
NEtFOSAA	0.93 U	0.46	0.93	4.65
PFBS	7.83	0.12	0.46	4.65
PFHxS	7.73	0.10	0.46	4.65
PFOS	9.58	0.18	0.46	4.65

#### Surrogate Recoveries (%)

13C4-PFBA	138 D
13C5-PFHxA	54
13C4-PFHpA	51
13C8-PFOA	108 D
13C9-PFNA	102 D
13C6-PFDA	90
13C7-PFUnA	90
13C2-PFDoA	70
13C2-PFTeDA	56
d3-MeFOSAA	100
d5-EtFOSAA	79
13C3-PFBS	130
13C3-PFHxS	121
13C8-PFOS	106



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW06031718			
Battelle ID	J5395-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.270			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.46 U	0.13	0.46	4.63
PFHxA	19.81	0.18	0.46	4.63
PFHpA	18.17	0.15	0.46	4.63
PFOA	0.46 U	0.17	0.46	4.63
PFNA	0.93 U	0.24	0.93	4.63
PFDA	0.46 U	0.15	0.46	4.63
PFUnA	0.93 U	0.27	0.93	4.63
PFDoA	0.46 U	0.17	0.46	4.63
PFTrDA	0.46 U	0.14	0.46	4.63
PFTeDA	0.93 U	0.23	0.93	4.63
NMeFOSAA	2.31 U	0.52	2.31	4.63
NEtFOSAA	0.93 U	0.45	0.93	4.63
PFBS	3.28 J	0.12	0.46	4.63
PFHxS	6.71	0.10	0.46	4.63
PFOS	10.90	0.18	0.46	4.63

#### Surrogate Recoveries (%)

13C4-PFBA	113 D
13C5-PFHxA	81
13C4-PFHpA	102
13C8-PFOA	81
13C9-PFNA	70
13C6-PFDA	103
13C7-PFUnA	122
13C2-PFDoA	95
13C2-PFTeDA	62
d3-MeFOSAA	114
d5-EtFOSAA	80
13C3-PFBS	130
13C3-PFHxS	88
13C8-PFOS	87



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW03031718			
Battelle ID	J5396-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.280			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.45 U	0.13	0.45	4.46
PFHxA	7.90	0.17	0.45	4.46
PFHpA	5.64	0.14	0.45	4.46
PFOA	59.57	0.16	0.45	4.46
PFNA	0.42 J	0.23	0.89	4.46
PFDA	0.45 U	0.14	0.45	4.46
PFUnA	0.89 U	0.26	0.89	4.46
PFDoA	0.45 U	0.16	0.45	4.46
PFTeDA	0.45 U	0.13	0.45	4.46
PFTeDA	0.89 U	0.22	0.89	4.46
NMeFOSAA	2.23 U	0.50	2.23	4.46
NEtFOSAA	0.89 U	0.44	0.89	4.46
PFBS	2.78 J	0.12	0.45	4.46
PFHxS	4.09 J	0.10	0.45	4.46
PFOS	2.45 J	0.17	0.45	4.46

#### Surrogate Recoveries (%)

13C4-PFBA	124 D
13C5-PFHxA	111
13C4-PFHpA	90
13C8-PFOA	77
13C9-PFNA	64
13C6-PFDA	74
13C7-PFUnA	82
13C2-PFDoA	62
13C2-PFTeDA	55
d3-MeFOSAA	61
d5-EtFOSAA	64
13C3-PFBS	133
13C3-PFHxS	113
13C8-PFOS	114



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06FDGW0318			
Battelle ID	J5397-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.275			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.45 U	0.13	0.45	4.55
PFHxA	1.49 J	0.17	0.45	4.55
PFHpA	1.66 J	0.15	0.45	4.55
PFOA	38.48	0.16	0.45	4.55
PFNA	0.91 U	0.24	0.91	4.55
PFDA	0.45 U	0.15	0.45	4.55
PFUnA	0.91 U	0.26	0.91	4.55
PFDoA	0.45 U	0.16	0.45	4.55
PFTTrDA	0.45 U	0.14	0.45	4.55
PFTeDA	0.91 U	0.23	0.91	4.55
NMeFOSAA	2.27 U	0.51	2.27	4.55
NEtFOSAA	0.91 U	0.45	0.91	4.55
PFBS	1.42 J	0.12	0.45	4.55
PFHxS	0.39 J	0.10	0.45	4.55
PFOS	4.00 J	0.17	0.45	4.55

#### Surrogate Recoveries (%)

13C4-PFBA	130 D
13C5-PFHxA	123
13C4-PFHpA	102
13C8-PFOA	80
13C9-PFNA	75
13C6-PFDA	94
13C7-PFUnA	124
13C2-PFDoA	92
13C2-PFTeDA	84
d3-MeFOSAA	103
d5-EtFOSAA	120
13C3-PFBS	102
13C3-PFHxS	124
13C8-PFOS	107



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	JP83 IB			
Battelle ID	JP83 IB_03/28/2018			
Sample Type	IB			
Collection Date	NA			
Extraction Date	NA			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	Water			
Sample Size	0.250			
Size Unit-Basis	NA			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.20 J	0.14	0.50	5.00
PFHxA	1.08 J	0.19	0.50	5.00
PFHpA	1.26 J	0.16	0.50	5.00
PFOA	1.11 J	0.18	0.50	5.00
PFNA	1.03 J	0.26	1.00	5.00
PFDA	1.10 J	0.16	0.50	5.00
PFUnA	1.01 J	0.29	1.00	5.00
PFDoA	1.09 J	0.18	0.50	5.00
PFTTrDA	1.05 J	0.15	0.50	5.00
PFTeDA	0.93 J	0.25	1.00	5.00
NMeFOSAA	1.05 J	0.56	2.50	5.00
NEtFOSAA	1.72 J	0.49	1.00	5.00
PFBS	0.95 J	0.13	0.50	5.00
PFHxS	1.00 J	0.11	0.50	5.00
PFOS	1.13 J	0.19	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	104
13C5-PFHxA	87
13C4-PFHpA	93
13C8-PFOA	100
13C9-PFNA	97
13C6-PFDA	101
13C7-PFUnA	100
13C2-PFDoA	95
13C2-PFTeDA	89
d3-MeFOSAA	112
d5-EtFOSAA	93
13C3-PFBS	101
13C3-PFHxS	110
13C8-PFOS	92





Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	Procedural Blank			
Battelle ID	CQ320PB-FS			
Sample Type	PB			
Collection Date	03/22/2018			
Extraction Date	03/22/2018			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	WATER			
Sample Size	0.250			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.28 J	0.14	0.50	5.00
PFHxA	0.50 U	0.19	0.50	5.00
PFHpA	0.50 U	0.16	0.50	5.00
PFOA	0.22 J	0.18	0.50	5.00
PFNA	1.00 U	0.26	1.00	5.00
PFDA	0.50 U	0.16	0.50	5.00
PFUnA	1.00 U	0.29	1.00	5.00
PFDoA	0.50 U	0.18	0.50	5.00
PFTeDA	0.50 U	0.15	0.50	5.00
PFTeDA	1.00 U	0.25	1.00	5.00
NMeFOSAA	2.50 U	0.56	2.50	5.00
NEtFOSAA	1.00 U	0.49	1.00	5.00
PFBS	0.50 U	0.13	0.50	5.00
PFHxS	0.50 U	0.11	0.50	5.00
PFOS	0.50 U	0.19	0.50	5.00

#### Surrogate Recoveries (%)

13C4-PFBA	111
13C5-PFHxA	103
13C4-PFHpA	93
13C8-PFOA	99
13C9-PFNA	99
13C6-PFDA	95
13C7-PFUnA	114
13C2-PFDoA	84
13C2-PFTeDA	54
d3-MeFOSAA	99
d5-EtFOSAA	115
13C3-PFBS	123
13C3-PFHxS	105
13C8-PFOS	119



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	Laboratory Control Sample					
Battelle ID	CQ321LCS-FS					
Sample Type	LCS					
Collection Date	03/22/2018					
Extraction Date	03/22/2018					
Analysis Date	03/28/2018					
Analytical Instrument	Sciex 5500 LC/MS/MS					
% Moisture	NA					
Matrix	WATER					
Sample Size	0.250					
Size Unit-Basis	L					
Units	ng/L	Target	Recovery	Qual	Control Limits	
					Lower	Upper
PFBA	12.65	10.00	127		61	139
PFHxA	10.67	10.10	106		51	137
PFHpA	9.40	10.00	94		48	136
PFOA	10.03	10.00	100		49	141
PFNA	10.22	10.00	102		58	122
PFDA	11.55	10.00	116		59	135
PFUnA	10.26	10.00	103		64	134
PFDoA	11.07	10.00	111		75	131
PFTTrDA	13.87	10.00	139		42	148
PFTeDA	12.40	10.00	124		42	158
NMeFOSAA	10.41	10.00	104		50	146
NEtFOSAA	10.46	10.00	105		51	131
PFBS	12.57	10.10	124		56	134
PFHxS	10.99	10.10	109		52	128
PFOS	10.66	10.00	107		40	144

#### Surrogate Recoveries (%)

13C4-PFBA	108
13C5-PFHxA	98
13C4-PFHpA	89
13C8-PFOA	96
13C9-PFNA	94
13C6-PFDA	103
13C7-PFUnA	109
13C2-PFDoA	98
13C2-PFTeDA	72
d3-MeFOSAA	130
d5-EtFOSAA	127
13C3-PFBS	110
13C3-PFHxS	116
13C8-PFOS	101



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project ID No.: 100112541

06GW08031718

06GW08031718

Battelle ID	Sample Type	Collection Date	Extraction Date	Analysis Date	Analytical Instrument	% Moisture	Matrix	Sample Size	Size Unit-Basis	Units	Target	Recovery	Qual	Control Limits	
														Lower	Upper
J5387-FS	SA	03/17/2018	03/22/2018	03/28/2018	Sciex 5500 LC/MS/MS	NA	GW	0.265	L	ng/L					
J5387MS-FS	MS	03/17/2018	03/22/2018	03/28/2018	Sciex 5500 LC/MS/MS	NA	GW	0.255	L	ng/L					
PFBA						0.47 U					39.38	39.22	100	61	139
PFHxA						0.47 U					33.01	39.61	83	51	137
PFHpA						0.47 U					35.08	39.22	89	48	136
PFOA						48.12					83.32	39.22	90	49	141
PFNA						0.43 J					30.44	39.22	77	58	122
PFDA						0.47 U					37.04	39.22	94	59	135
PFUnA						0.94 U					33.60	39.22	86	64	134
PFDoA						0.18 J					37.65	39.22	96	75	131
PFTeDA						0.22 J					49.62	39.22	126	42	148
PFTeDA						0.94 U					46.40	39.22	118	42	158
NMeFOSAA						2.36 U					33.58	39.22	86	50	146
NEtFOSAA						0.94 U					44.77	39.22	114	51	131
PFBS						35.26					74.14	39.61	98	56	134
PFHxS						0.47 U					48.00	39.61	121	52	128
PFOS						0.47 U					33.61	39.22	86	40	144

**Surrogate Recoveries (%)**

13C4-PFBA	117 D	102 D
13C5-PFHxA	55	65
13C4-PFHpA	108	89
13C8-PFOA	85	84
13C9-PFNA	77	87
13C6-PFDA	95	83
13C7-PFUnA	103	97
13C2-PFDoA	89	99
13C2-PFTeDA	71	72
d3-MeFOSAA	126	126
d5-EtFOSAA	126	98
13C3-PFBS	90	90
13C3-PFHxS	111	94
13C8-PFOS	94	89



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Charge ID No.: 100112541

06GW08031718

Battelle ID J5387MSD-FS  
 Sample Type MSD  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/28/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.260  
 Size Unit-Basis L

Units	ng/L	Target	Recovery	Qual	Control Limits		RPD	Qual	RPD Limit
					Lower	Upper			
PFBA	41.10	38.46	107		61	139	6.8		≤ 30
PFHxA	31.25	38.85	80		51	137	3.7		≤ 30
PFHpA	35.23	38.46	92		48	136	3.3		≤ 30
PFOA	83.99	38.46	93		49	141	3.3		≤ 30
PFNA	29.76	38.46	76		58	122	1.3		≤ 30
PFDA	36.78	38.46	96		59	135	2.1		≤ 30
PFUnA	33.14	38.46	86		64	134	0.0		≤ 30
PFDoA	35.46	38.46	92		75	131	4.3		≤ 30
PFTroA	46.11	38.46	119		42	148	5.7		≤ 30
PFTeDA	44.38	38.46	115		42	158	2.6		≤ 30
NMeFOSAA	32.75	38.46	85		50	146	1.2		≤ 30
NEtFOSAA	42.65	38.46	111		51	131	2.7		≤ 30
PFBS	70.34	38.85	90		56	134	8.5		≤ 30
PFHxS	43.26	38.85	111		52	128	8.6		≤ 30
PFOS	31.47	38.46	82		40	144	4.8		≤ 30

**Surrogate Recoveries (%)**

13C4-PFBA	102 D
13C5-PFHxA	54
13C4-PFHpA	97
13C8-PFOA	84
13C9-PFNA	88
13C6-PFDA	106
13C7-PFUnA	127
13C2-PFDoA	128
13C2-PFTeDA	98
d3-MeFOSAA	139
d5-EtFOSAA	117
13C3-PFBS	103
13C3-PFHxS	108
13C8-PFOS	109



## Glossary of Data Qualifiers

Flag: Application:

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B	Analyte found in the sample at a concentration <10x the level found in the procedural blank
D	Dilution Run. Initial run outside the initial calibration range of the instrument
E	Estimate, result is greater than the highest concentration level in the calibration
H	Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract.
J	Analyte detected below the Limit of Quantitation (LOQ)
ME	Significant Matrix Interference - Estimated value.
MI	Significant Matrix Interference - value could not be determined.
n	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets secondary criteria
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not Applicable
T	Holding Time (HT) exceeded
U	Analyte not detected or detected below the Method detection limit (MDL) value, Limit of Detection (LOD) reported



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW08031718			
Battelle ID	J5387-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.265			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.47 U	0.13	0.47	4.72
PFHxA	0.47 U	0.18	0.47	4.72
PFHpA	0.47 U	0.15	0.47	4.72
PFOA	48.12	0.17	0.47	4.72
PFNA	0.43 J	0.25	0.94	4.72
PFDA	0.47 U	0.15	0.47	4.72
PFUnA	0.94 U	0.27	0.94	4.72
PFDoA	0.18 J	0.17	0.47	4.72
PFTTrDA	0.22 J	0.14	0.47	4.72
PFTeDA	0.94 U	0.24	0.94	4.72
NMeFOSAA	2.36 U	0.53	2.36	4.72
NEtFOSAA	0.94 U	0.46	0.94	4.72
PFBS	35.26	0.12	0.47	4.72
PFHxS	0.47 U	0.10	0.47	4.72
PFOS	0.47 U	0.18	0.47	4.72

#### Surrogate Recoveries (%)

13C4-PFBA	117 D
13C5-PFHxA	55
13C4-PFHpA	108
13C8-PFOA	85
13C9-PFNA	77
13C6-PFDA	95
13C7-PFUnA	103
13C2-PFDoA	89
13C2-PFTeDA	71
d3-MeFOSAA	126
d5-EtFOSAA	126
13C3-PFBS	90
13C3-PFHxS	111
13C8-PFOS	94



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW09031718			
Battelle ID	J5388-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.270			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.46 U	0.13	0.46	4.63
PFHxA	1.12 J	0.18	0.46	4.63
PFHpA	0.46 U	0.15	0.46	4.63
PFOA	8.24	0.17	0.46	4.63
PFNA	0.32 J	0.24	0.93	4.63
PFDA	0.30 J	0.15	0.46	4.63
PFUnA	0.30 J	0.27	0.93	4.63
PFDoA	0.30 J	0.17	0.46	4.63
PFTeDA	0.16 J	0.14	0.46	4.63
PFTeDA	0.93 U	0.23	0.93	4.63
NMeFOSAA	2.31 U	0.52	2.31	4.63
NEtFOSAA	0.93 U	0.45	0.93	4.63
PFBS	1.15 J	0.12	0.46	4.63
PFHxS	10.96	0.10	0.46	4.63
PFOS	0.66 J	0.18	0.46	4.63

#### Surrogate Recoveries (%)

13C4-PFBA	136 D
13C5-PFHxA	100
13C4-PFHpA	85
13C8-PFOA	64
13C9-PFNA	64
13C6-PFDA	71
13C7-PFUnA	75
13C2-PFDoA	63
13C2-PFTeDA	67
d3-MeFOSAA	82
d5-EtFOSAA	73
13C3-PFBS	110
13C3-PFHxS	93
13C8-PFOS	85



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW04031718			
Battelle ID	J5389-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.275			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.45 U	0.13	0.45	4.55
PFHxA	1.68 J	0.17	0.45	4.55
PFHpA	0.45 U	0.15	0.45	4.55
PFOA	34.65	0.16	0.45	4.55
PFNA	0.36 J	0.24	0.91	4.55
PFDA	0.28 J	0.15	0.45	4.55
PFUnA	0.91 U	0.26	0.91	4.55
PFDoA	0.45 U	0.16	0.45	4.55
PFTTrDA	0.45 U	0.14	0.45	4.55
PFTeDA	0.91 U	0.23	0.91	4.55
NMeFOSAA	2.27 U	0.51	2.27	4.55
NEtFOSAA	0.91 U	0.45	0.91	4.55
PFBS	1.43 J	0.12	0.45	4.55
PFHxS	0.80 J	0.10	0.45	4.55
PFOS	3.86 J	0.17	0.45	4.55

#### Surrogate Recoveries (%)

13C4-PFBA	149 D
13C5-PFHxA	110
13C4-PFHpA	121
13C8-PFOA	87
13C9-PFNA	74
13C6-PFDA	108
13C7-PFUnA	128
13C2-PFDoA	106
13C2-PFTeDA	79
d3-MeFOSAA	139
d5-EtFOSAA	144
13C3-PFBS	130
13C3-PFHxS	132
13C8-PFOS	120





Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW16031718			
Battelle ID	J5390-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.265			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.47 U	0.13	0.47	4.72
PFHxA	0.33 J	0.18	0.47	4.72
PFHpA	0.47 U	0.15	0.47	4.72
PFOA	0.94 J	0.17	0.47	4.72
PFNA	0.94 U	0.25	0.94	4.72
PFDA	0.47 U	0.15	0.47	4.72
PFUnA	0.94 U	0.27	0.94	4.72
PFDoA	0.47 U	0.17	0.47	4.72
PFTTrDA	0.47 U	0.14	0.47	4.72
PFTeDA	0.94 U	0.24	0.94	4.72
NMeFOSAA	2.36 U	0.53	2.36	4.72
NEtFOSAA	0.94 U	0.46	0.94	4.72
PFBS	0.36 J	0.12	0.47	4.72
PFHxS	0.33 J	0.10	0.47	4.72
PFOS	1.47 J	0.18	0.47	4.72

#### Surrogate Recoveries (%)

13C4-PFBA	115 D
13C5-PFHxA	114
13C4-PFHpA	125
13C8-PFOA	109
13C9-PFNA	94
13C6-PFDA	97
13C7-PFUnA	109
13C2-PFDoA	85
13C2-PFTeDA	52
d3-MeFOSAA	144
d5-EtFOSAA	147
13C3-PFBS	135
13C3-PFHxS	115
13C8-PFOS	126



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW15031718			
Battelle ID	J5392-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.265			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	2.74 J	0.13	0.47	4.72
PFHxA	1.70 J	0.18	0.47	4.72
PFHpA	2.38 J	0.15	0.47	4.72
PFOA	4.50 J	0.17	0.47	4.72
PFNA	0.94 U	0.25	0.94	4.72
PFDA	0.47 U	0.15	0.47	4.72
PFUnA	0.94 U	0.27	0.94	4.72
PFDoA	0.47 U	0.17	0.47	4.72
PFTeDA	0.47 U	0.14	0.47	4.72
PFTeDA	0.94 U	0.24	0.94	4.72
NMeFOSAA	2.36 U	0.53	2.36	4.72
NEtFOSAA	0.94 U	0.46	0.94	4.72
PFBS	1.70 J	0.12	0.47	4.72
PFHxS	1.24 J	0.10	0.47	4.72
PFOS	2.51 J	0.18	0.47	4.72

#### Surrogate Recoveries (%)

13C4-PFBA	119 D
13C5-PFHxA	118
13C4-PFHpA	103
13C8-PFOA	90
13C9-PFNA	82
13C6-PFDA	88
13C7-PFUnA	95
13C2-PFDoA	66
13C2-PFTeDA	57
d3-MeFOSAA	89
d5-EtFOSAA	76
13C3-PFBS	132
13C3-PFHxS	107
13C8-PFOS	123



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW14031718			
Battelle ID	J5394-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.280			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.46 U	0.13	0.46	4.65
PFHxA	28.94	0.18	0.46	4.65
PFHpA	24.37	0.15	0.46	4.65
PFOA	718.50 D	4.02	11.16	111.61
PFNA	1.00 J	0.24	0.93	4.65
PFDA	0.46 U	0.15	0.46	4.65
PFUnA	0.93 U	0.27	0.93	4.65
PFDoA	0.46 U	0.17	0.46	4.65
PFTTrDA	0.46 U	0.14	0.46	4.65
PFTeDA	0.93 U	0.23	0.93	4.65
NMeFOSAA	2.32 U	0.52	2.32	4.65
NEtFOSAA	0.93 U	0.46	0.93	4.65
PFBS	7.83	0.12	0.46	4.65
PFHxS	7.73	0.10	0.46	4.65
PFOS	9.58	0.18	0.46	4.65

#### Surrogate Recoveries (%)

13C4-PFBA	138 D
13C5-PFHxA	54
13C4-PFHpA	51
13C8-PFOA	108 D
13C9-PFNA	102 D
13C6-PFDA	90
13C7-PFUnA	90
13C2-PFDoA	70
13C2-PFTeDA	56
d3-MeFOSAA	100
d5-EtFOSAA	79
13C3-PFBS	130
13C3-PFHxS	121
13C8-PFOS	106



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW06031718			
Battelle ID	J5395-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.270			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.46 U	0.13	0.46	4.63
PFHxA	19.81	0.18	0.46	4.63
PFHpA	18.17	0.15	0.46	4.63
PFOA	0.46 U	0.17	0.46	4.63
PFNA	0.93 U	0.24	0.93	4.63
PFDA	0.46 U	0.15	0.46	4.63
PFUnA	0.93 U	0.27	0.93	4.63
PFDoA	0.46 U	0.17	0.46	4.63
PFTrDA	0.46 U	0.14	0.46	4.63
PFTeDA	0.93 U	0.23	0.93	4.63
NMeFOSAA	2.31 U	0.52	2.31	4.63
NEtFOSAA	0.93 U	0.45	0.93	4.63
PFBS	3.28 J	0.12	0.46	4.63
PFHxS	6.71	0.10	0.46	4.63
PFOS	10.90	0.18	0.46	4.63

#### Surrogate Recoveries (%)

13C4-PFBA	113 D
13C5-PFHxA	81
13C4-PFHpA	102
13C8-PFOA	81
13C9-PFNA	70
13C6-PFDA	103
13C7-PFUnA	122
13C2-PFDoA	95
13C2-PFTeDA	62
d3-MeFOSAA	114
d5-EtFOSAA	80
13C3-PFBS	130
13C3-PFHxS	88
13C8-PFOS	87



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06GW03031718			
Battelle ID	J5396-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.280			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.45 U	0.13	0.45	4.46
PFHxA	7.90	0.17	0.45	4.46
PFHpA	5.64	0.14	0.45	4.46
PFOA	59.57	0.16	0.45	4.46
PFNA	0.42 J	0.23	0.89	4.46
PFDA	0.45 U	0.14	0.45	4.46
PFUnA	0.89 U	0.26	0.89	4.46
PFDoA	0.45 U	0.16	0.45	4.46
PFTeDA	0.45 U	0.13	0.45	4.46
PFTeDA	0.89 U	0.22	0.89	4.46
NMeFOSAA	2.23 U	0.50	2.23	4.46
NEtFOSAA	0.89 U	0.44	0.89	4.46
PFBS	2.78 J	0.12	0.45	4.46
PFHxS	4.09 J	0.10	0.45	4.46
PFOS	2.45 J	0.17	0.45	4.46

#### Surrogate Recoveries (%)

13C4-PFBA	124 D
13C5-PFHxA	111
13C4-PFHpA	90
13C8-PFOA	77
13C9-PFNA	64
13C6-PFDA	74
13C7-PFUnA	82
13C2-PFDoA	62
13C2-PFTeDA	55
d3-MeFOSAA	61
d5-EtFOSAA	64
13C3-PFBS	133
13C3-PFHxS	113
13C8-PFOS	114



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	06FDGW0318			
Battelle ID	J5397-FS			
Sample Type	SA			
Collection Date	03/17/2018			
Extraction Date	03/22/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	GW			
Sample Size	0.275			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.45 U	0.13	0.45	4.55
PFHxA	1.49 J	0.17	0.45	4.55
PFHpA	1.66 J	0.15	0.45	4.55
PFOA	38.48	0.16	0.45	4.55
PFNA	0.91 U	0.24	0.91	4.55
PFDA	0.45 U	0.15	0.45	4.55
PFUnA	0.91 U	0.26	0.91	4.55
PFDoA	0.45 U	0.16	0.45	4.55
PFTTrDA	0.45 U	0.14	0.45	4.55
PFTeDA	0.91 U	0.23	0.91	4.55
NMeFOSAA	2.27 U	0.51	2.27	4.55
NEtFOSAA	0.91 U	0.45	0.91	4.55
PFBS	1.42 J	0.12	0.45	4.55
PFHxS	0.39 J	0.10	0.45	4.55
PFOS	4.00 J	0.17	0.45	4.55

#### Surrogate Recoveries (%)

13C4-PFBA	130 D
13C5-PFHxA	123
13C4-PFHpA	102
13C8-PFOA	80
13C9-PFNA	75
13C6-PFDA	94
13C7-PFUnA	124
13C2-PFDoA	92
13C2-PFTeDA	84
d3-MeFOSAA	103
d5-EtFOSAA	120
13C3-PFBS	102
13C3-PFHxS	124
13C8-PFOS	107



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	JP83 IB			
Battelle ID	JP83 IB_03/28/2018			
Sample Type	IB			
Collection Date	NA			
Extraction Date	NA			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	Water			
Sample Size	0.250			
Size Unit-Basis	NA			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.20 J	0.14	0.50	5.00
PFHxA	1.08 J	0.19	0.50	5.00
PFHpA	1.26 J	0.16	0.50	5.00
PFOA	1.11 J	0.18	0.50	5.00
PFNA	1.03 J	0.26	1.00	5.00
PFDA	1.10 J	0.16	0.50	5.00
PFUnA	1.01 J	0.29	1.00	5.00
PFDoA	1.09 J	0.18	0.50	5.00
PFTrDA	1.05 J	0.15	0.50	5.00
PFTeDA	0.93 J	0.25	1.00	5.00
NMeFOSAA	1.05 J	0.56	2.50	5.00
NEtFOSAA	1.72 J	0.49	1.00	5.00
PFBS	0.95 J	0.13	0.50	5.00
PFHxS	1.00 J	0.11	0.50	5.00
PFOS	1.13 J	0.19	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	104
13C5-PFHxA	87
13C4-PFHpA	93
13C8-PFOA	100
13C9-PFNA	97
13C6-PFDA	101
13C7-PFUnA	100
13C2-PFDoA	95
13C2-PFTeDA	89
d3-MeFOSAA	112
d5-EtFOSAA	93
13C3-PFBS	101
13C3-PFHxS	110
13C8-PFOS	92



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	Procedural Blank			
Battelle ID	CQ320PB-FS			
Sample Type	PB			
Collection Date	03/22/2018			
Extraction Date	03/22/2018			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	WATER			
Sample Size	0.250			
Size Unit-Basis	L			
Units	ng/L	MDL	LOD	LOQ
PFBA	0.28 J	0.14	0.50	5.00
PFHxA	0.50 U	0.19	0.50	5.00
PFHpA	0.50 U	0.16	0.50	5.00
PFOA	0.22 J	0.18	0.50	5.00
PFNA	1.00 U	0.26	1.00	5.00
PFDA	0.50 U	0.16	0.50	5.00
PFUnA	1.00 U	0.29	1.00	5.00
PFDoA	0.50 U	0.18	0.50	5.00
PFTeDA	0.50 U	0.15	0.50	5.00
PFTeDA	1.00 U	0.25	1.00	5.00
NMeFOSAA	2.50 U	0.56	2.50	5.00
NEtFOSAA	1.00 U	0.49	1.00	5.00
PFBS	0.50 U	0.13	0.50	5.00
PFHxS	0.50 U	0.11	0.50	5.00
PFOS	0.50 U	0.19	0.50	5.00

#### Surrogate Recoveries (%)

13C4-PFBA	111
13C5-PFHxA	103
13C4-PFHpA	93
13C8-PFOA	99
13C9-PFNA	99
13C6-PFDA	95
13C7-PFUnA	114
13C2-PFDoA	84
13C2-PFTeDA	54
d3-MeFOSAA	99
d5-EtFOSAA	115
13C3-PFBS	123
13C3-PFHxS	105
13C8-PFOS	119





Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project No.: 100112541

Client ID	Laboratory Control Sample					
Battelle ID	CQ321LCS-FS					
Sample Type	LCS					
Collection Date	03/22/2018					
Extraction Date	03/22/2018					
Analysis Date	03/28/2018					
Analytical Instrument	Sciex 5500 LC/MS/MS					
% Moisture	NA					
Matrix	WATER					
Sample Size	0.250					
Size Unit-Basis	L					
Units	ng/L	Target	Recovery	Qual	Control Limits	
					Lower	Upper
PFBA	12.65	10.00	127		61	139
PFHxA	10.67	10.10	106		51	137
PFHpA	9.40	10.00	94		48	136
PFOA	10.03	10.00	100		49	141
PFNA	10.22	10.00	102		58	122
PFDA	11.55	10.00	116		59	135
PFUnA	10.26	10.00	103		64	134
PFDoA	11.07	10.00	111		75	131
PFTTrDA	13.87	10.00	139		42	148
PFTeDA	12.40	10.00	124		42	158
NMeFOSAA	10.41	10.00	104		50	146
NEtFOSAA	10.46	10.00	105		51	131
PFBS	12.57	10.10	124		56	134
PFHxS	10.99	10.10	109		52	128
PFOS	10.66	10.00	107		40	144

#### Surrogate Recoveries (%)

13C4-PFBA	108
13C5-PFHxA	98
13C4-PFHpA	89
13C8-PFOA	96
13C9-PFNA	94
13C6-PFDA	103
13C7-PFUnA	109
13C2-PFDoA	98
13C2-PFTeDA	72
d3-MeFOSAA	130
d5-EtFOSAA	127
13C3-PFBS	110
13C3-PFHxS	116
13C8-PFOS	101



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project ID No.: 100112541

06GW08031718

06GW08031718

Battelle ID	J5387-FS		J5387MS-FS				
	Sample Type	SA	MS				
Collection Date	03/17/2018		03/17/2018				
Extraction Date	03/22/2018		03/22/2018				
Analysis Date	03/28/2018		03/28/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS		Sciex 5500 LC/MS/MS				
% Moisture	NA		NA				
Matrix	GW		GW				
Sample Size	0.265		0.255				
Size Unit-Basis	L		L				Control Limits
Units	ng/L		ng/L	Target	Recovery	Qual	Lower Upper
PFBA	0.47 U	39.38	39.22	100	61	139	
PFHxA	0.47 U	33.01	39.61	83	51	137	
PFHpA	0.47 U	35.08	39.22	89	48	136	
PFOA	48.12	83.32	39.22	90	49	141	
PFNA	0.43 J	30.44	39.22	77	58	122	
PFDA	0.47 U	37.04	39.22	94	59	135	
PFUnA	0.94 U	33.60	39.22	86	64	134	
PFDoA	0.18 J	37.65	39.22	96	75	131	
PFTeDA	0.22 J	49.62	39.22	126	42	148	
PFTeDA	0.94 U	46.40	39.22	118	42	158	
NMeFOSAA	2.36 U	33.58	39.22	86	50	146	
NEtFOSAA	0.94 U	44.77	39.22	114	51	131	
PFBS	35.26	74.14	39.61	98	56	134	
PFHxS	0.47 U	48.00	39.61	121	52	128	
PFOS	0.47 U	33.61	39.22	86	40	144	

**Surrogate Recoveries (%)**

13C4-PFBA	117 D	102 D				
13C5-PFHxA	55	65				
13C4-PFHpA	108	89				
13C8-PFOA	85	84				
13C9-PFNA	77	87				
13C6-PFDA	95	83				
13C7-PFUnA	103	97				
13C2-PFDoA	89	99				
13C2-PFTeDA	71	72				
d3-MeFOSAA	126	126				
d5-EtFOSAA	126	98				
13C3-PFBS	90	90				
13C3-PFHxS	111	94				
13C8-PFOS	94	89				



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Charge ID No.: 100112541

06GW08031718

Battelle ID J5387MSD-FS  
 Sample Type MSD  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/28/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.260  
 Size Unit-Basis L

Units	ng/L	Target	Recovery	Qual	Control Limits		RPD	Qual	RPD Limit
					Lower	Upper			
PFBA	41.10	38.46	107		61	139	6.8		≤ 30
PFHxA	31.25	38.85	80		51	137	3.7		≤ 30
PFHpA	35.23	38.46	92		48	136	3.3		≤ 30
PFOA	83.99	38.46	93		49	141	3.3		≤ 30
PFNA	29.76	38.46	76		58	122	1.3		≤ 30
PFDA	36.78	38.46	96		59	135	2.1		≤ 30
PFUnA	33.14	38.46	86		64	134	0.0		≤ 30
PFDoA	35.46	38.46	92		75	131	4.3		≤ 30
PFTrDA	46.11	38.46	119		42	148	5.7		≤ 30
PFTeDA	44.38	38.46	115		42	158	2.6		≤ 30
NMeFOSAA	32.75	38.46	85		50	146	1.2		≤ 30
NEtFOSAA	42.65	38.46	111		51	131	2.7		≤ 30
PFBS	70.34	38.85	90		56	134	8.5		≤ 30
PFHxS	43.26	38.85	111		52	128	8.6		≤ 30
PFOS	31.47	38.46	82		40	144	4.8		≤ 30

**Surrogate Recoveries (%)**

13C4-PFBA	102 D
13C5-PFHxA	54
13C4-PFHpA	97
13C8-PFOA	84
13C9-PFNA	88
13C6-PFDA	106
13C7-PFUnA	127
13C2-PFDoA	128
13C2-PFTeDA	98
d3-MeFOSAA	139
d5-EtFOSAA	117
13C3-PFBS	103
13C3-PFHxS	108
13C8-PFOS	109



## Glossary of Data Qualifiers

Flag:      Application:

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B	Analyte found in the sample at a concentration <10x the level found in the procedural blank
D	Dilution Run. Initial run outside the initial calibration range of the instrument
E	Estimate, result is greater than the highest concentration level in the calibration
H	Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract.
J	Analyte detected below the Limit of Quantitation (LOQ)
ME	Significant Matrix Interference - Estimated value.
MI	Significant Matrix Interference - value could not be determined.
n	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets secondary criteria
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not Applicable
T	Holding Time (HT) exceeded
U	Analyte not detected or detected below the Method detection limit (MDL) value, Limit of Detection (LOD) reported

**Analyte:** PFBS\_1 (298.9 / 80.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

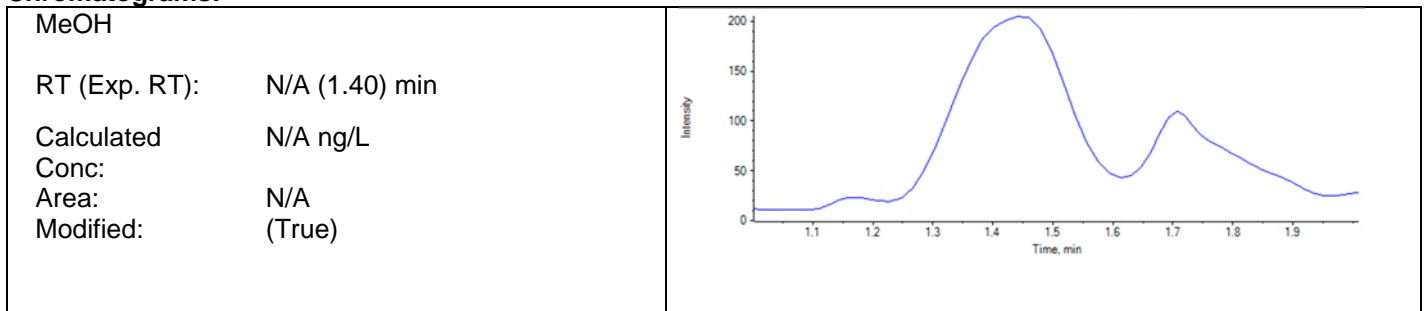
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	7067	1.44	7624	25.25000	23.133236	92
JU05	Standard	3/28/2018 7:57:43 PM	9164	1.45	5397	50.50000	55.886592	111
JU06	Standard	3/28/2018 8:08:31 PM	17380	1.44	7137	101.00000	87.163084	86
JU07	Standard	3/28/2018 8:19:19 PM	47000	1.44	8127	252.50000	229.381129	91
JU08	Standard	3/28/2018 8:30:06 PM	80600	1.44	6981	505.00000	474.110294	94
JU09	Standard	3/28/2018 8:40:53 PM	171900	1.44	6174	1010.00000	1166.027800	115
JU10	Standard	3/28/2018 8:51:40 PM	407900	1.44	6280	2525.00000	2741.992350	109
JU11	Standard	3/28/2018 9:02:26 PM	1893000	1.44	7335	10100.00000	10943.205444	108
JU12	Standard	3/28/2018 9:13:13 PM	5352000	1.43	11920	20200.00000	19048.350072	94
JP83 IB	Unknown	3/28/2018 9:23:58 PM	20480	1.45	7792	N/A	95.420106	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	158200	1.44	5272	1010.00000	1257.837991	125
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	6302	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	9613	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	581800	1.43	7825	N/A	3141.399150	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	780700	1.45	3542	N/A	9345.151850	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1610000	1.42	3615	N/A	18905.421746	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1707000	1.42	3960	N/A	18287.474855	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	66640	1.43	8645	N/A	311.142877	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	53170	1.44	5512	N/A	393.438881	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	21380	1.43	8134	N/A	95.367008	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	252200	1.42	9332	1010.00000	1131.720862	112
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	95810	1.43	8740	N/A	449.292866	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	411400	1.43	8240	N/A	2104.379127	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>9855</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	150900	1.46	7095	N/A	886.902703	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	168500	1.43	8998	N/A	778.875211	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	68370	1.42	7129	N/A	391.103499	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	587600	1.42	8791	2525.00000	2822.659354	112

Dilution not needed. DMS 4/4/2018

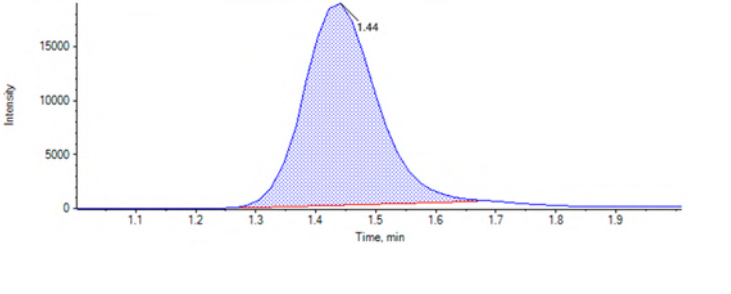
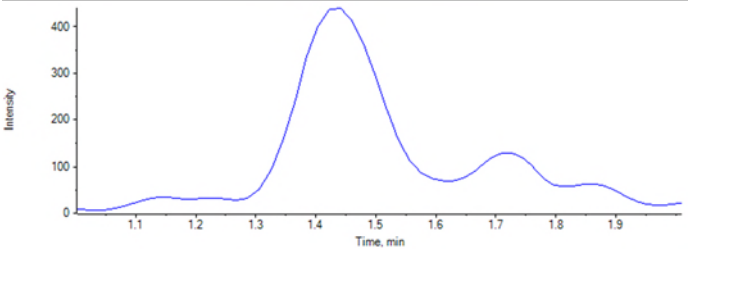
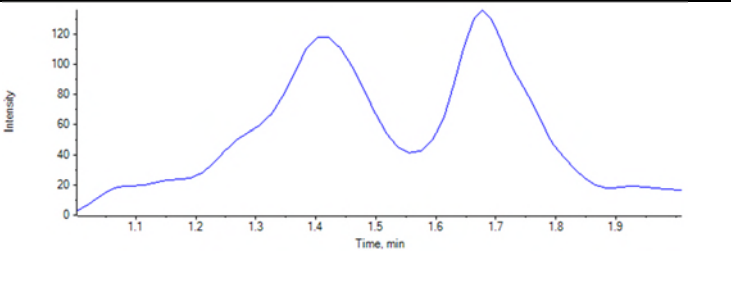
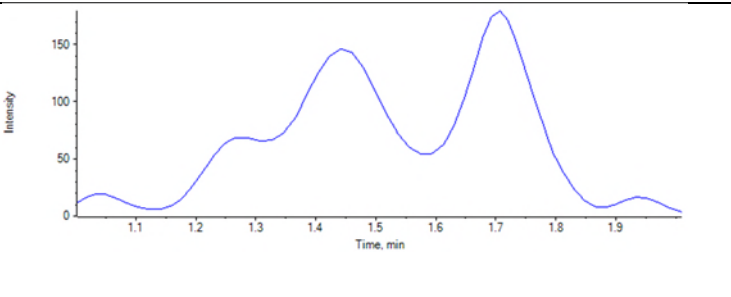
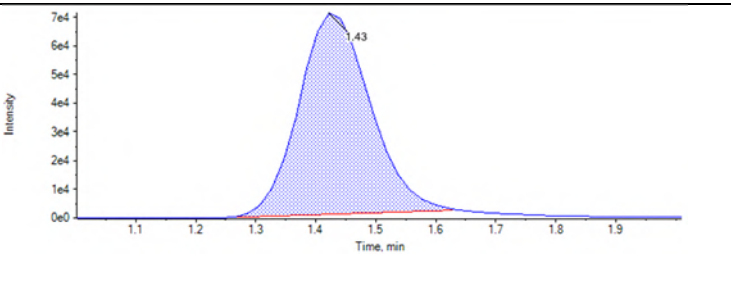
**Chromatograms:**



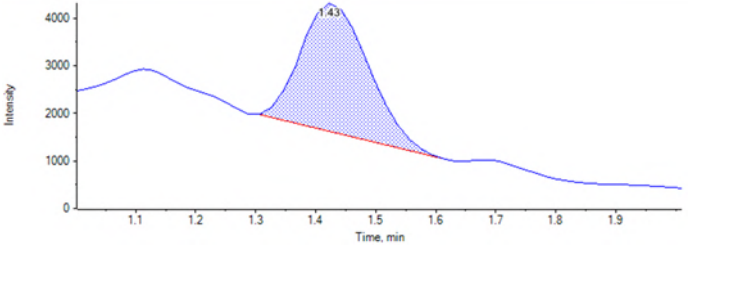
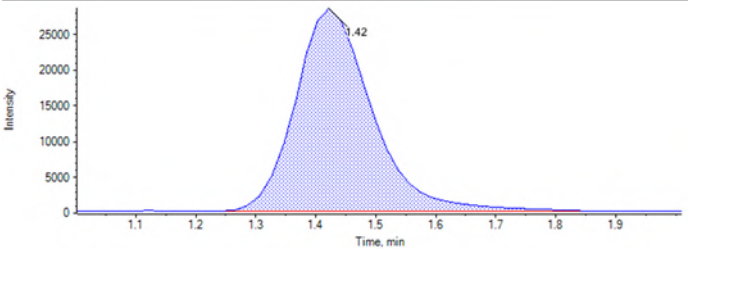
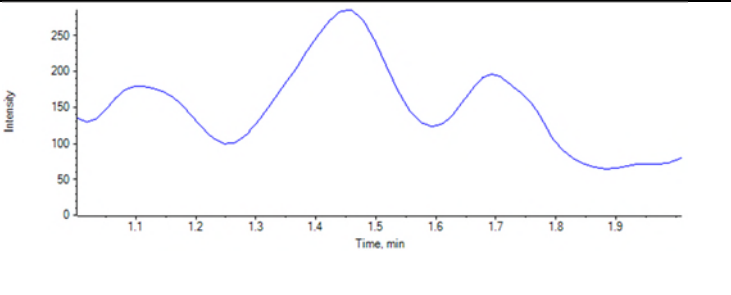
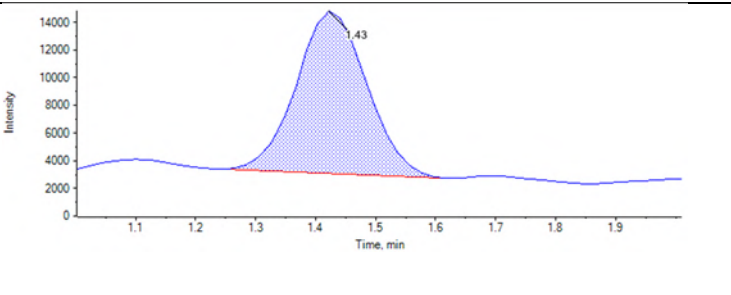
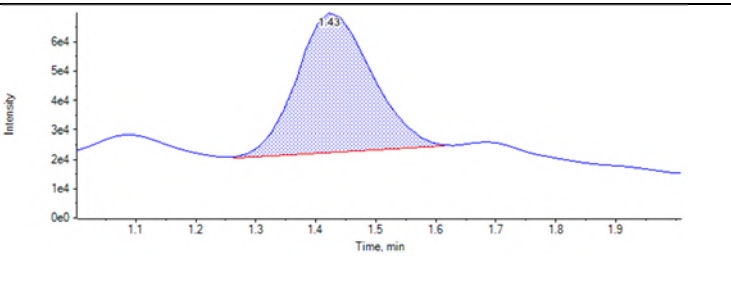
<p>JU04</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 23.133236 ng/L</p> <p>Area: 7.067e3</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.45 (1.40) min</p> <p>Calculated Conc: 55.886592 ng/L</p> <p>Area: 9.164e3</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 87.163084 ng/L</p> <p>Area: 1.738e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 229.381129 ng/L</p> <p>Area: 4.700e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 474.110294 ng/L</p> <p>Area: 8.060e4</p> <p>Modified: (False)</p>	

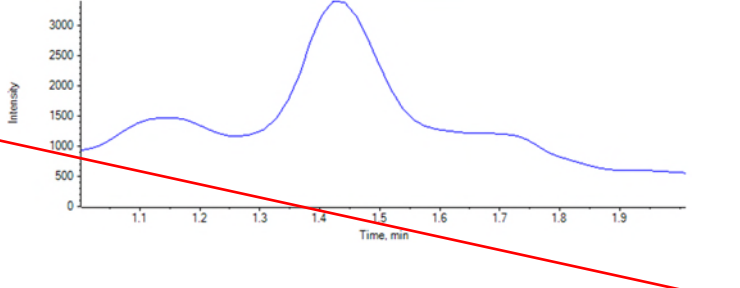
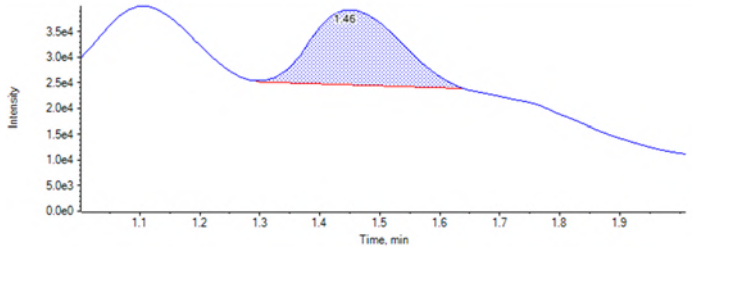
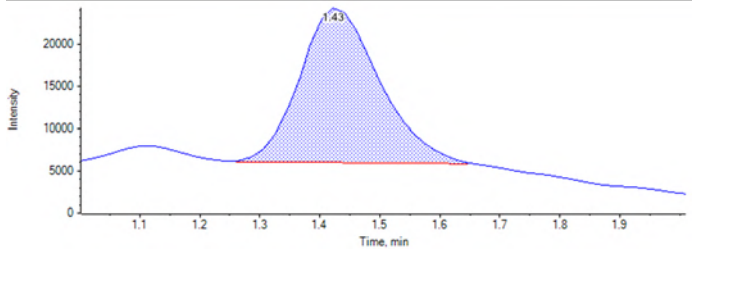
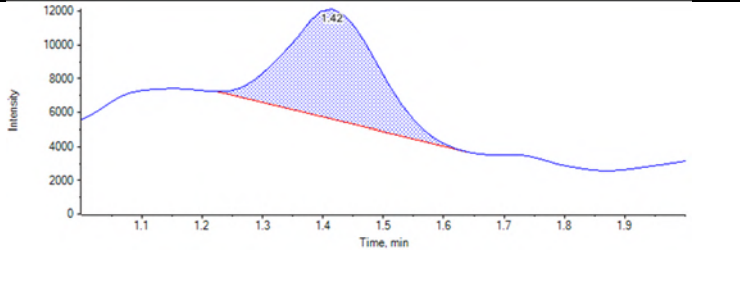
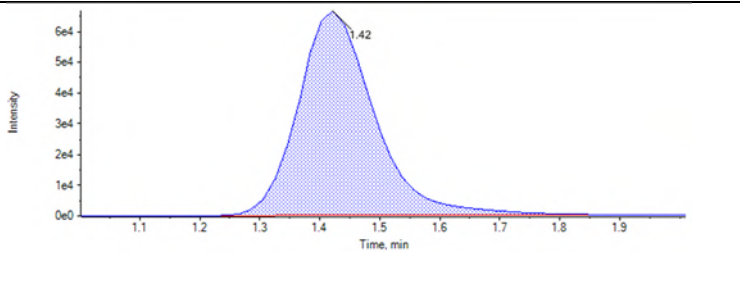
<p>JU09</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 1166.027800 ng/L</p> <p>Area: 1.719e5</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 2741.992350 ng/L</p> <p>Area: 4.079e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 10943.205444 ng/L</p> <p>Area: 1.893e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 19048.350072 ng/L</p> <p>Area: 5.352e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.45 (1.40) min</p> <p>Calculated Conc: 95.420106 ng/L</p> <p>Area: 2.048e4</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 1257.837991 ng/L</p> <p>Area: 1.582e5</p> <p>Modified: (True)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 3141.399150 ng/L</p> <p>Area: 5.818e5</p> <p>Modified: (True)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 1.45 (1.40) min</p> <p>Calculated Conc: 9345.151850 ng/L</p> <p>Area: 7.807e5</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 18905.421746 ng/L</p> <p>Area: 1.610e6</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 18287.474855 ng/L</p> <p>Area: 1.707e6</p> <p>Modified: (True)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 311.142877 ng/L</p> <p>Area: 6.664e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 393.438881 ng/L</p> <p>Area: 5.317e4</p> <p>Modified: (True)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 95.367008 ng/L</p> <p>Area: 2.138e4</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 1131.720862 ng/L</p> <p>Area: 2.522e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 449.292866 ng/L</p> <p>Area: 9.581e4</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 2104.379127 ng/L</p> <p>Area: 4.114e5</p> <p>Modified: (True)</p>	

<p><del>J5394-FS-D(5)</del></p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 1.46 (1.40) min</p> <p>Calculated Conc: 886.902703 ng/L</p> <p>Area: 1.509e5</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 778.875211 ng/L</p> <p>Area: 1.685e5</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 391.103499 ng/L</p> <p>Area: 6.837e4</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 2822.659354 ng/L</p> <p>Area: 5.876e5</p> <p>Modified: (False)</p>	

**Analyte:** PFBS\_2 (298.9 / 99.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	2476	1.45	7624	25.25000	22.827342	90
JU05	Standard	3/28/2018 7:57:43 PM	3028	1.44	5397	50.50000	54.920579	109
JU06	Standard	3/28/2018 8:08:31 PM	6129	1.44	7137	101.00000	95.348578	94
JU07	Standard	3/28/2018 8:19:19 PM	15190	1.44	8127	252.50000	232.612471	92
JU08	Standard	3/28/2018 8:30:06 PM	24160	1.44	6981	505.00000	448.640793	89
JU09	Standard	3/28/2018 8:40:53 PM	54390	1.43	6174	1010.00000	1174.990896	116
JU10	Standard	3/28/2018 8:51:40 PM	124800	1.44	6280	2525.00000	2677.209151	106
JU11	Standard	3/28/2018 9:02:26 PM	593400	1.44	7335	10100.00000	10965.358307	109
JU12	Standard	3/28/2018 9:13:13 PM	1679000	1.43	11920	20200.00000	19097.341882	95
JP83 IB	Unknown	3/28/2018 9:23:58 PM	6815	1.45	7792	N/A	97.491492	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	50690	1.44	5272	1010.00000	1284.502581	127
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	6302	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	1035	1.43	9613	N/A	< 0	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	186500	1.43	7825	N/A	3215.445009	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	29070	1.44	3542	N/A	1093.439452	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	340900	1.40	3615	N/A	12787.443950	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	364100	1.40	3960	N/A	12465.046260	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	22380	1.43	8645	N/A	330.342657	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	4634	1.44	5512	N/A	92.902015	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	5997	1.43	8134	N/A	78.831128	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	81780	1.42	9332	1010.00000	1168.897379	116
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	27690	1.43	8740	N/A	408.953049	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	108700	1.42	8240	N/A	1770.370560	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	9855	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	31080	1.42	7095	N/A	573.683844	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	41890	1.42	8998	N/A	610.949885	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	3848	1.41	7129	N/A	52.022389	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	187400	1.42	8791	2525.00000	2873.933340	114

**Chromatograms:**

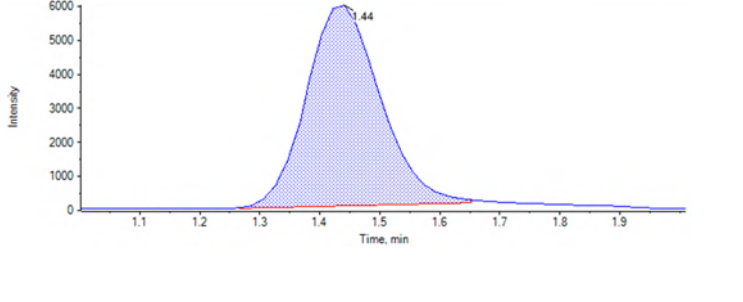
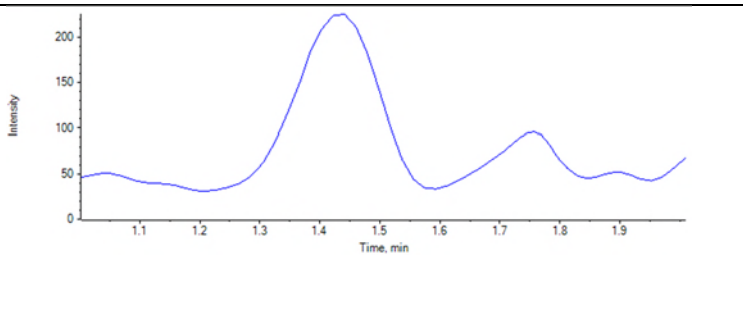
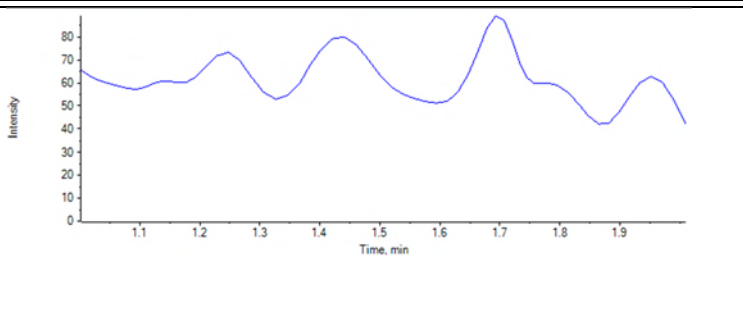
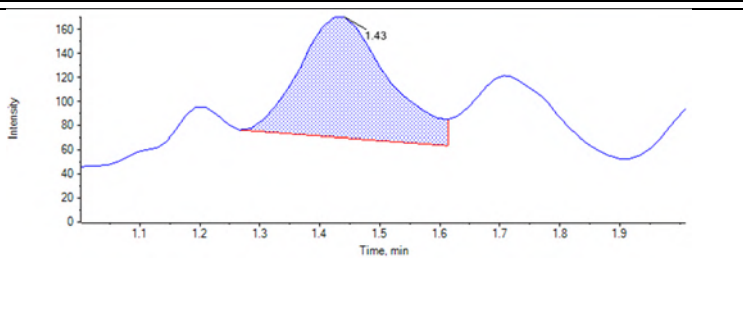
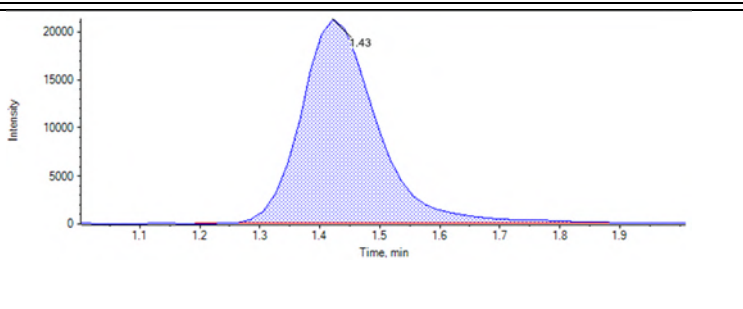
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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<p>JU04</p> <p>RT (Exp. RT): 1.45 (1.40) min</p> <p>Calculated Conc: 22.827342 ng/L</p> <p>Area: 2.476e3</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 54.920579 ng/L</p> <p>Area: 3.028e3</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 95.348578 ng/L</p> <p>Area: 6.129e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 232.612471 ng/L</p> <p>Area: 1.519e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 448.640793 ng/L</p> <p>Area: 2.416e4</p> <p>Modified: (False)</p>	

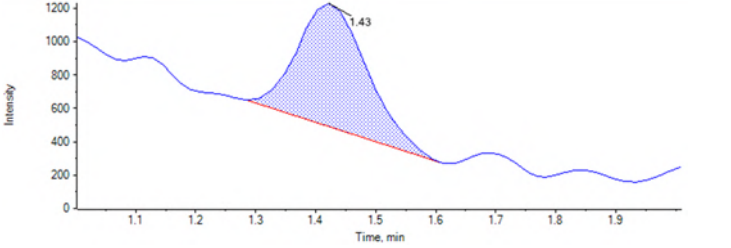
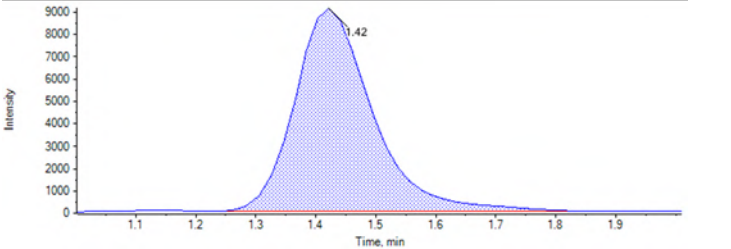
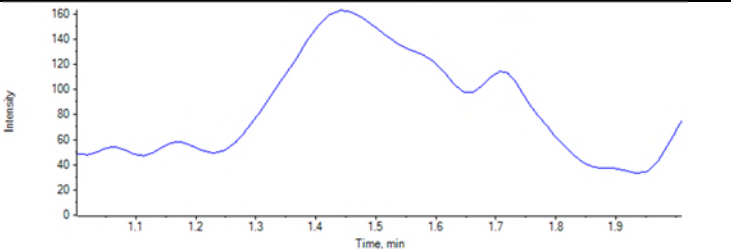
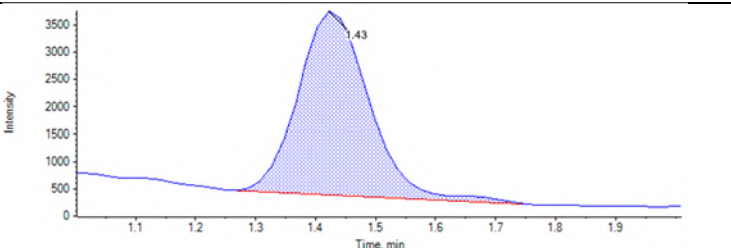
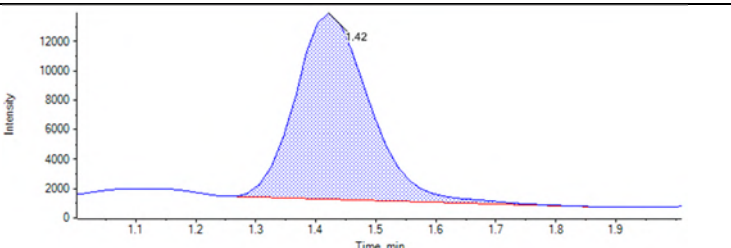


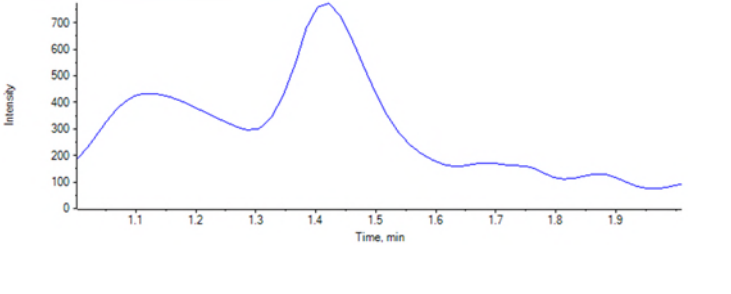
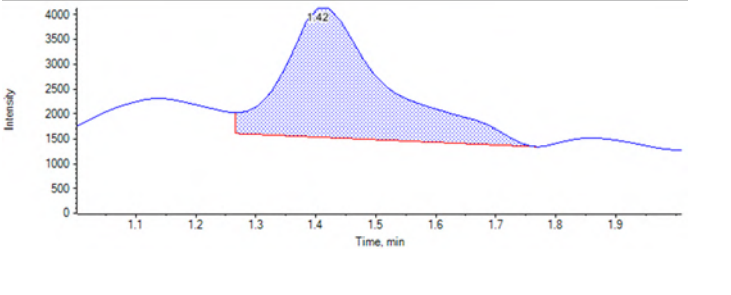
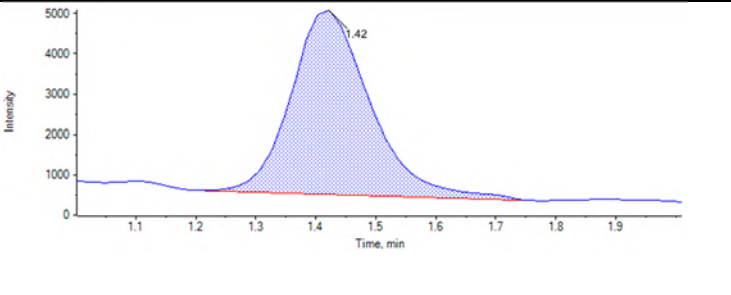
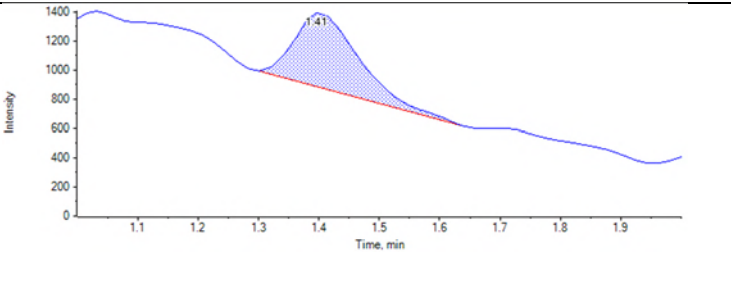
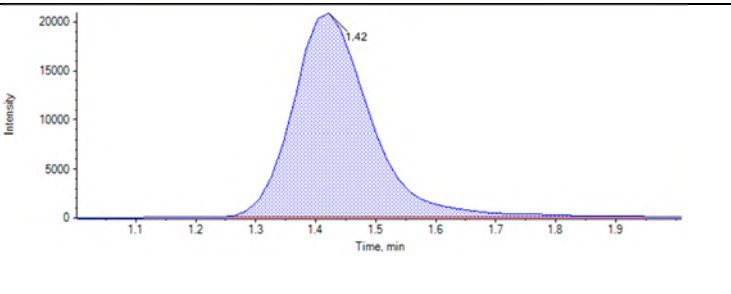
<p>JU09</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 1174.990896 ng/L</p> <p>Area: 5.439e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 2677.209151 ng/L</p> <p>Area: 1.248e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 10965.358307 ng/L</p> <p>Area: 5.934e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 19097.341882 ng/L</p> <p>Area: 1.679e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.45 (1.40) min</p> <p>Calculated Conc: 97.491492 ng/L</p> <p>Area: 6.815e3</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 1284.502581 ng/L</p> <p>Area: 5.069e4</p> <p>Modified: (True)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.035e3</p> <p>Modified: (False)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 3215.445009 ng/L</p> <p>Area: 1.865e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 1093.439452 ng/L</p> <p>Area: 2.907e4</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 1.40 (1.40) min</p> <p>Calculated Conc: 12787.443950 ng/L</p> <p>Area: 3.409e5</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 1.40 (1.40) min</p> <p>Calculated Conc: 12465.046260 ng/L</p> <p>Area: 3.641e5</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 330.342657 ng/L</p> <p>Area: 2.238e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 92.902015 ng/L</p> <p>Area: 4.634e3</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 78.831128 ng/L</p> <p>Area: 5.997e3</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 1168.897379 ng/L</p> <p>Area: 8.178e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 408.953049 ng/L</p> <p>Area: 2.769e4</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 1770.370560 ng/L</p> <p>Area: 1.087e5</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min). The y-axis ranges from 0 to 700. The x-axis ranges from 1.1 to 1.9. A peak is visible at approximately 1.4 minutes.</p>
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 573.683844 ng/L</p> <p>Area: 3.108e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min). The y-axis ranges from 0 to 4000. The x-axis ranges from 1.1 to 1.9. A peak is labeled at 1.42 minutes.</p>
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 610.949885 ng/L</p> <p>Area: 4.189e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min). The y-axis ranges from 0 to 5000. The x-axis ranges from 1.1 to 1.9. A peak is labeled at 1.42 minutes.</p>
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 1.41 (1.40) min</p> <p>Calculated Conc: 52.022389 ng/L</p> <p>Area: 3.848e3</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min). The y-axis ranges from 0 to 1400. The x-axis ranges from 1.1 to 1.9. A peak is labeled at 1.41 minutes.</p>
<p>JU10 CCV</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 2873.933340 ng/L</p> <p>Area: 1.874e5</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min). The y-axis ranges from 0 to 20000. The x-axis ranges from 1.1 to 1.9. A peak is labeled at 1.42 minutes.</p>

**Analyte:** PFHxA\_1 (313.0 / 269.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

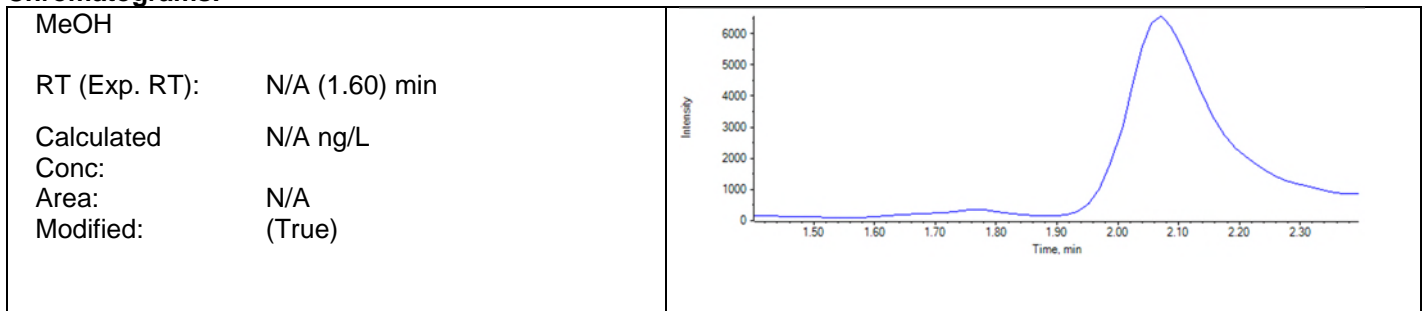
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	7519	1.72	26380	25.25000	29.323363	116
JU05	Standard	3/28/2018 7:57:43 PM	10560	1.72	20490	50.50000	54.845712	109
JU06	Standard	3/28/2018 8:08:31 PM	20920	1.72	22020	101.00000	103.073511	102
JU07	Standard	3/28/2018 8:19:19 PM	52000	1.71	23110	252.50000	247.279848	98
JU08	Standard	3/28/2018 8:30:06 PM	89040	1.71	23570	505.00000	416.678143	83
JU09	Standard	3/28/2018 8:40:53 PM	195500	1.71	23600	1010.00000	916.426719	91
JU10	Standard	3/28/2018 8:51:40 PM	481100	1.71	21960	2525.00000	2427.864390	96
JU11	Standard	3/28/2018 9:02:26 PM	2237000	1.71	22520	10100.00000	11013.601074	109
JU12	Standard	3/28/2018 9:13:13 PM	6149000	1.70	34860	20200.00000	19560.157239	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	24050	1.72	24230	N/A	107.804579	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	188900	1.71	20340	1010.00000	1027.676684	102
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	25490	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	28710	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	642200	1.71	26680	N/A	2666.972250	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	7903	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	592400	1.67	7804	N/A	8416.887747	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	680000	1.67	9280	N/A	8124.381611	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	76610	1.70	27880	N/A	302.476811	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	91430	1.70	21900	N/A	460.862254	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	25170	1.70	31110	N/A	87.436032	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	294800	1.70	34120	1010.00000	956.025217	95
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	105700	1.70	25840	N/A	451.568125	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	2294000	1.70	32700	N/A	7780.631221	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>33950</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	834900	1.69	17300	N/A	5349.342042	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	562600	1.70	28190	N/A	2211.471198	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	131300	1.68	35380	N/A	409.415104	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	723300	1.70	33030	2525.00000	2426.640285	96

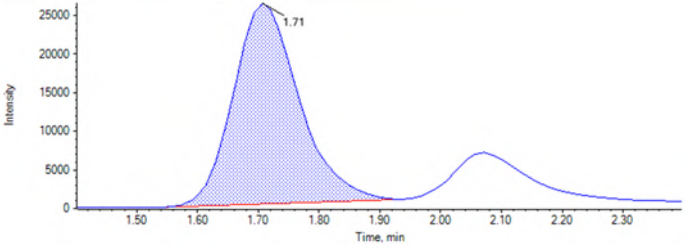
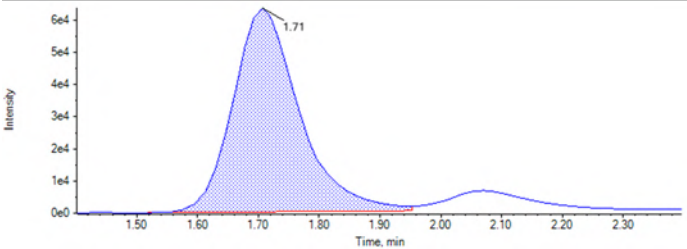
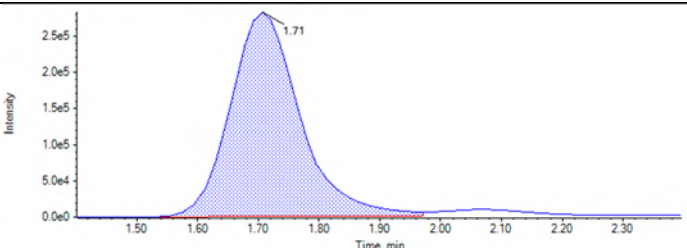
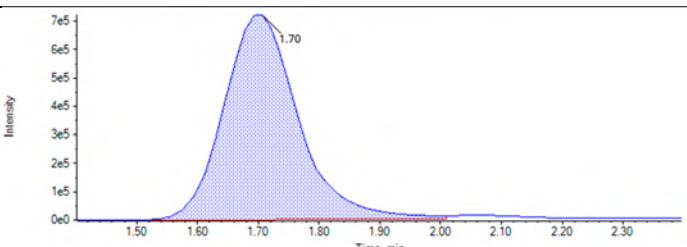
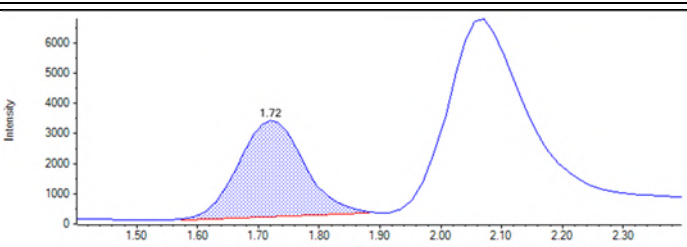
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**Chromatograms:**

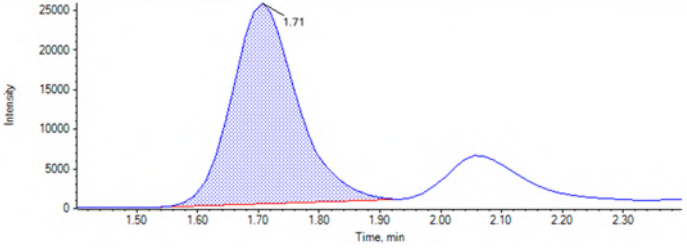
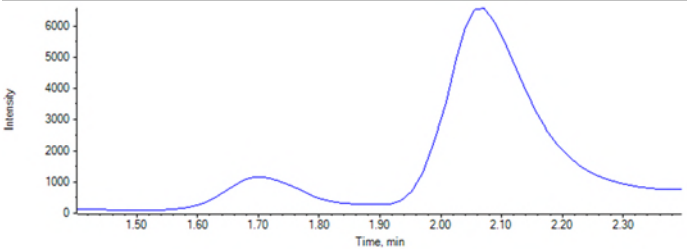
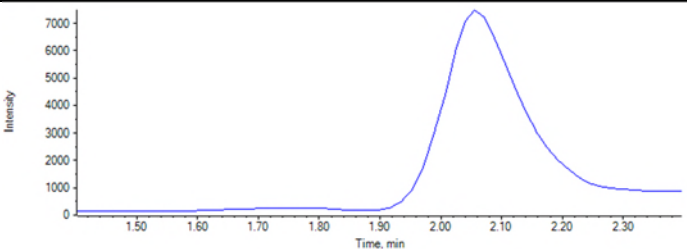
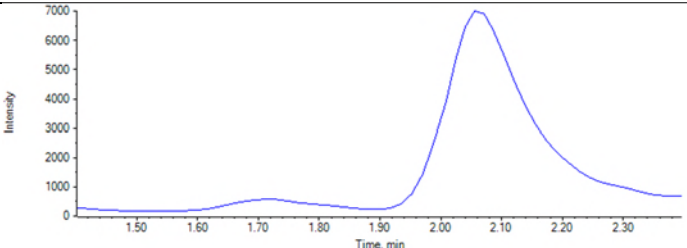
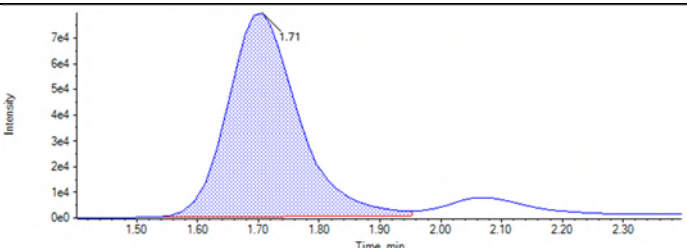


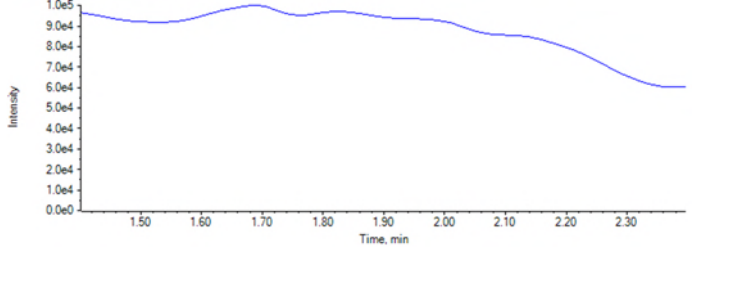
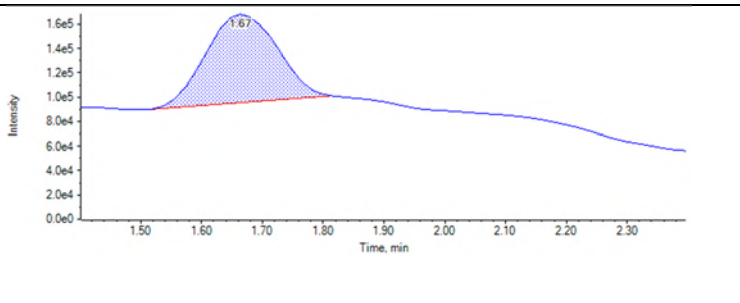
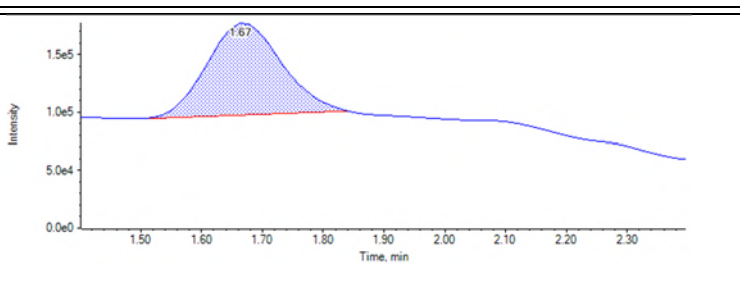
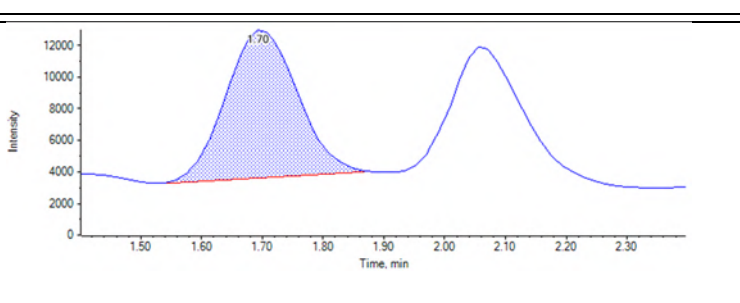
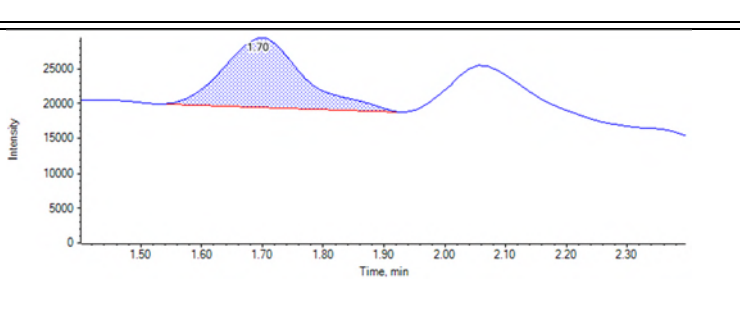
<p>JU04</p> <p>RT (Exp. RT): 1.72 (1.60) min</p> <p>Calculated Conc: 29.323363 ng/L</p> <p>Area: 7.519e3</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.72 (1.60) min</p> <p>Calculated Conc: 54.845712 ng/L</p> <p>Area: 1.056e4</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.72 (1.60) min</p> <p>Calculated Conc: 103.073511 ng/L</p> <p>Area: 2.092e4</p> <p>Modified: (True)</p>	
<p>JU07</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 247.279848 ng/L</p> <p>Area: 5.200e4</p> <p>Modified: (True)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 416.678143 ng/L</p> <p>Area: 8.904e4</p> <p>Modified: (False)</p>	

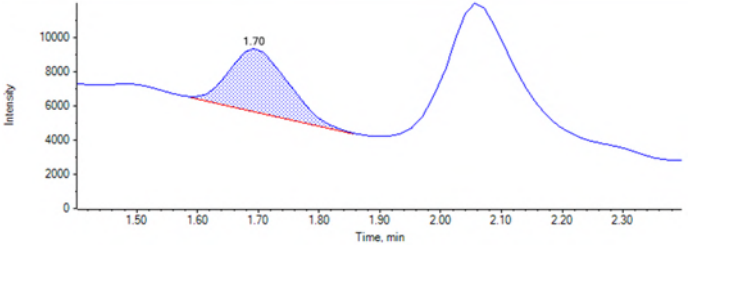
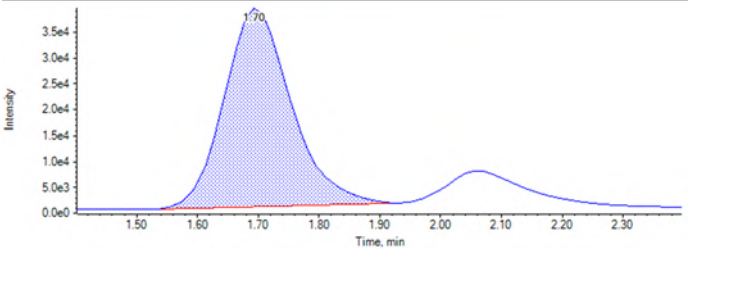
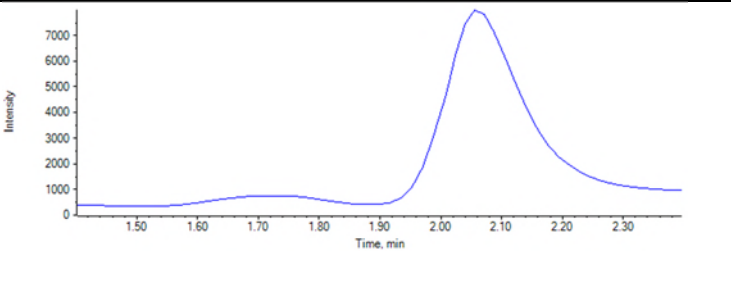
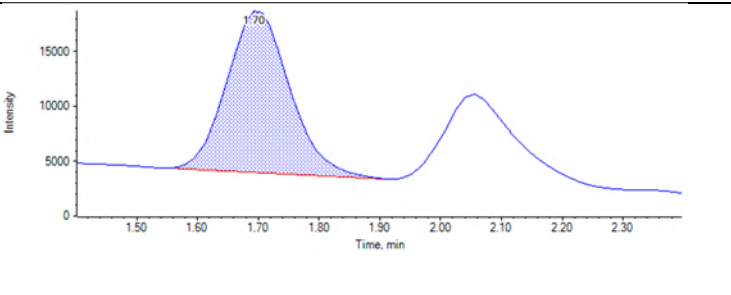
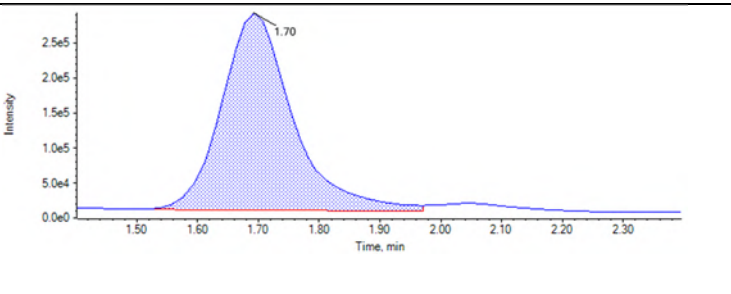


<p>JU09</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 916.426719 ng/L</p> <p>Area: 1.955e5</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 2427.864390 ng/L</p> <p>Area: 4.811e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 11013.601074 ng/L</p> <p>Area: 2.237e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 19560.157239 ng/L</p> <p>Area: 6.149e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.72 (1.60) min</p> <p>Calculated Conc: 107.804579 ng/L</p> <p>Area: 2.405e4</p> <p>Modified: (True)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 1027.676684 ng/L</p> <p>Area: 1.889e5</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 2666.972250 ng/L</p> <p>Area: 6.422e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity vs time (min) with a peak at 1.67 min. The y-axis ranges from 0.0e0 to 1.0e5. The x-axis ranges from 1.50 to 2.30 min.</p>
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 1.67 (1.60) min</p> <p>Calculated Conc: 8416.887747 ng/L</p> <p>Area: 5.924e5</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity vs time (min) with a peak at 1.67 min. The y-axis ranges from 0.0e0 to 1.6e5. The x-axis ranges from 1.50 to 2.30 min.</p>
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 1.67 (1.60) min</p> <p>Calculated Conc: 8124.381611 ng/L</p> <p>Area: 6.800e5</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity vs time (min) with a peak at 1.67 min. The y-axis ranges from 0.0e0 to 1.5e5. The x-axis ranges from 1.50 to 2.30 min.</p>
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 302.476811 ng/L</p> <p>Area: 7.661e4</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity vs time (min) with peaks at 1.70 and 2.05 min. The y-axis ranges from 0 to 12000. The x-axis ranges from 1.50 to 2.30 min.</p>
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 460.862254 ng/L</p> <p>Area: 9.143e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity vs time (min) with peaks at 1.70 and 2.05 min. The y-axis ranges from 0 to 25000. The x-axis ranges from 1.50 to 2.30 min.</p>

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 87.436032 ng/L</p> <p>Area: 2.517e4</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 956.025217 ng/L</p> <p>Area: 2.948e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 451.568125 ng/L</p> <p>Area: 1.057e5</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 7780.631221 ng/L</p> <p>Area: 2.294e6</p> <p>Modified: (False)</p>	

<p><del>J5394-FS-D(5)</del></p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 1.69 (1.60) min</p> <p>Calculated Conc: 5349.342042 ng/L</p> <p>Area: 8.349e5</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 2211.471198 ng/L</p> <p>Area: 5.626e5</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 1.68 (1.60) min</p> <p>Calculated Conc: 409.415104 ng/L</p> <p>Area: 1.313e5</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 2426.640285 ng/L</p> <p>Area: 7.233e5</p> <p>Modified: (False)</p>	

**Analyte:** PFHxA\_2 (313.0 / 119.0)

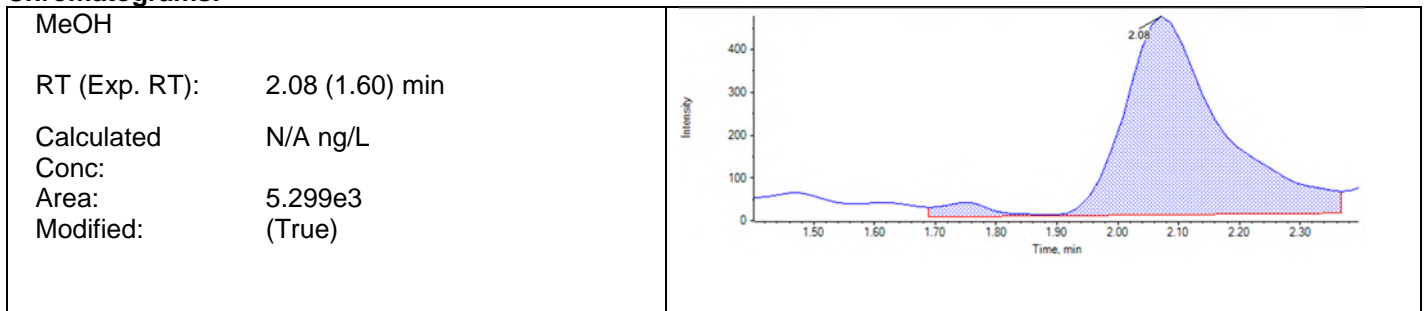
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	5299	2.08	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	445	1.70	26380	25.25000	25.788130	102
JU05	Standard	3/28/2018 7:57:43 PM	824	1.71	20490	50.50000	61.613692	122
JU06	Standard	3/28/2018 8:08:31 PM	1410	1.71	22020	101.00000	98.228932	97
JU07	Standard	3/28/2018 8:19:19 PM	4119	1.71	23110	252.50000	273.750615	108
JU08	Standard	3/28/2018 8:30:06 PM	5819	1.71	23570	505.00000	379.136656	75
JU09	Standard	3/28/2018 8:40:53 PM	13940	1.71	23600	1010.00000	907.452133	90
JU10	Standard	3/28/2018 8:51:40 PM	36130	1.71	21960	2525.00000	2528.019149	100
JU11	Standard	3/28/2018 9:02:26 PM	160400	1.71	22520	10100.00000	10944.260977	108
JU12	Standard	3/28/2018 9:13:13 PM	443600	1.70	34860	20200.00000	19550.999717	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1406	1.72	24230	N/A	88.985754	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	12210	1.71	20340	1010.00000	922.117767	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	772	1.72	25490	N/A	46.384834	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	28710	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	43610	1.70	26680	N/A	2510.851587	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	12040	1.67	7903	N/A	2340.372447	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	59340	1.67	7804	N/A	11682.783952	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	63710	1.67	9280	N/A	10547.859185	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	5547	1.70	27880	N/A	305.553495	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	5821	1.69	21900	N/A	408.289222	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	2387	1.69	31110	N/A	117.751968	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	21470	1.70	34120	1010.00000	966.802955	96
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	8799	1.70	25840	N/A	523.014401	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	158000	1.70	32700	N/A	7423.578473	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	33950	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	54040	1.69	17300	N/A	4798.242408	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	38900	1.70	28190	N/A	2120.279281	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	4998	1.69	35380	N/A	216.892300	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	51060	1.70	33030	2525.00000	2375.430661	94

**Chromatograms:**

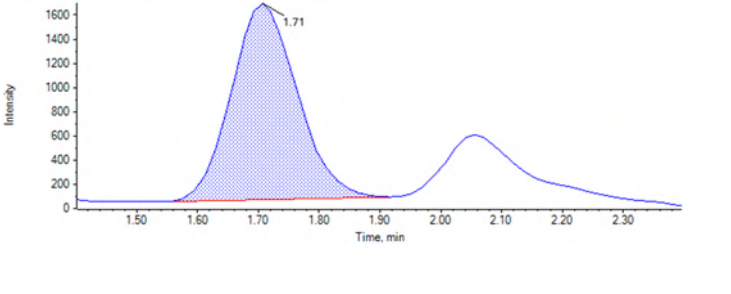
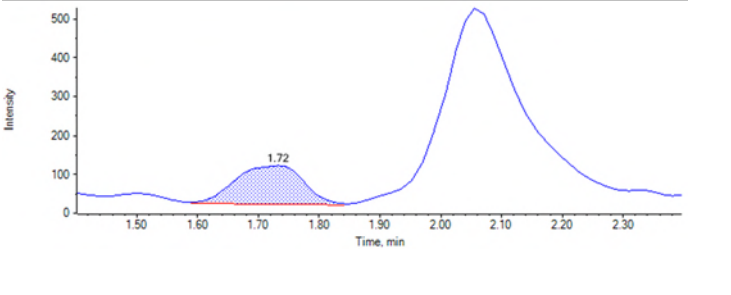
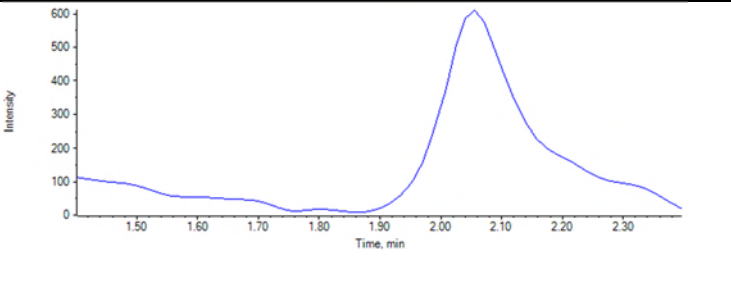
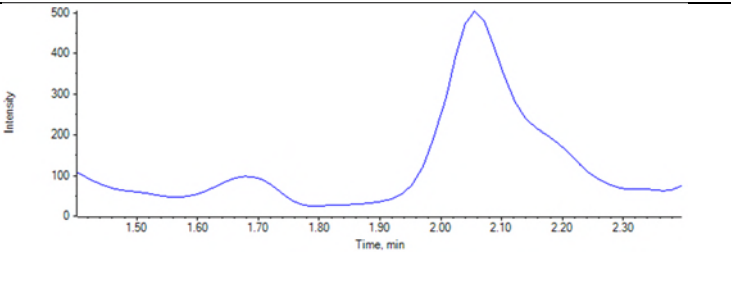
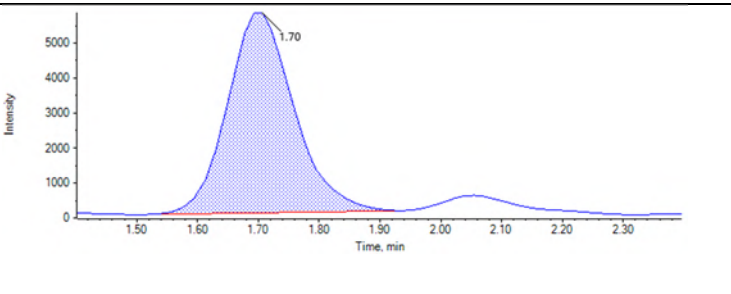


<p>JU04</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 25.788130 ng/L</p> <p>Area: 4.454e2</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 61.613692 ng/L</p> <p>Area: 8.237e2</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 98.228932 ng/L</p> <p>Area: 1.410e3</p> <p>Modified: (True)</p>	
<p>JU07</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 273.750615 ng/L</p> <p>Area: 4.119e3</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 379.136656 ng/L</p> <p>Area: 5.819e3</p> <p>Modified: (False)</p>	

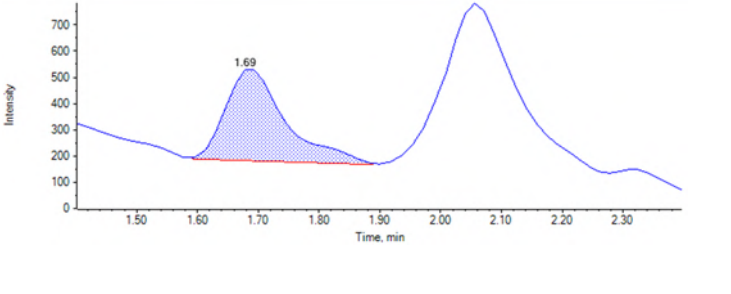
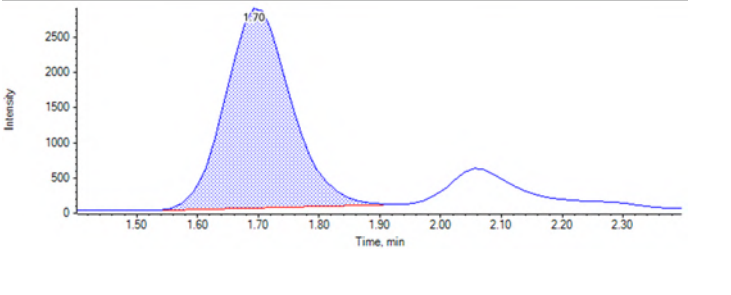
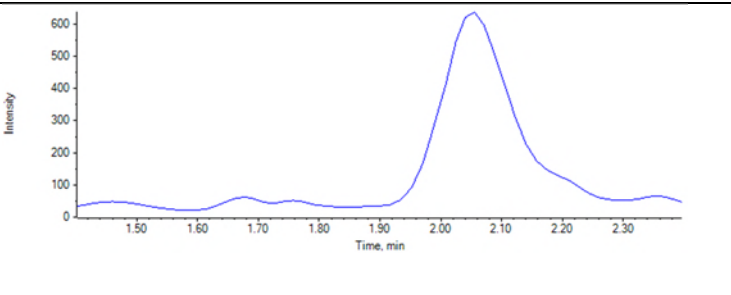
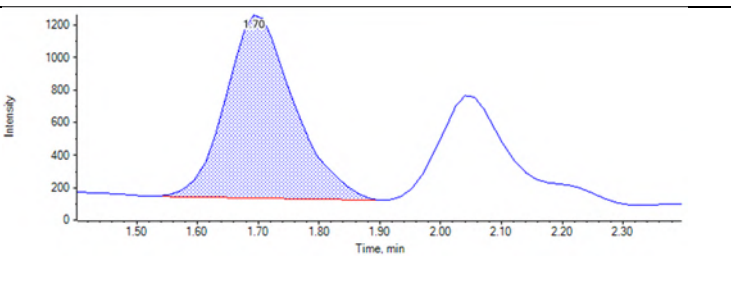
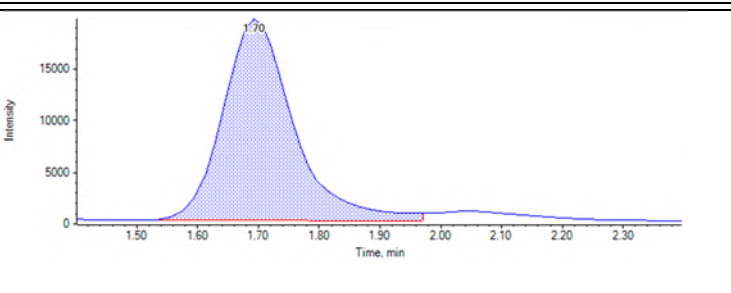


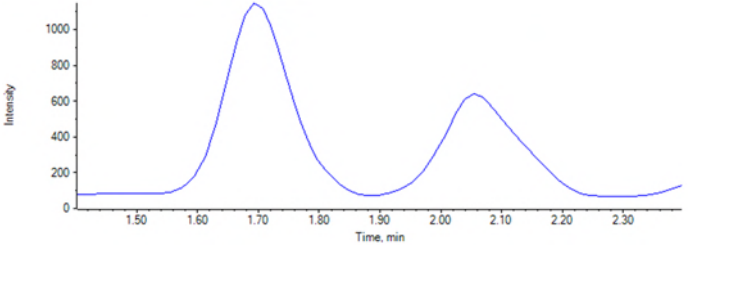
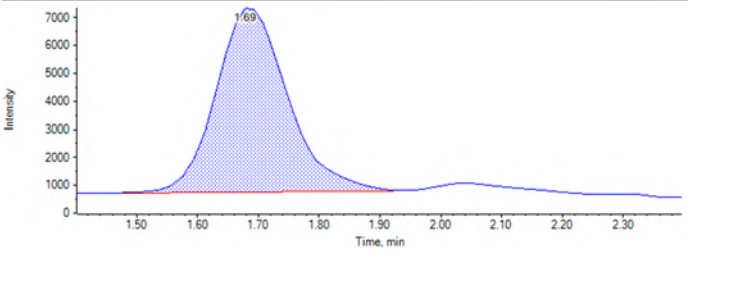
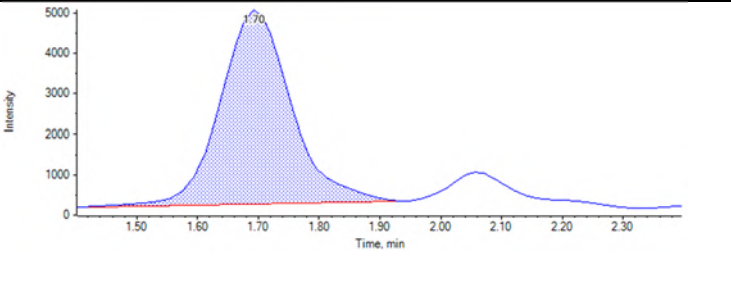
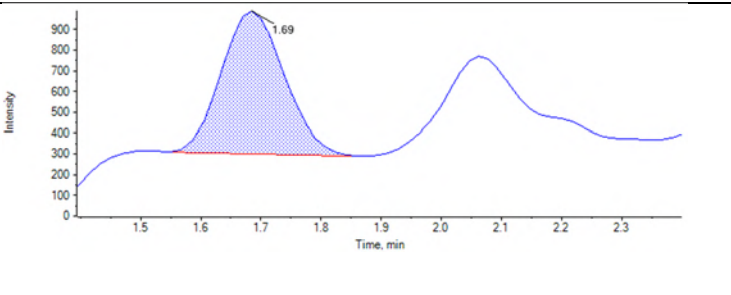
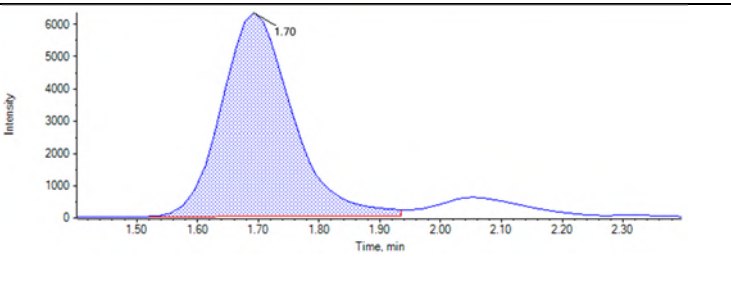
<p>JU09</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 907.452133 ng/L</p> <p>Area: 1.394e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 2528.019149 ng/L</p> <p>Area: 3.613e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 10944.260977 ng/L</p> <p>Area: 1.604e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 19550.999717 ng/L</p> <p>Area: 4.436e5</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.72 (1.60) min</p> <p>Calculated Conc: 88.985754 ng/L</p> <p>Area: 1.406e3</p> <p>Modified: (True)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 922.117767 ng/L</p> <p>Area: 1.221e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 1.72 (1.60) min</p> <p>Calculated Conc: 46.384834 ng/L</p> <p>Area: 7.721e2</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 2510.851587 ng/L</p> <p>Area: 4.361e4</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 1.67 (1.60) min</p> <p>Calculated Conc: 2340.372447 ng/L</p> <p>Area: 1.204e4</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 1.67 (1.60) min</p> <p>Calculated Conc: 11682.783952 ng/L</p> <p>Area: 5.934e4</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 1.67 (1.60) min</p> <p>Calculated Conc: 10547.859185 ng/L</p> <p>Area: 6.371e4</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 305.553495 ng/L</p> <p>Area: 5.547e3</p> <p>Modified: (True)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 1.69 (1.60) min</p> <p>Calculated Conc: 408.289222 ng/L</p> <p>Area: 5.821e3</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 1.69 (1.60) min</p> <p>Calculated Conc: 117.751968 ng/L</p> <p>Area: 2.387e3</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 966.802955 ng/L</p> <p>Area: 2.147e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 523.014401 ng/L</p> <p>Area: 8.799e3</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 7423.578473 ng/L</p> <p>Area: 1.580e5</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 1.50 to 2.30 minutes. The y-axis ranges from 0 to 1000 intensity units. Two peaks are visible: a larger peak at 1.70 minutes and a smaller peak at approximately 2.05 minutes.</p>
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 1.69 (1.60) min</p> <p>Calculated Conc: 4798.242408 ng/L</p> <p>Area: 5.404e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 1.50 to 2.30 minutes. The y-axis ranges from 0 to 7000 intensity units. A single prominent peak is observed at 1.69 minutes, shaded in blue.</p>
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 2120.279281 ng/L</p> <p>Area: 3.890e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 1.50 to 2.30 minutes. The y-axis ranges from 0 to 5000 intensity units. A single prominent peak is observed at 1.70 minutes, shaded in blue.</p>
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 1.69 (1.60) min</p> <p>Calculated Conc: 216.892300 ng/L</p> <p>Area: 4.998e3</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 1.5 to 2.3 minutes. The y-axis ranges from 0 to 900 intensity units. Two peaks are visible: a larger peak at 1.69 minutes and a smaller peak at approximately 2.05 minutes. The peak at 1.69 min is shaded in blue.</p>
<p>JU10 CCV</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 2375.430661 ng/L</p> <p>Area: 5.106e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 1.50 to 2.30 minutes. The y-axis ranges from 0 to 6000 intensity units. A single prominent peak is observed at 1.70 minutes, shaded in blue.</p>

**Analyte:** PFHpA\_1 (363.0 / 319.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	5627	2.08	31110	25.00000	56.060215	224
JU05	Standard	3/28/2018 7:57:43 PM	8538	2.09	26830	50.00000	75.562014	151
JU06	Standard	3/28/2018 8:08:31 PM	18530	2.09	27320	100.00000	126.677290	127
JU07	Standard	3/28/2018 8:19:19 PM	47710	2.08	30630	250.00000	251.606443	101
JU08	Standard	3/28/2018 8:30:06 PM	79390	2.08	27800	500.00000	435.826509	87
JU09	Standard	3/28/2018 8:40:53 PM	166000	2.08	26380	1000.00000	923.643237	92
JU10	Standard	3/28/2018 8:51:40 PM	385600	2.08	24570	2500.00000	2258.900966	90
JU11	Standard	3/28/2018 9:02:26 PM	1636000	2.08	22840	10000.00000	10205.548132	102
JU12	Standard	3/28/2018 9:13:13 PM	4278000	2.07	30190	20000.00000	20147.797423	101
JP83 IB	Unknown	3/28/2018 9:23:58 PM	21430	2.09	31870	N/A	125.876331	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	142600	2.07	25020	1000.00000	839.489644	84
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	33220	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	31720	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	488600	2.07	29920	N/A	2349.066073	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	15760	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	988800	2.04	15750	N/A	8945.520028	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1051000	2.04	16350	N/A	9158.576015	N/A

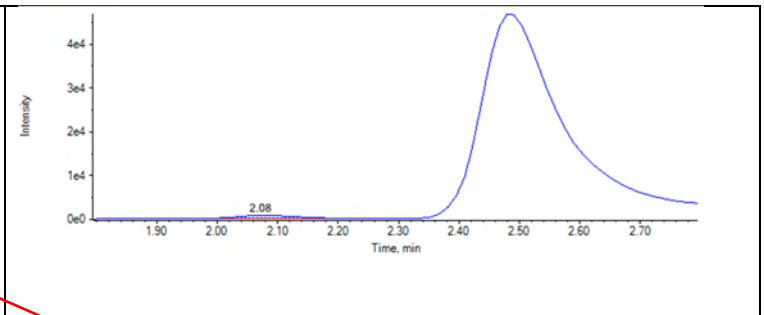
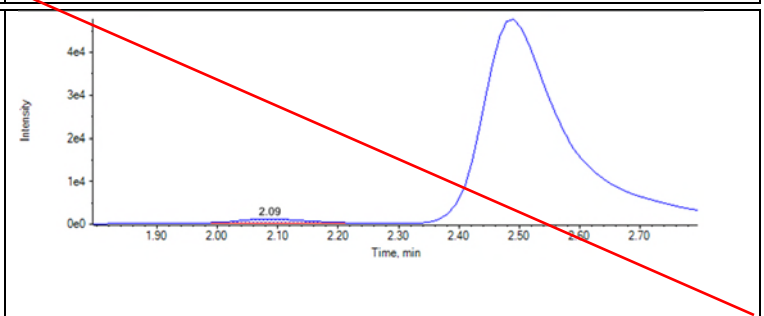
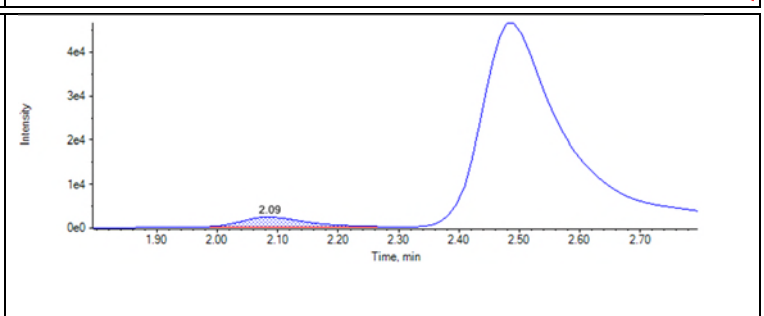
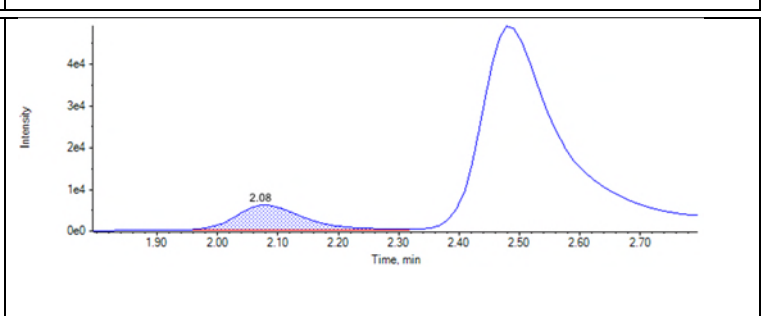
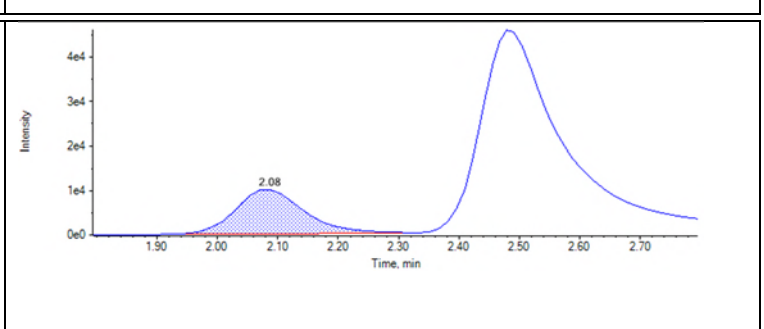
Not being used in this calibration.  
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	20470	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	19970	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33900	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	210900	2.07	33260	1000.00000	930.789495	93
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	95620	2.07	22570	N/A	631.979023	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	1161000	2.07	25280	N/A	6551.347183	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>30160</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	680500	2.06	19820	N/A	4906.615264	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	244000	2.07	22370	N/A	1579.101195	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	78680	2.05	26180	N/A	457.195105	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	502500	2.06	30970	2500.00000	2333.954092	93

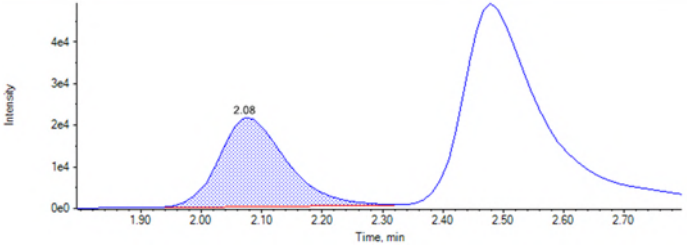
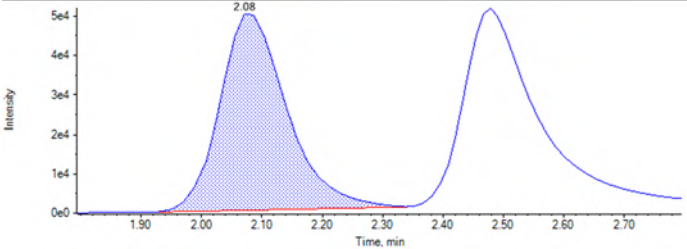
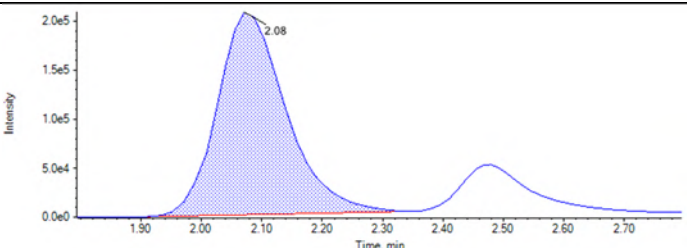
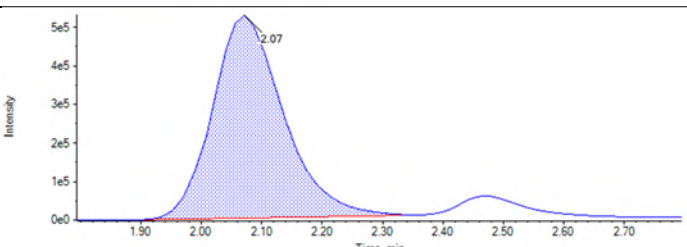
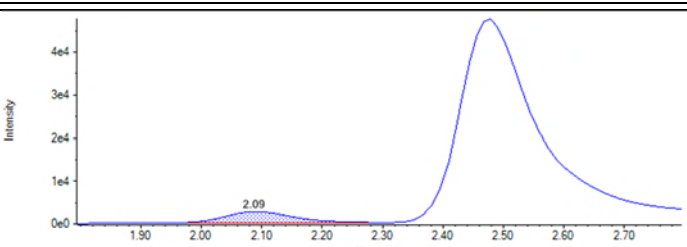
Dilution not needed. DMS 4/4/2018

**Chromatograms:**

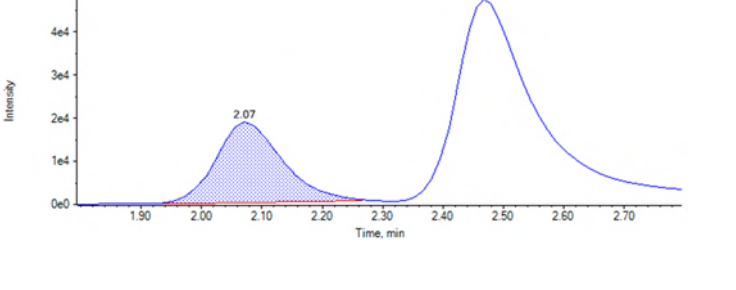
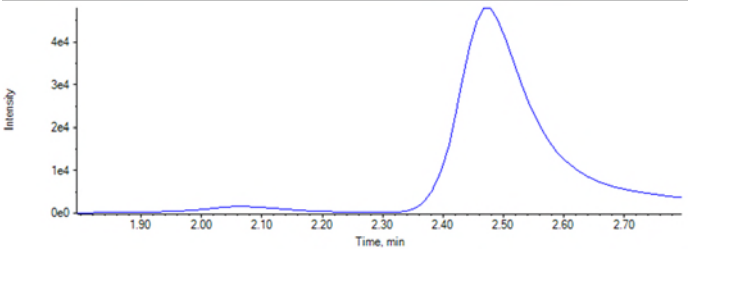
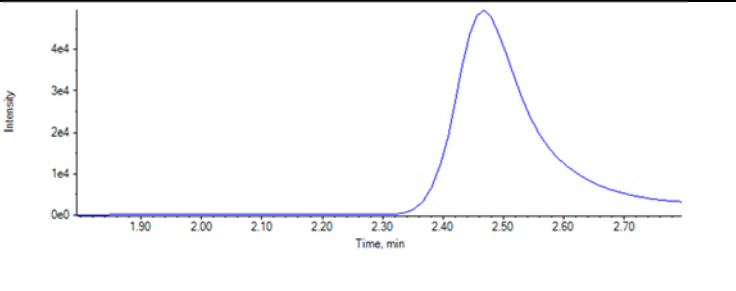
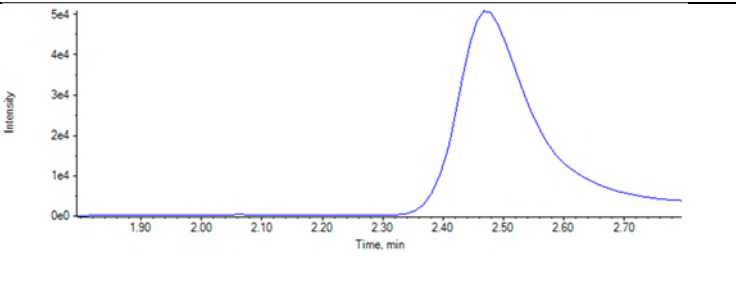
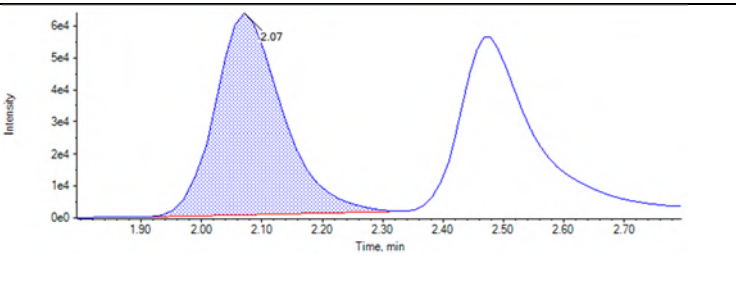
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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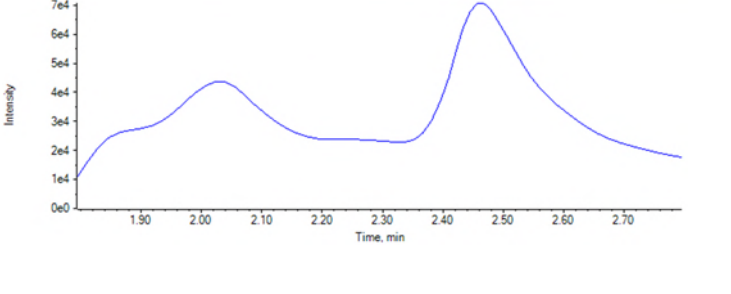
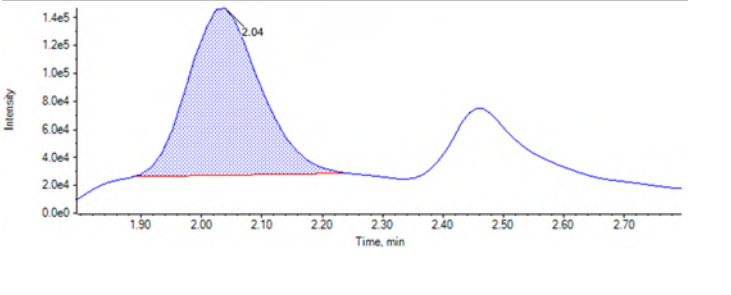
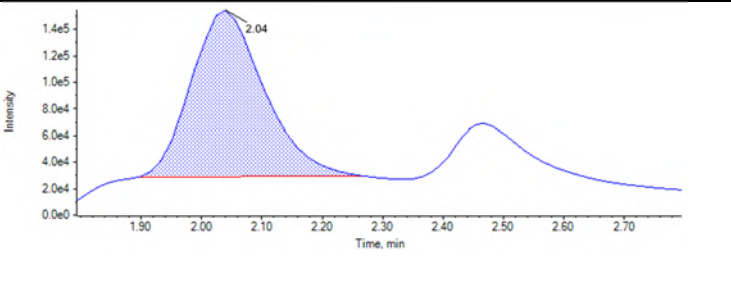
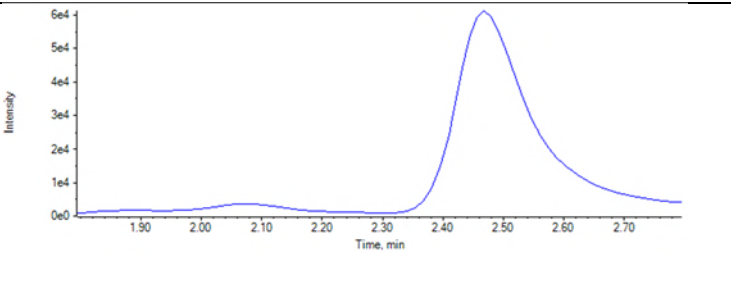
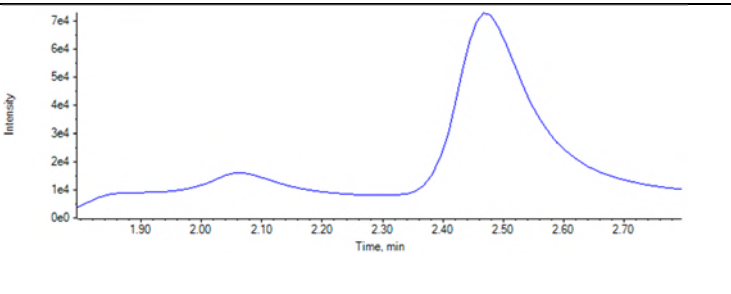
<p>JU04</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 56.060215 ng/L</p> <p>Area: 5.627e3</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 75.562014 ng/L</p> <p>Area: 8.538e3</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 126.677290 ng/L</p> <p>Area: 1.853e4</p> <p>Modified: (True)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 251.606443 ng/L</p> <p>Area: 4.771e4</p> <p>Modified: (True)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 435.826509 ng/L</p> <p>Area: 7.939e4</p> <p>Modified: (True)</p>	

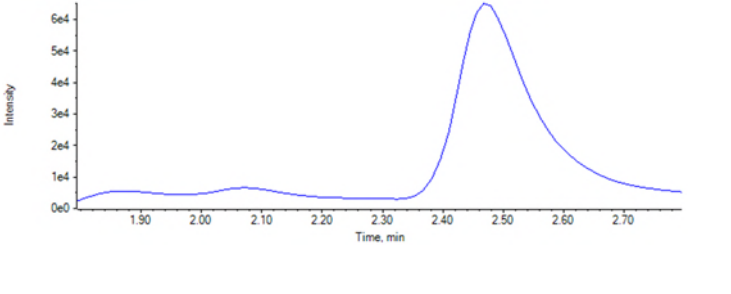
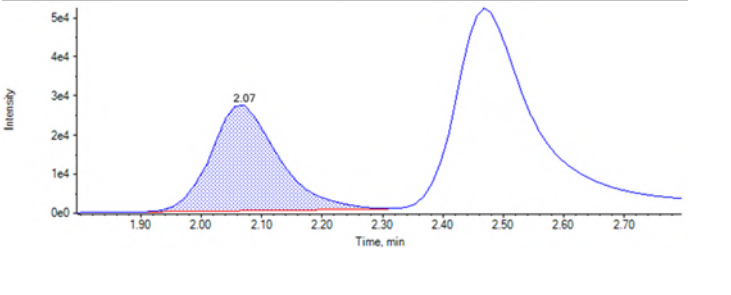
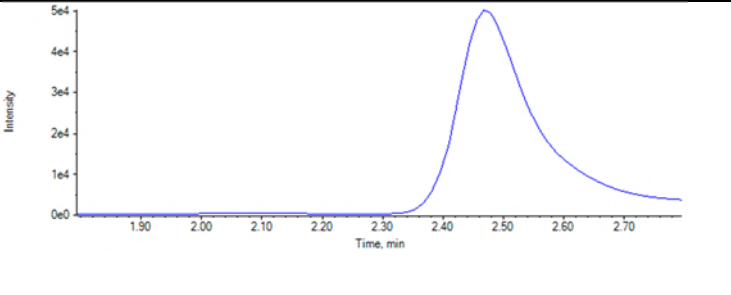
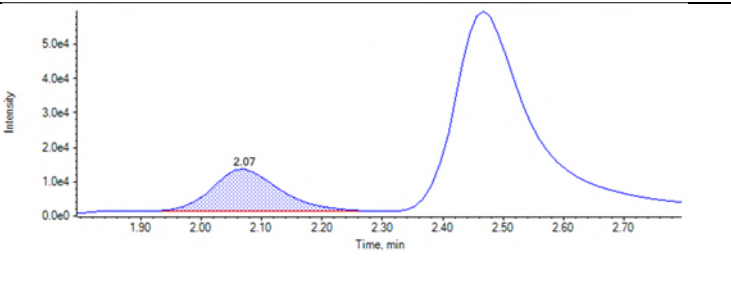
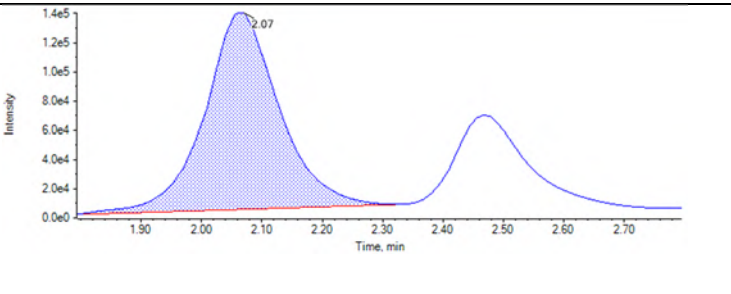


<p>JU09</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 923.643237 ng/L</p> <p>Area: 1.660e5</p> <p>Modified: (True)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 2258.900966 ng/L</p> <p>Area: 3.856e5</p> <p>Modified: (True)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 10205.548132 ng/L</p> <p>Area: 1.636e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 20147.797423 ng/L</p> <p>Area: 4.278e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 125.876331 ng/L</p> <p>Area: 2.143e4</p> <p>Modified: (True)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 839.489644 ng/L</p> <p>Area: 1.426e5</p> <p>Modified: (True)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 2349.066073 ng/L</p> <p>Area: 4.886e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 1.90 to 2.70 minutes. The y-axis represents intensity from 0e0 to 7e4. A significant peak is observed at approximately 2.50 minutes, reaching an intensity of about 7e4. There is also a smaller, broader peak around 2.05 minutes.</p>
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.04 (2.00) min</p> <p>Calculated Conc: 8945.520028 ng/L</p> <p>Area: 9.888e5</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 1.90 to 2.70 minutes. The y-axis represents intensity from 0.0e0 to 1.4e5. A peak is labeled at 2.04 minutes and is shaded in blue. Another peak is visible at approximately 2.45 minutes.</p>
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.04 (2.00) min</p> <p>Calculated Conc: 9158.576015 ng/L</p> <p>Area: 1.051e6</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 1.90 to 2.70 minutes. The y-axis represents intensity from 0.0e0 to 1.4e5. A peak is labeled at 2.04 minutes and is shaded in blue. Another peak is visible at approximately 2.45 minutes.</p>
<p>J5388-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 1.90 to 2.70 minutes. The y-axis represents intensity from 0e0 to 6e4. A significant peak is observed at approximately 2.50 minutes, reaching an intensity of about 6e4.</p>
<p>J5389-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 1.90 to 2.70 minutes. The y-axis represents intensity from 0e0 to 7e4. A significant peak is observed at approximately 2.50 minutes, reaching an intensity of about 7e4.</p>

<p>J5390-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 930.789495 ng/L</p> <p>Area: 2.109e5</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 631.979023 ng/L</p> <p>Area: 9.562e4</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 6551.347183 ng/L</p> <p>Area: 1.161e6</p> <p>Modified: (False)</p>	

<p><del>J5394-FS-D(5)</del></p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 4906.615264 ng/L</p> <p>Area: 6.805e5</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 1579.101195 ng/L</p> <p>Area: 2.440e5</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.05 (2.00) min</p> <p>Calculated Conc: 457.195105 ng/L</p> <p>Area: 7.868e4</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 2333.954092 ng/L</p> <p>Area: 5.025e5</p> <p>Modified: (False)</p>	

**Analyte:** PFHpA\_2 (363.0 / 169.0)

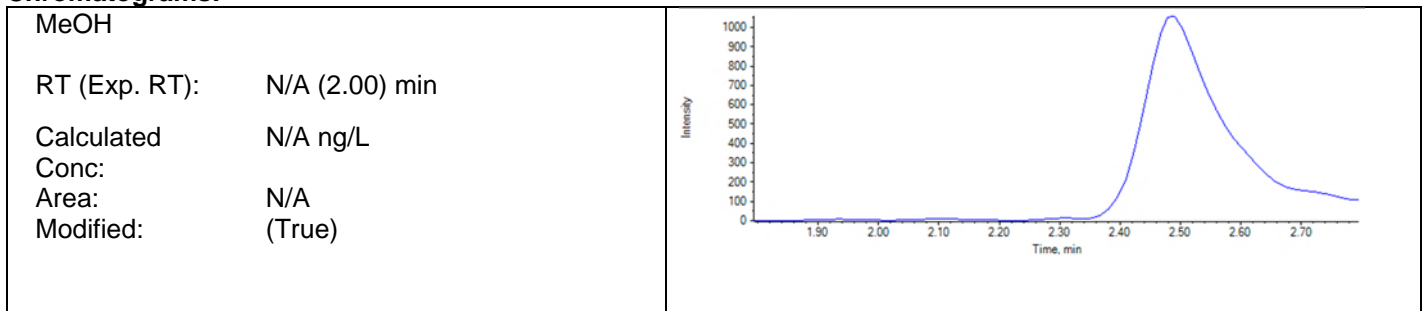
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	192	2.11	31110	25.00000	67.441088	270
JU05	Standard	3/28/2018 7:57:43 PM	158	2.09	26830	50.00000	65.434860	131
JU06	Standard	3/28/2018 8:08:31 PM	343	2.07	27320	100.00000	109.865247	110
JU07	Standard	3/28/2018 8:19:19 PM	1111	2.08	30630	250.00000	268.022015	107
JU08	Standard	3/28/2018 8:30:06 PM	2076	2.07	27800	500.00000	524.009955	105
JU09	Standard	3/28/2018 8:40:53 PM	3394	2.08	26380	1000.00000	883.574575	88
JU10	Standard	3/28/2018 8:51:40 PM	7839	2.08	24570	2500.00000	2152.378430	86
JU11	Standard	3/28/2018 9:02:26 PM	35280	2.08	22840	10000.00000	10322.122471	103
JU12	Standard	3/28/2018 9:13:13 PM	90890	2.07	30190	20000.00000	20090.027307	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	328	2.08	31870	N/A	94.899571	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	3372	2.07	25020	1000.00000	924.227498	92
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	33220	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	31720	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	10500	2.08	29920	N/A	2363.979670	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	128300	2.00	15760	N/A	54305.223478	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	146900	2.01	15750	N/A	62212.817439	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	149100	2.02	16350	N/A	60827.800907	N/A

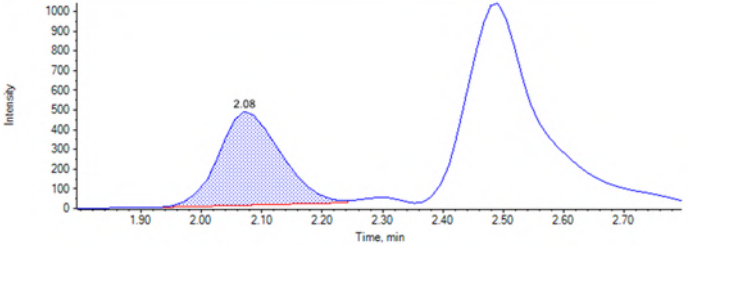
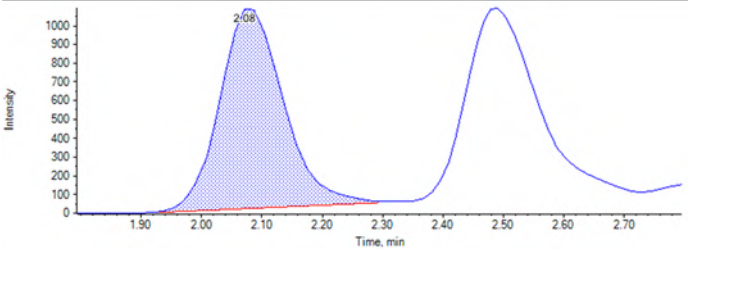
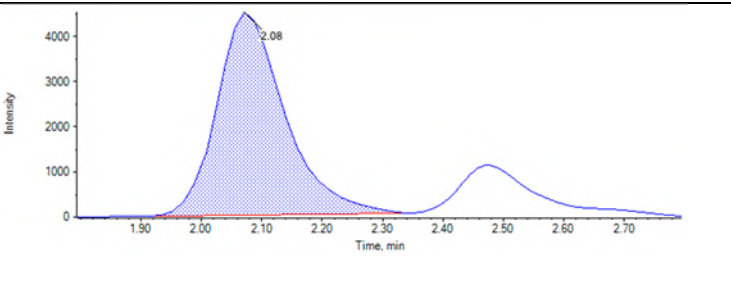
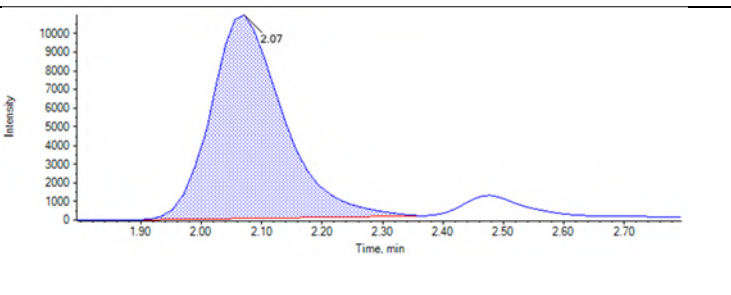
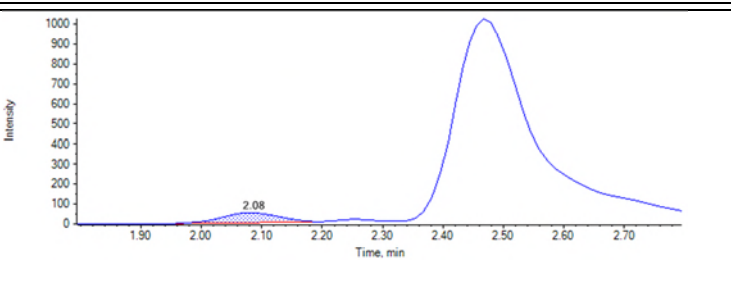
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	20470	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	19970	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33900	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	4354	2.07	33260	1000.00000	898.756827	90
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	2107	2.06	22570	N/A	648.521770	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	32510	2.04	25280	N/A	8598.709518	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	30160	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	43770	2.04	19820	N/A	14748.978763	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	6717	2.06	22370	N/A	2027.083992	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	2284	2.03	26180	N/A	607.877117	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	11590	2.07	30970	2500.00000	2519.991756	101

**Chromatograms:**

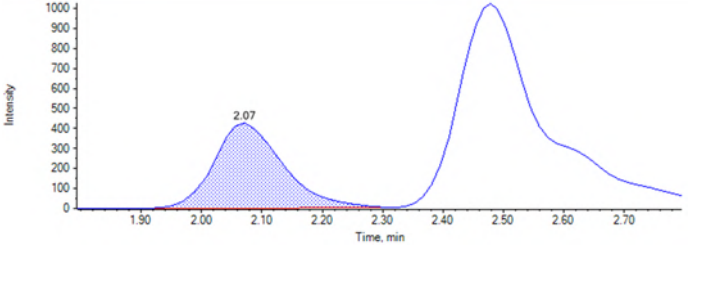
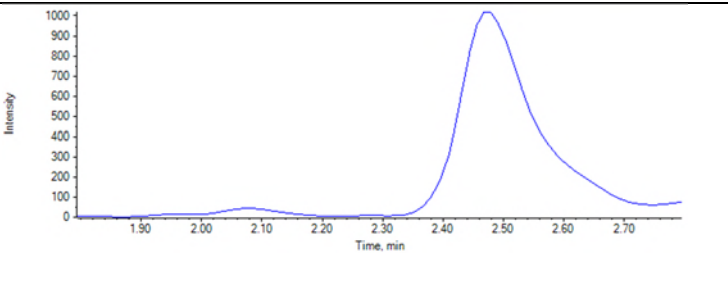
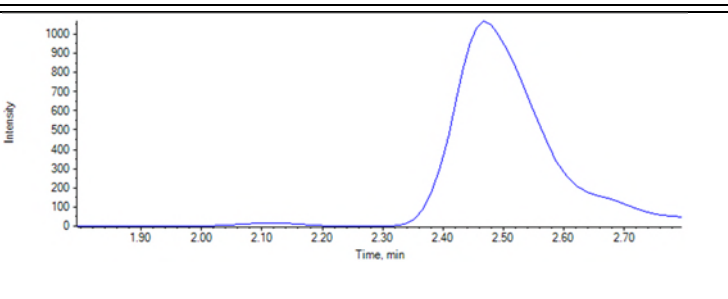
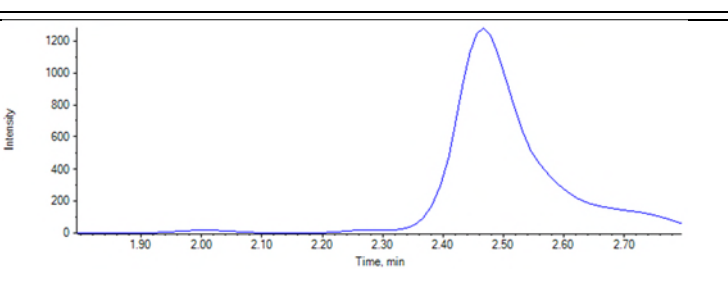
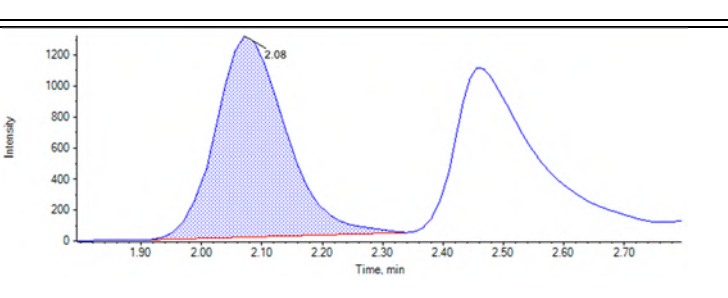


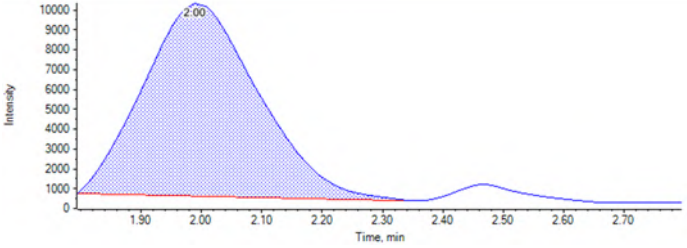
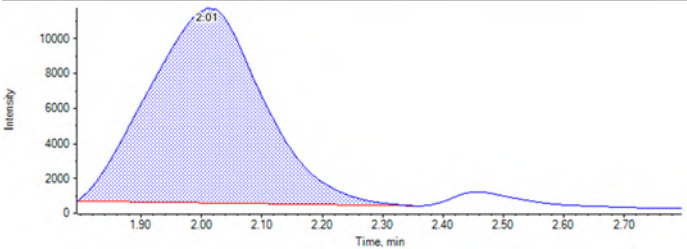
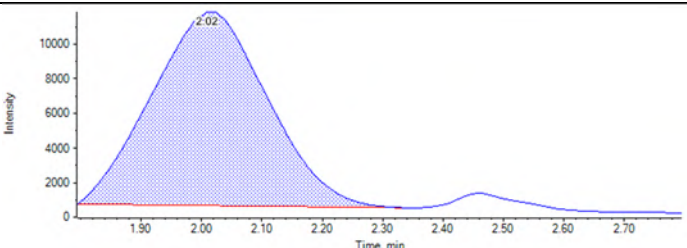
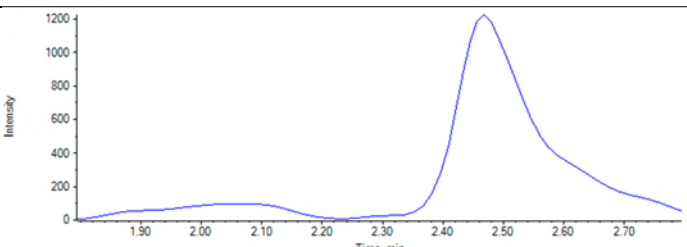
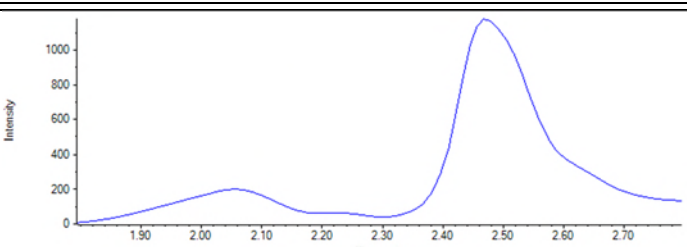
<p>JU04</p> <p>RT (Exp. RT): 2.11 (2.00) min</p> <p>Calculated Conc: 67.441088 ng/L</p> <p>Area: 1.923e2</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 65.434860 ng/L</p> <p>Area: 1.577e2</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 109.865247 ng/L</p> <p>Area: 3.427e2</p> <p>Modified: (True)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 268.022015 ng/L</p> <p>Area: 1.111e3</p> <p>Modified: (True)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 524.009955 ng/L</p> <p>Area: 2.076e3</p> <p>Modified: (True)</p>	

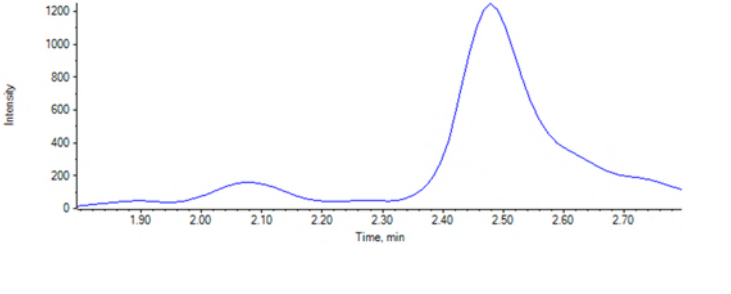
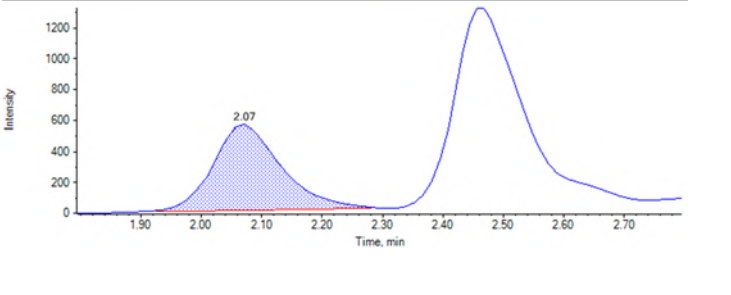
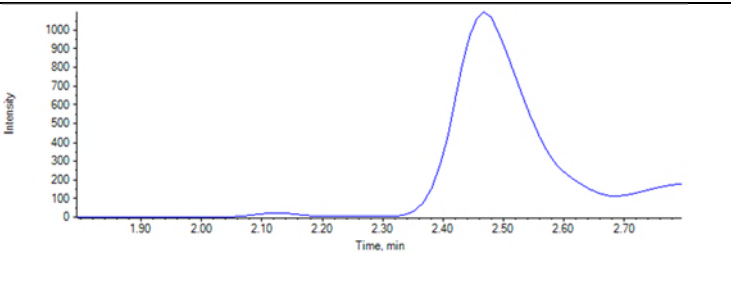
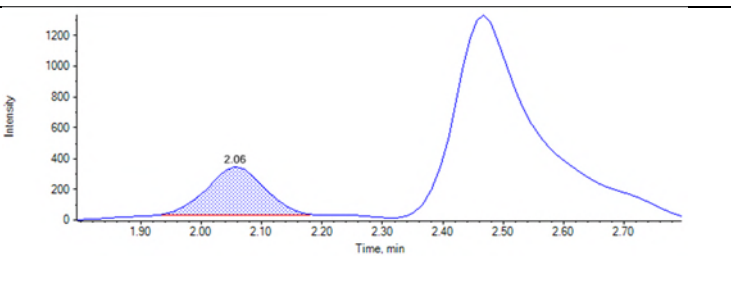
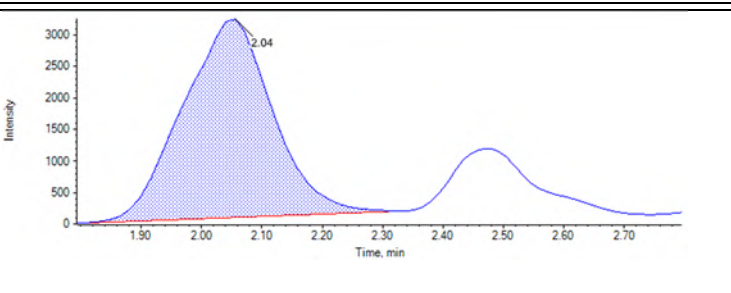


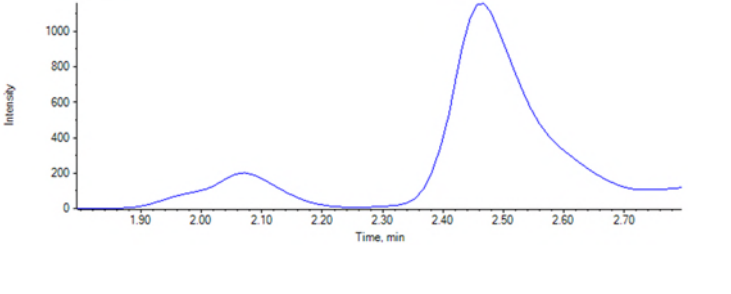
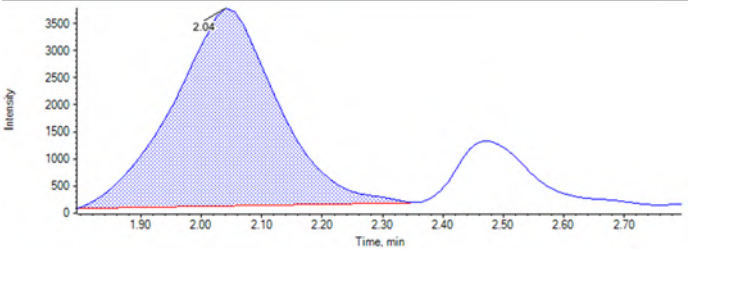
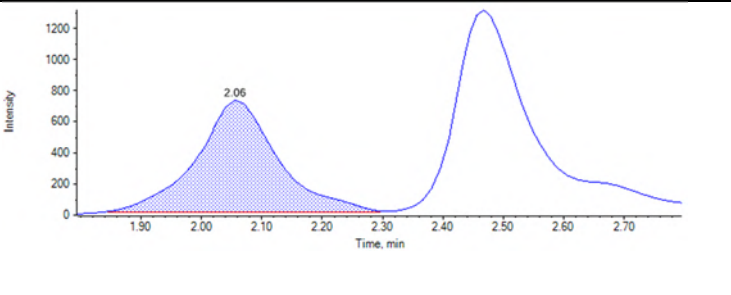
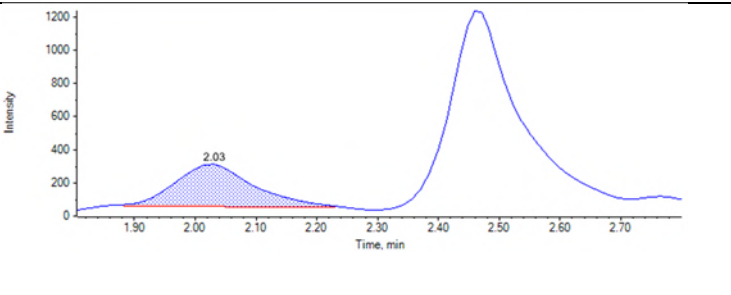
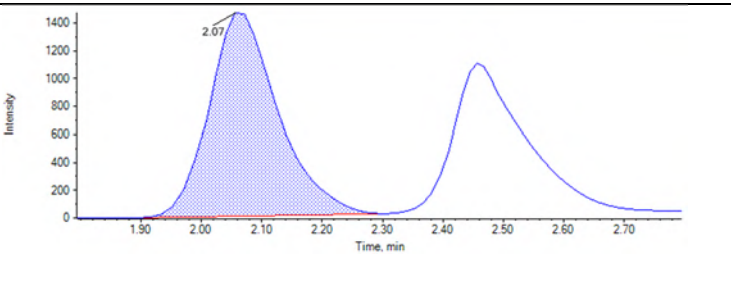
<p>JU09</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 883.574575 ng/L</p> <p>Area: 3.394e3</p> <p>Modified: (True)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 2152.378430 ng/L</p> <p>Area: 7.839e3</p> <p>Modified: (True)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 10322.122471 ng/L</p> <p>Area: 3.528e4</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 20090.027307 ng/L</p> <p>Area: 9.089e4</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 94.899571 ng/L</p> <p>Area: 3.283e2</p> <p>Modified: (True)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 924.227498 ng/L</p> <p>Area: 3.372e3</p> <p>Modified: (True)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 2363.979670 ng/L</p> <p>Area: 1.050e4</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 2.00 (2.00) min</p> <p>Calculated Conc: 54305.223478 ng/L</p> <p>Area: 1.283e5</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.01 (2.00) min</p> <p>Calculated Conc: 62212.817439 ng/L</p> <p>Area: 1.469e5</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.02 (2.00) min</p> <p>Calculated Conc: 60827.800907 ng/L</p> <p>Area: 1.491e5</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 898.756827 ng/L</p> <p>Area: 4.354e3</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 648.521770 ng/L</p> <p>Area: 2.107e3</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 2.04 (2.00) min</p> <p>Calculated Conc: 8598.709518 ng/L</p> <p>Area: 3.251e4</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 2.04 (2.00) min</p> <p>Calculated Conc: 14748.978763 ng/L</p> <p>Area: 4.377e4</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 2027.083992 ng/L</p> <p>Area: 6.717e3</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.03 (2.00) min</p> <p>Calculated Conc: 607.877117 ng/L</p> <p>Area: 2.284e3</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 2519.991756 ng/L</p> <p>Area: 1.159e4</p> <p>Modified: (False)</p>	

**Analyte:** PFHxS\_1 (399.0 / 80.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	9346	2.11	7553	25.25000	22.937318	91
JU05	Standard	3/28/2018 7:57:43 PM	12150	2.11	5805	50.50000	49.075900	97
JU06	Standard	3/28/2018 8:08:31 PM	24790	2.11	7235	101.00000	89.812255	89
JU07	Standard	3/28/2018 8:19:19 PM	65320	2.10	7386	252.50000	255.369183	101
JU08	Standard	3/28/2018 8:30:06 PM	106600	2.10	6117	505.00000	517.625925	103
JU09	Standard	3/28/2018 8:40:53 PM	221500	2.10	5931	1010.00000	1126.539821	112
JU10	Standard	3/28/2018 8:51:40 PM	488600	2.10	5457	2525.00000	2721.490627	108
JU11	Standard	3/28/2018 9:02:26 PM	2032000	2.10	5943	10100.00000	10433.642448	103
JU12	Standard	3/28/2018 9:13:13 PM	5229000	2.09	8166	20200.00000	19552.756523	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	28850	2.10	7679	N/A	99.915086	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	206100	2.09	5805	1010.00000	1070.135156	106
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	1023000	2.09	6589	N/A	4728.838426	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	971	2.09	7379	N/A	< 0	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	652200	2.10	7217	N/A	2746.838656	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	3862	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1385000	2.06	3453	N/A	12239.282027	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1524000	2.06	4136	N/A	11246.800899	N/A

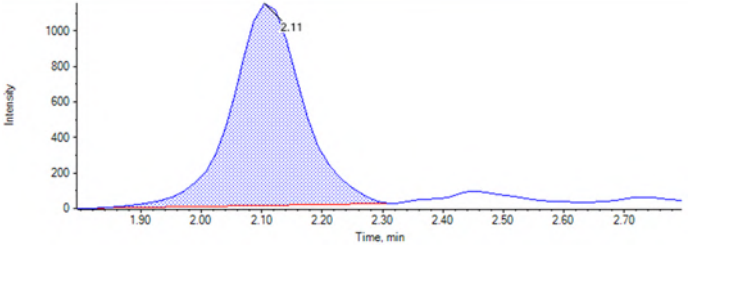
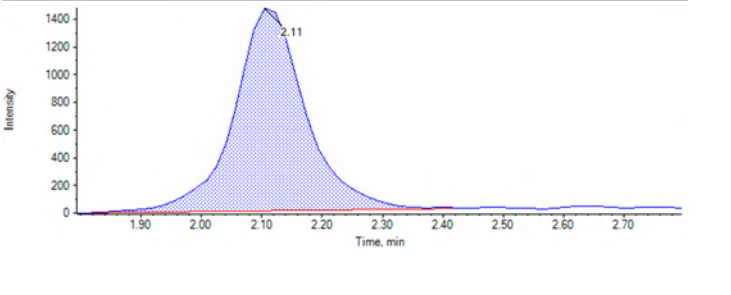
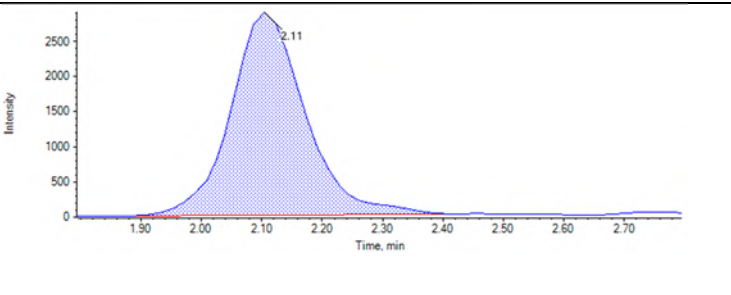
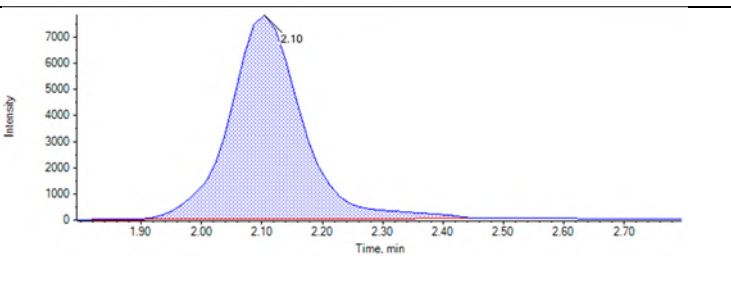
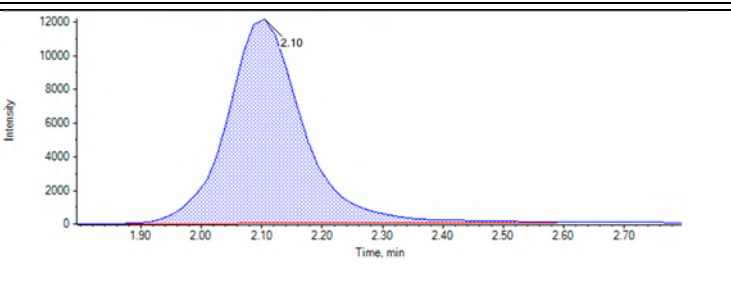
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	645400	2.09	6631	N/A	2958.990243	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	32470	2.09	4202	N/A	221.214227	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	21520	2.09	6422	N/A	87.520752	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	262200	2.09	7008	1010.00000	1128.316666	112
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	59490	2.09	5301	N/A	328.038788	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	530900	2.09	7747	N/A	2079.149678	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>7281</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	235200	2.08	3937	N/A	1811.097651	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	194200	2.09	5121	N/A	1144.231907	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	31150	2.07	7852	N/A	106.349723	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	616900	2.09	7136	2525.00000	2626.866885	104

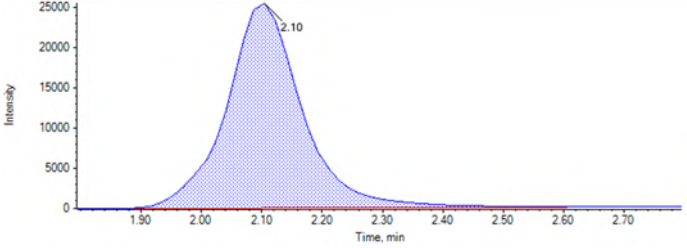
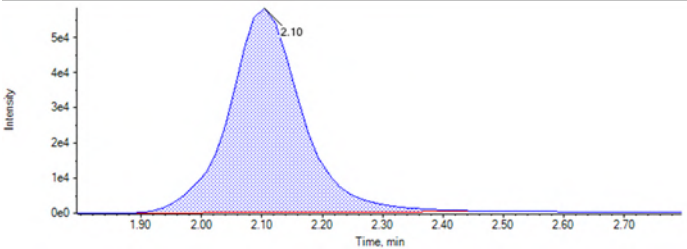
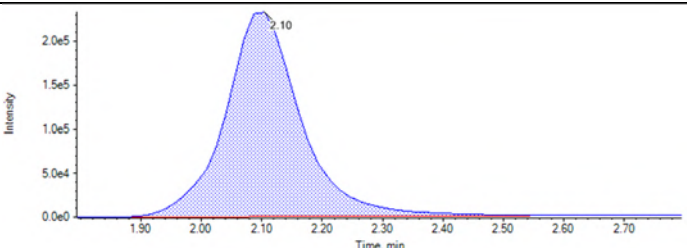
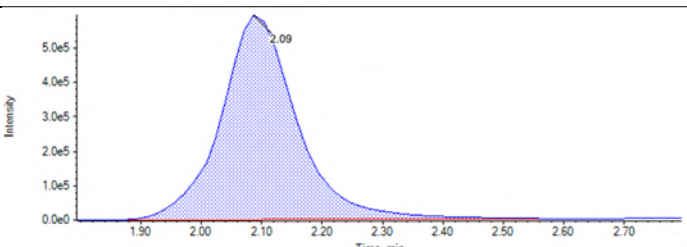
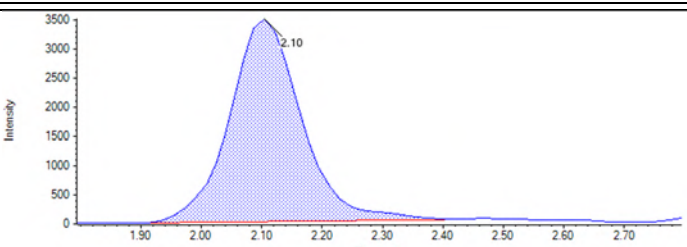
Dilution not needed. DMS 4/4/2018

**Chromatograms:**

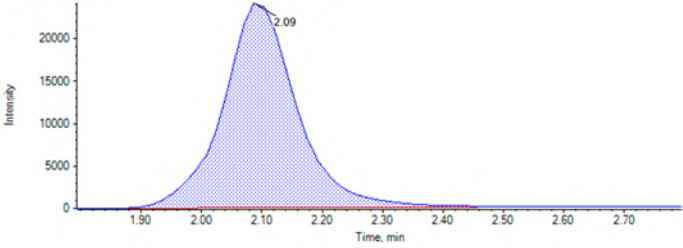
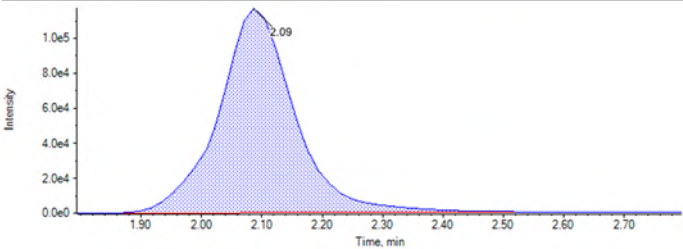
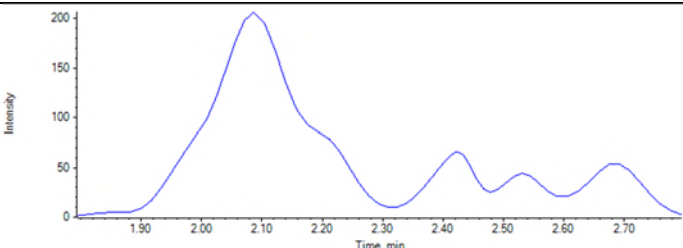
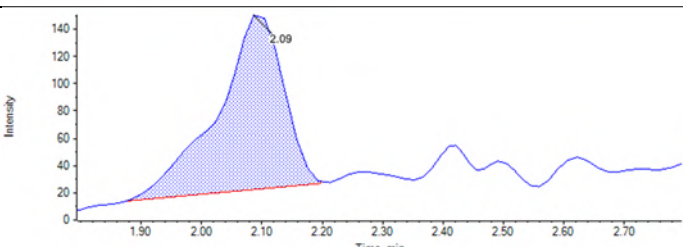
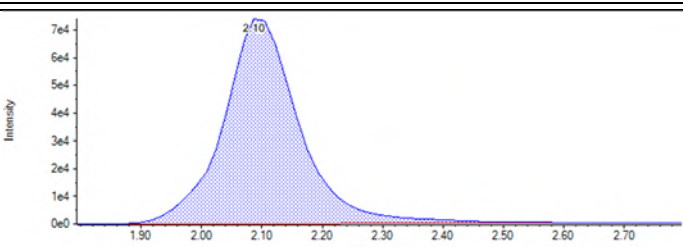
MeOH  RT (Exp. RT): N/A (2.00) min  Calculated Conc: N/A ng/L  Area: N/A  Modified: (True)	
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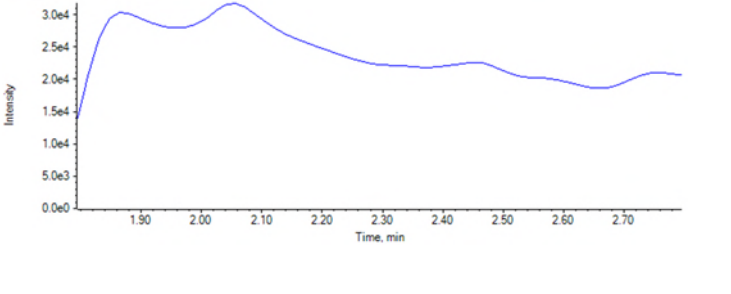
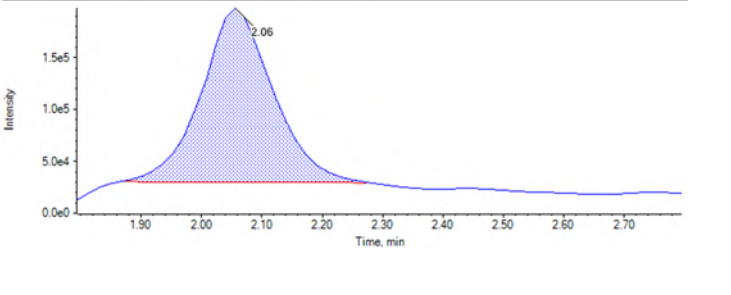
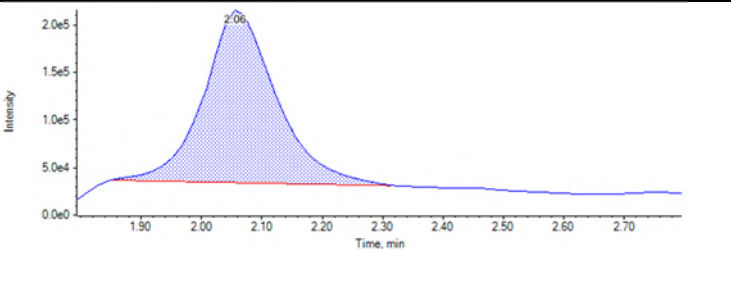
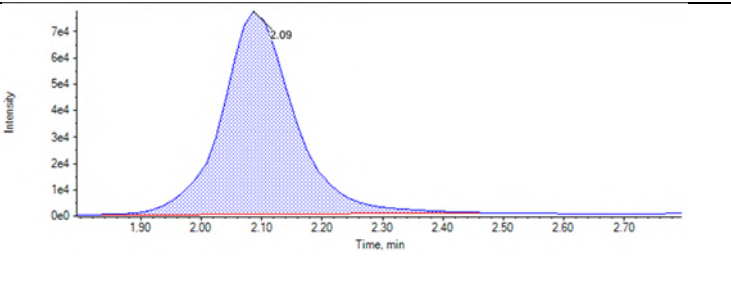
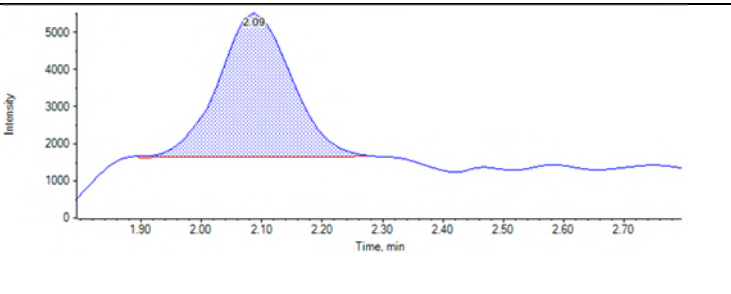


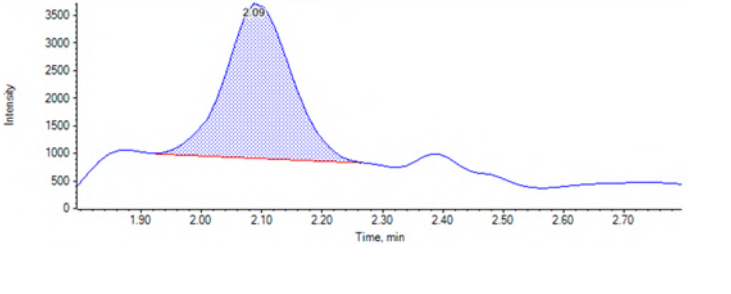
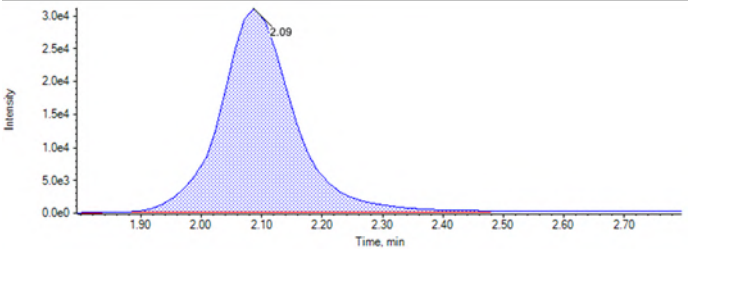
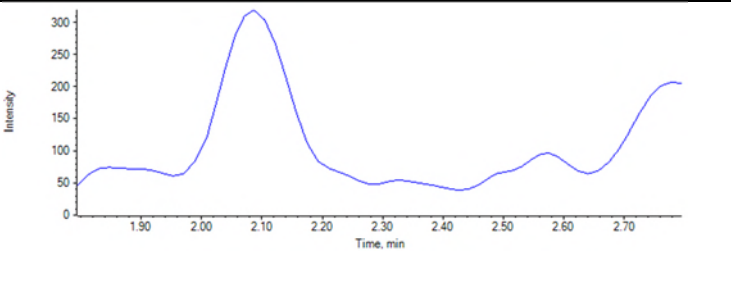
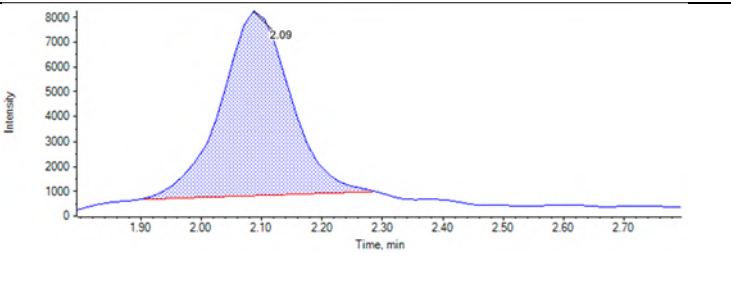
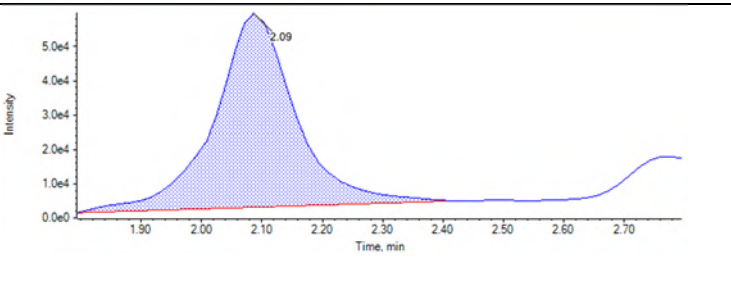
<p>JU04</p> <p>RT (Exp. RT): 2.11 (2.00) min</p> <p>Calculated Conc: 22.937318 ng/L</p> <p>Area: 9.346e3</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.11 (2.00) min</p> <p>Calculated Conc: 49.075900 ng/L</p> <p>Area: 1.215e4</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.11 (2.00) min</p> <p>Calculated Conc: 89.812255 ng/L</p> <p>Area: 2.479e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 255.369183 ng/L</p> <p>Area: 6.532e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 517.625925 ng/L</p> <p>Area: 1.066e5</p> <p>Modified: (False)</p>	

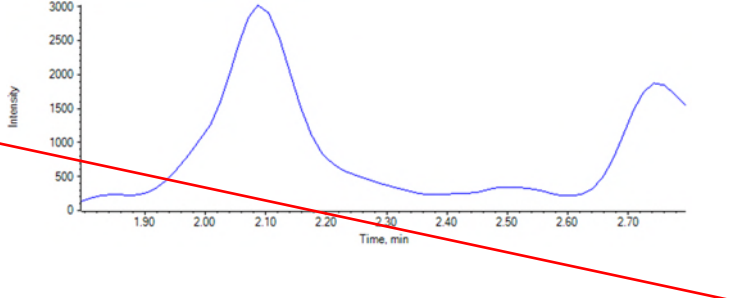
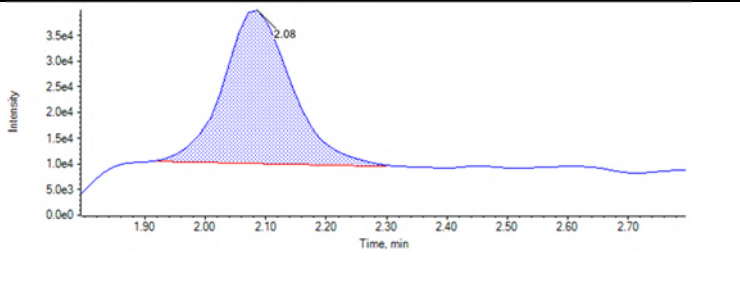
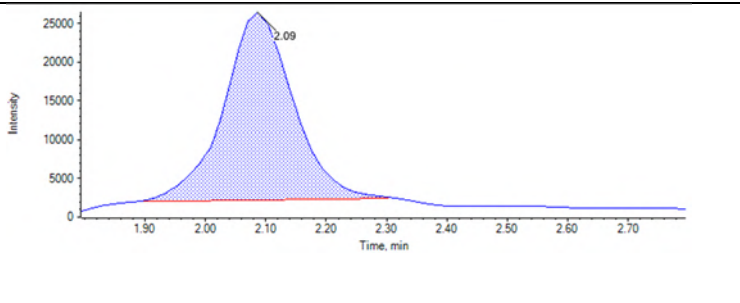
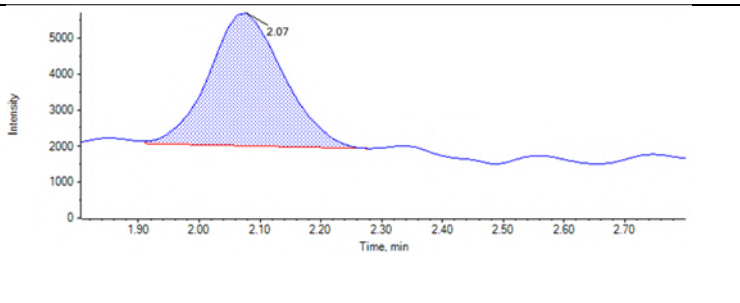
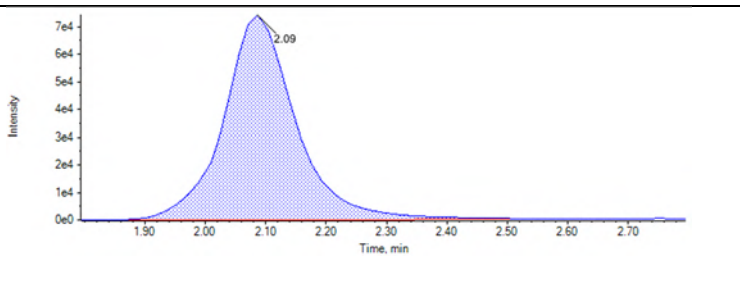
<p>JU09</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 1126.539821 ng/L</p> <p>Area: 2.215e5</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 2721.490627 ng/L</p> <p>Area: 4.886e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 10433.642448 ng/L</p> <p>Area: 2.032e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 19552.756523 ng/L</p> <p>Area: 5.229e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 99.915086 ng/L</p> <p>Area: 2.885e4</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 1070.135156 ng/L</p> <p>Area: 2.061e5</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 4728.838426 ng/L</p> <p>Area: 1.023e6</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 9.707e2</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 2746.838656 ng/L</p> <p>Area: 6.522e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time, min. The y-axis ranges from 0.0e0 to 3.0e4. The x-axis ranges from 1.50 to 2.70. A broad peak is visible around 2.00 min.</p>
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 12239.282027 ng/L</p> <p>Area: 1.385e6</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time, min. The y-axis ranges from 0.0e0 to 1.5e5. The x-axis ranges from 1.50 to 2.70. A sharp peak is labeled at 2.06 min.</p>
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 11246.800899 ng/L</p> <p>Area: 1.524e6</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time, min. The y-axis ranges from 0.0e0 to 2.0e5. The x-axis ranges from 1.50 to 2.70. A sharp peak is labeled at 2.06 min.</p>
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 2958.990243 ng/L</p> <p>Area: 6.454e5</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time, min. The y-axis ranges from 0e0 to 7e4. The x-axis ranges from 1.50 to 2.70. A sharp peak is labeled at 2.09 min.</p>
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 221.214227 ng/L</p> <p>Area: 3.247e4</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time, min. The y-axis ranges from 0 to 5000. The x-axis ranges from 1.50 to 2.70. A sharp peak is labeled at 2.09 min.</p>

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 87.520752 ng/L</p> <p>Area: 2.152e4</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 1128.316666 ng/L</p> <p>Area: 2.622e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 328.038788 ng/L</p> <p>Area: 5.949e4</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 2079.149678 ng/L</p> <p>Area: 5.309e5</p> <p>Modified: (False)</p>	

<p><del>J5394-FS-D(5)</del></p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity vs time (min) with a peak at 2.10 min. The y-axis ranges from 0 to 3000, and the x-axis ranges from 1.90 to 2.70.</p>
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 1811.097651 ng/L</p> <p>Area: 2.352e5</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity vs time (min) with a peak at 2.08 min. The y-axis ranges from 0.0e0 to 3.5e4, and the x-axis ranges from 1.90 to 2.70.</p>
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 1144.231907 ng/L</p> <p>Area: 1.942e5</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity vs time (min) with a peak at 2.09 min. The y-axis ranges from 0 to 25000, and the x-axis ranges from 1.90 to 2.70.</p>
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 106.349723 ng/L</p> <p>Area: 3.115e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity vs time (min) with a peak at 2.07 min. The y-axis ranges from 0 to 5000, and the x-axis ranges from 1.90 to 2.70.</p>
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 2626.866885 ng/L</p> <p>Area: 6.169e5</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity vs time (min) with a peak at 2.09 min. The y-axis ranges from 0e0 to 7e4, and the x-axis ranges from 1.90 to 2.70.</p>

**Analyte:** PFHxS\_2 (399.0 / 99.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	2654	2.10	7553	25.25000	21.106561	84
JU05	Standard	3/28/2018 7:57:43 PM	4183	2.11	5805	50.50000	60.509038	120
JU06	Standard	3/28/2018 8:08:31 PM	6508	2.11	7235	101.00000	79.595844	79
JU07	Standard	3/28/2018 8:19:19 PM	17670	2.10	7386	252.50000	238.852883	95
JU08	Standard	3/28/2018 8:30:06 PM	28860	2.10	6117	505.00000	486.949855	96
JU09	Standard	3/28/2018 8:40:53 PM	65790	2.10	5931	1010.00000	1167.168355	116
JU10	Standard	3/28/2018 8:51:40 PM	143900	2.10	5457	2525.00000	2796.910116	111
JU11	Standard	3/28/2018 9:02:26 PM	589600	2.10	5943	10100.00000	10568.937184	105
JU12	Standard	3/28/2018 9:13:13 PM	1482000	2.09	8166	20200.00000	19349.220166	96
JP83 IB	Unknown	3/28/2018 9:23:58 PM	7810	2.11	7679	N/A	92.141423	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	59840	2.09	5805	1010.00000	1083.447800	107
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	300500	2.09	6589	N/A	4849.920283	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	7379	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	193600	2.09	7217	N/A	2845.457639	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	13530	2.05	3862	N/A	357.417082	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	424500	2.06	3453	N/A	13102.115121	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	495400	2.06	4136	N/A	12765.610500	N/A

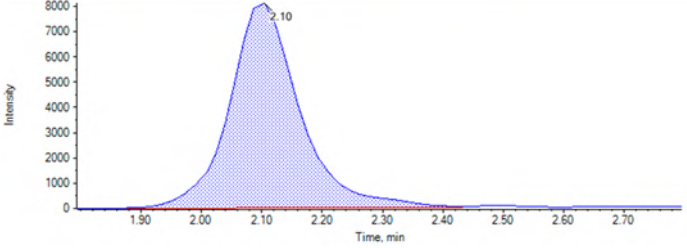
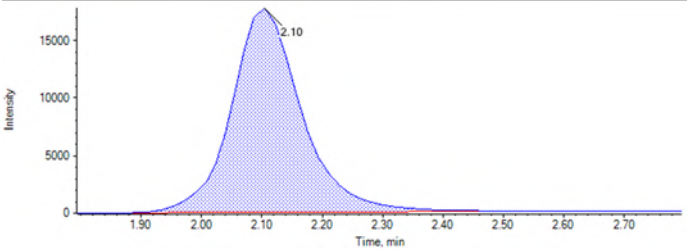
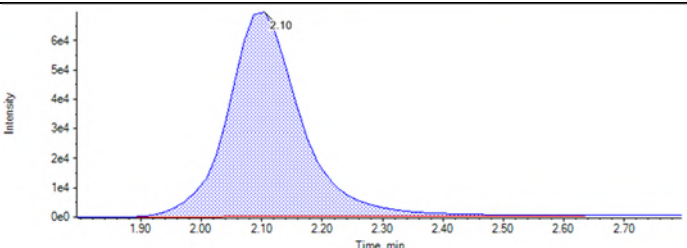
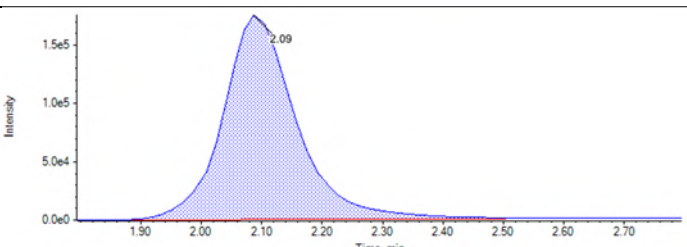
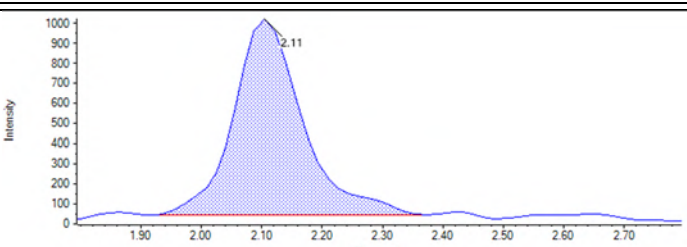
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	182800	2.09	6631	N/A	2924.545378	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	9094	2.09	4202	N/A	214.526343	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	6378	2.10	6422	N/A	89.582777	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	77580	2.09	7008	1010.00000	1164.747548	115
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	16350	2.09	5301	N/A	312.782296	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	134800	2.09	7747	N/A	1839.848413	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	7281	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	78840	2.08	3937	N/A	2120.514787	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	56850	2.09	5121	N/A	1168.309503	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	7418	2.08	7852	N/A	84.419055	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	179300	2.09	7136	2525.00000	2664.600384	106

**Chromatograms:**

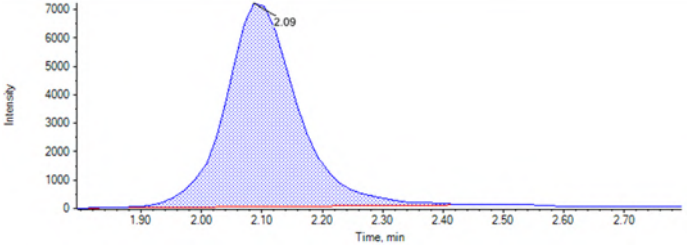
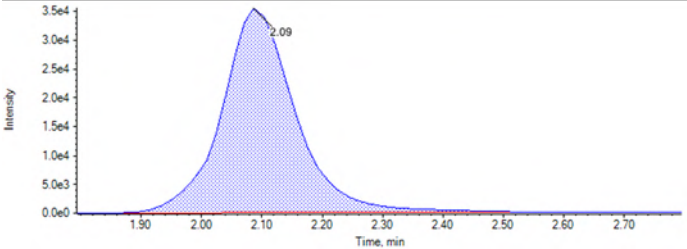
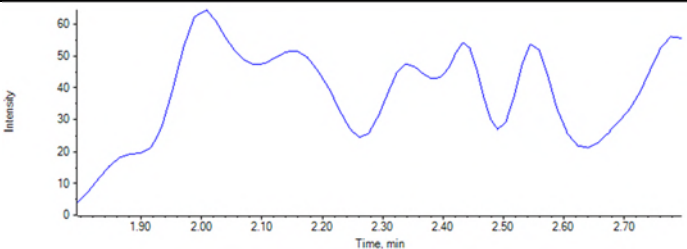
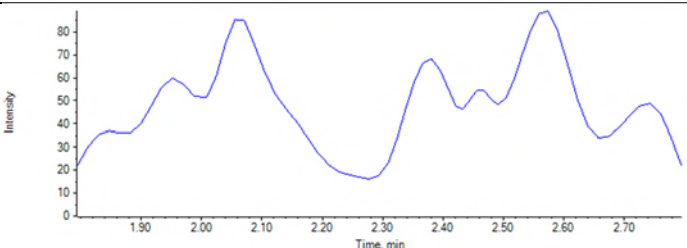
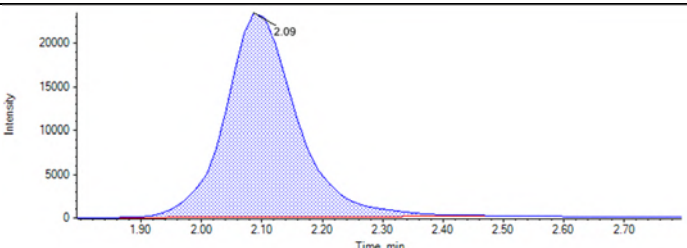
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram displays intensity on the y-axis (ranging from 0 to 250) against time in minutes on the x-axis (ranging from 1.50 to 2.70). A prominent peak is observed at approximately 2.10 minutes, reaching an intensity of about 250. There are several smaller peaks and fluctuations throughout the run, notably around 1.90, 2.30, 2.40, and 2.60 minutes.</p>
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<p>JU04</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 21.106561 ng/L</p> <p>Area: 2.654e3</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.11 (2.00) min</p> <p>Calculated Conc: 60.509038 ng/L</p> <p>Area: 4.183e3</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.11 (2.00) min</p> <p>Calculated Conc: 79.595844 ng/L</p> <p>Area: 6.508e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 238.852883 ng/L</p> <p>Area: 1.767e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 486.949855 ng/L</p> <p>Area: 2.886e4</p> <p>Modified: (False)</p>	

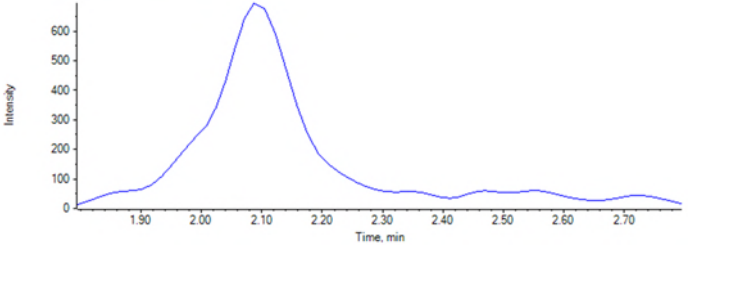
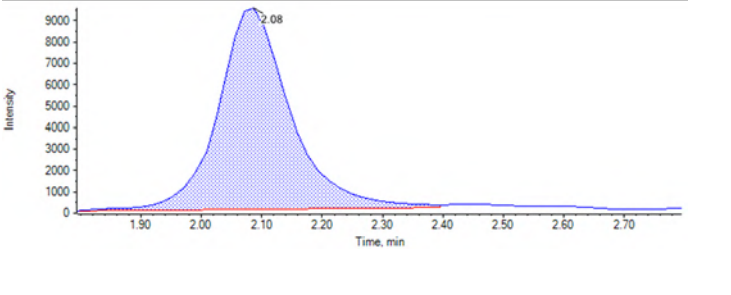
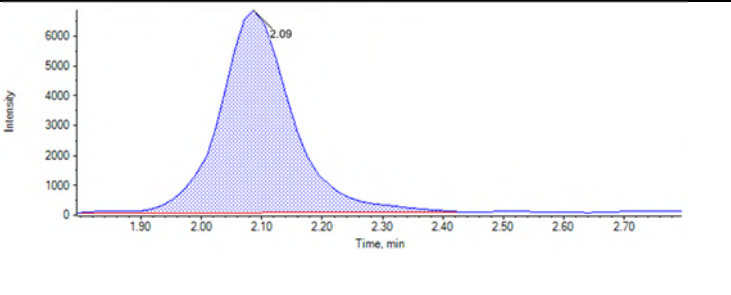
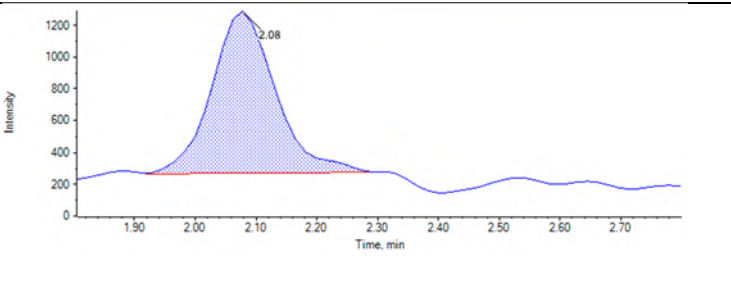
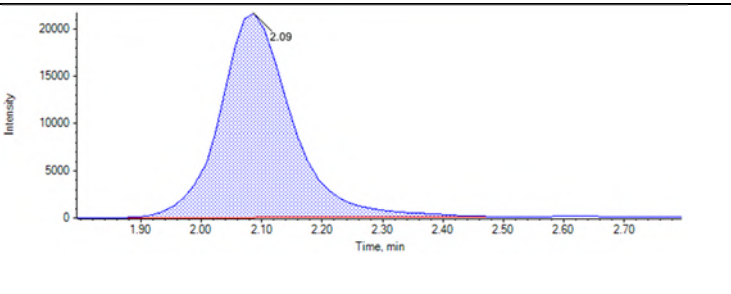
<p>JU09</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 1167.168355 ng/L</p> <p>Area: 6.579e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 2796.910116 ng/L</p> <p>Area: 1.439e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 10568.937184 ng/L</p> <p>Area: 5.896e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 19349.220166 ng/L</p> <p>Area: 1.482e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.11 (2.00) min</p> <p>Calculated Conc: 92.141423 ng/L</p> <p>Area: 7.810e3</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 1083.447800 ng/L</p> <p>Area: 5.984e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 4849.920283 ng/L</p> <p>Area: 3.005e5</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 2845.457639 ng/L</p> <p>Area: 1.936e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 2.05 (2.00) min</p> <p>Calculated Conc: 357.417082 ng/L</p> <p>Area: 1.353e4</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 13102.115121 ng/L</p> <p>Area: 4.245e5</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 12765.610500 ng/L</p> <p>Area: 4.954e5</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 2924.545378 ng/L</p> <p>Area: 1.828e5</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 214.526343 ng/L</p> <p>Area: 9.094e3</p> <p>Modified: (True)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 89.582777 ng/L</p> <p>Area: 6.378e3</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 1164.747548 ng/L</p> <p>Area: 7.758e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 312.782296 ng/L</p> <p>Area: 1.635e4</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 1839.848413 ng/L</p> <p>Area: 1.348e5</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 2120.514787 ng/L</p> <p>Area: 7.884e4</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 1168.309503 ng/L</p> <p>Area: 5.685e4</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 84.419055 ng/L</p> <p>Area: 7.418e3</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 2664.600384 ng/L</p> <p>Area: 1.793e5</p> <p>Modified: (False)</p>	

**Analyte:** PFOA\_1 (413.0 / 369.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

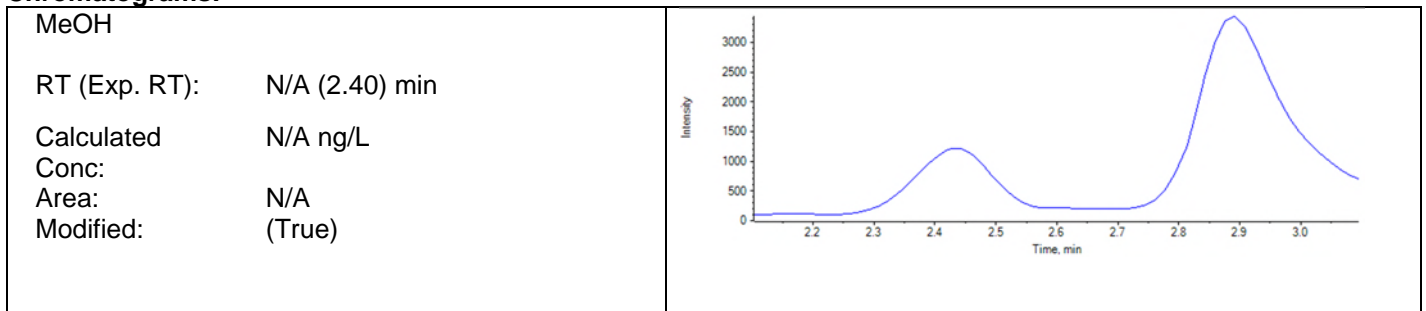
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	10060	2.46	31110	25.00000	47.399545	190
JU05	Standard	3/28/2018 7:57:43 PM	13130	2.46	26830	50.00000	64.906343	130
JU06	Standard	3/28/2018 8:08:31 PM	23410	2.46	27320	100.00000	103.754820	104
JU07	Standard	3/28/2018 8:19:19 PM	67390	2.46	30630	250.00000	245.616257	98
JU08	Standard	3/28/2018 8:30:06 PM	104900	2.46	27800	500.00000	411.578937	82
JU09	Standard	3/28/2018 8:40:53 PM	230400	2.45	26380	1000.00000	935.494107	94
JU10	Standard	3/28/2018 8:51:40 PM	511600	2.46	24570	2500.00000	2212.000554	88
JU11	Standard	3/28/2018 9:02:26 PM	2233000	2.45	22840	10000.00000	10341.505236	103
JU12	Standard	3/28/2018 9:13:13 PM	5739000	2.45	30190	20000.00000	20085.143746	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	29440	2.46	31870	N/A	110.785931	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	207400	2.45	25020	1000.00000	888.391572	89
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	2334000	2.41	33220	N/A	7433.586415	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	12460	2.45	31720	N/A	54.711400	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	706600	2.45	29920	N/A	2507.301289	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	1901000	2.42	15760	N/A	12751.784036	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	3166000	2.42	15750	N/A	21245.942945	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	3378000	2.42	16350	N/A	21838.602259	N/A

Not being used in this calibration.  
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	428700	2.44	20470	N/A	2225.196740	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	1799000	2.44	19970	N/A	9527.843107	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	75830	2.44	33900	N/A	249.436560	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	276600	2.44	33260	1000.00000	891.421762	89
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	252000	2.44	22570	N/A	1192.469092	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	4779000 0	2.44	25280	N/A	199689.98319 0	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	2294000	2.44	30160	N/A	8047.221486	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	19820	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	3531000	2.44	22370	N/A	16678.371790	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	2620000	2.43	26180	N/A	10583.206112	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	667900	2.44	30970	2500.00000	2290.433913	92

**Chromatograms:**





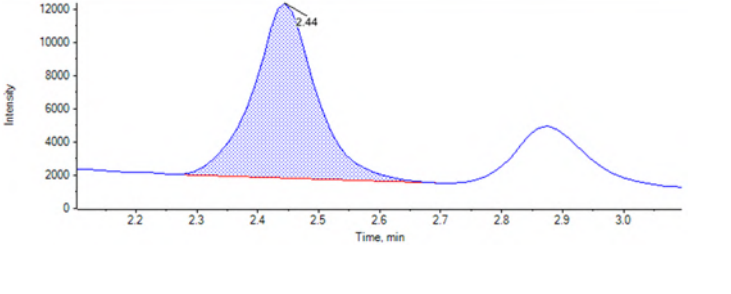
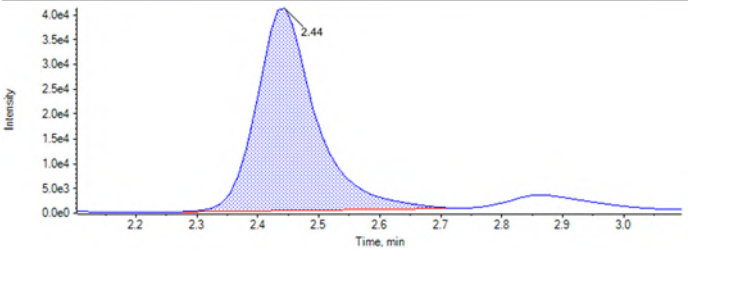
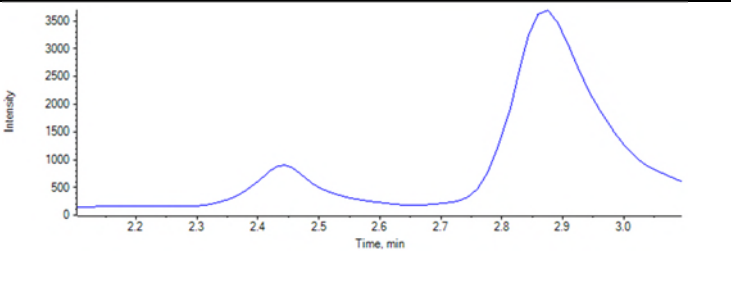
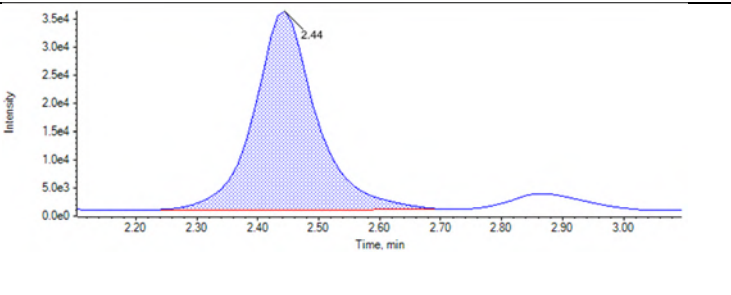
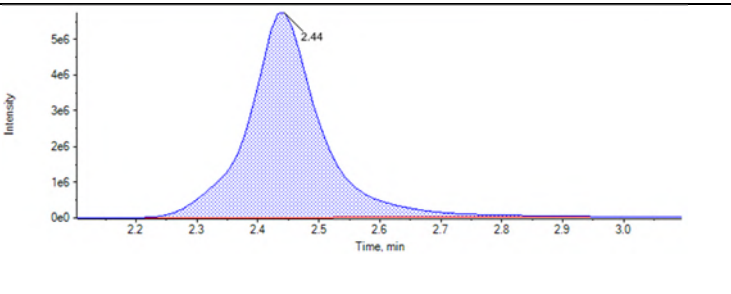
<p>JU04</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 47.399545 ng/L</p> <p>Area: 1.006e4</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 64.906343 ng/L</p> <p>Area: 1.313e4</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 103.754820 ng/L</p> <p>Area: 2.341e4</p> <p>Modified: (True)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 245.616257 ng/L</p> <p>Area: 6.739e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 411.578937 ng/L</p> <p>Area: 1.049e5</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 935.494107 ng/L</p> <p>Area: 2.304e5</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 2212.000554 ng/L</p> <p>Area: 5.116e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 10341.505236 ng/L</p> <p>Area: 2.233e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 20085.143746 ng/L</p> <p>Area: 5.739e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 110.785931 ng/L</p> <p>Area: 2.944e4</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 888.391572 ng/L</p> <p>Area: 2.074e5</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.41 (2.40) min</p> <p>Calculated Conc: 7433.586415 ng/L</p> <p>Area: 2.334e6</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 54.711400 ng/L</p> <p>Area: 1.246e4</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 2507.301289 ng/L</p> <p>Area: 7.066e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 2.42 (2.40) min</p> <p>Calculated Conc: 12751.784036 ng/L</p> <p>Area: 1.901e6</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.42 (2.40) min</p> <p>Calculated Conc: 21245.942945 ng/L</p> <p>Area: 3.166e6</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.42 (2.40) min</p> <p>Calculated Conc: 21838.602259 ng/L</p> <p>Area: 3.378e6</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 2225.196740 ng/L</p> <p>Area: 4.287e5</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 9527.843107 ng/L</p> <p>Area: 1.799e6</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 249.436560 ng/L</p> <p>Area: 7.583e4</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 891.421762 ng/L</p> <p>Area: 2.766e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 1192.469092 ng/L</p> <p>Area: 2.520e5</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 199689.983190 ng/L</p> <p>Area: 4.779e7</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 8047.221486 ng/L</p> <p>Area: 2.294e6</p> <p>Modified: (False)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 16678.371790 ng/L</p> <p>Area: 3.531e6</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.43 (2.40) min</p> <p>Calculated Conc: 10583.206112 ng/L</p> <p>Area: 2.620e6</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 2290.433913 ng/L</p> <p>Area: 6.679e5</p> <p>Modified: (False)</p>	

**Analyte:** PFOA\_2 (413.0 / 169.0)

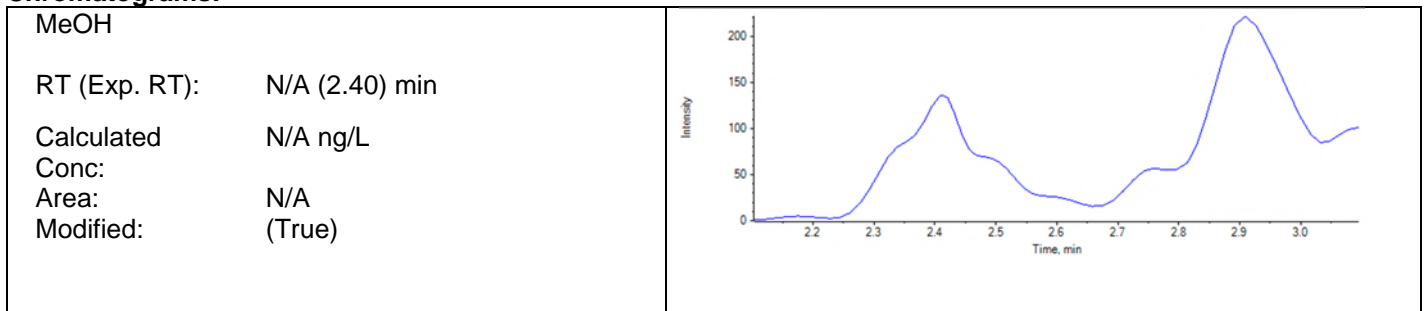
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	1266	2.46	31110	25.00000	77.120888	308
JU05	Standard	3/28/2018 7:57:43 PM	560	2.46	26830	50.00000	46.202837	92
JU06	Standard	3/28/2018 8:08:31 PM	2029	2.46	27320	100.00000	129.513486	130
JU07	Standard	3/28/2018 8:19:19 PM	4652	2.46	30630	250.00000	250.652124	100
JU08	Standard	3/28/2018 8:30:06 PM	7548	2.45	27800	500.00000	437.291935	87
JU09	Standard	3/28/2018 8:40:53 PM	15620	2.45	26380	1000.00000	937.461254	94
JU10	Standard	3/28/2018 8:51:40 PM	36670	2.45	24570	2500.00000	2342.170705	94
JU11	Standard	3/28/2018 9:02:26 PM	151000	2.45	22840	10000.00000	10329.022157	103
JU12	Standard	3/28/2018 9:13:13 PM	385300	2.45	30190	20000.00000	19927.685501	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	2095	2.46	31870	N/A	116.174274	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	14710	2.45	25020	1000.00000	931.192244	93
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	232900	2.39	33220	N/A	10956.802097	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	1395	2.44	31720	N/A	82.260050	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	49860	2.45	29920	N/A	2614.105549	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	162700	2.41	15760	N/A	16119.592668	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	250400	2.41	15750	N/A	24822.298991	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	266300	2.42	16350	N/A	25430.879048	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	43570	2.43	20470	N/A	3334.937832	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	173000	2.42	19970	N/A	13530.993021	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	8405	2.43	33900	N/A	400.471361	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	20330	2.44	33260	1000.00000	967.593144	97
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	22130	2.44	22570	N/A	1543.412665	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	5219000	2.41	25280	N/A	322211.454773	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	30160	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	247400	2.43	19820	N/A	19499.512586	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	334800	2.43	22370	N/A	23364.390661	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	248700	2.41	26180	N/A	14838.844043	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	47970	2.44	30970	2500.00000	2430.516236	97

**Chromatograms:**

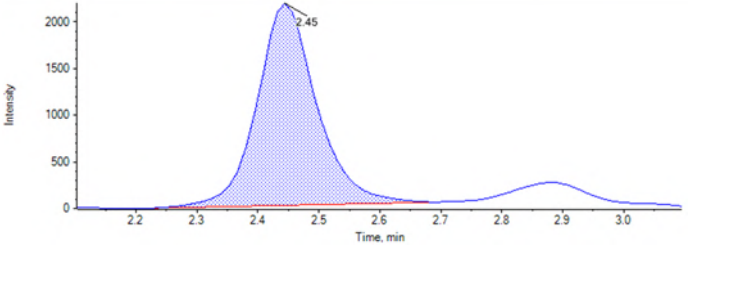
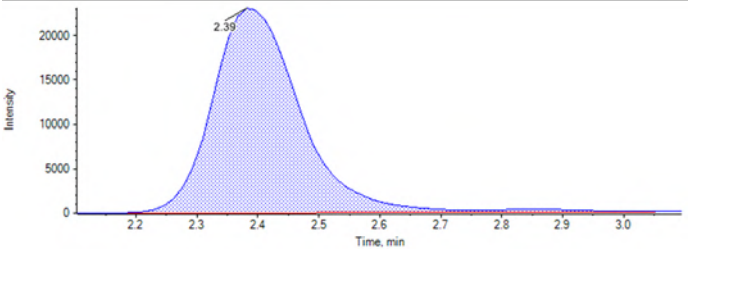
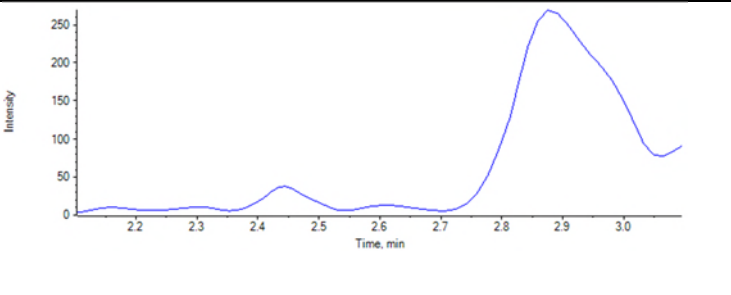
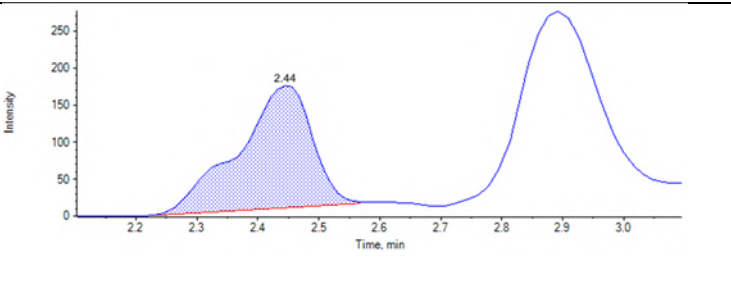
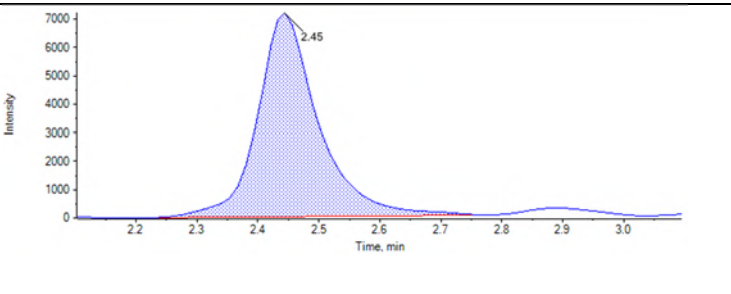


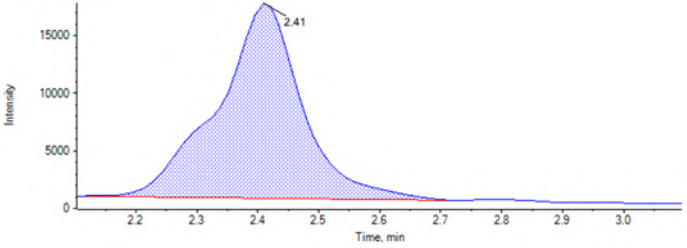
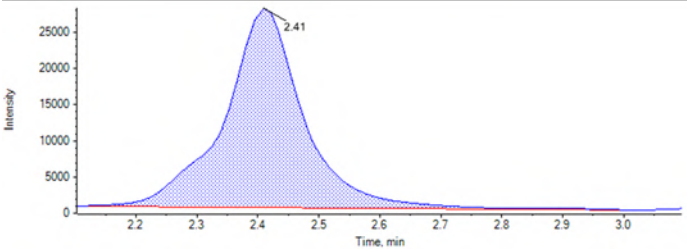
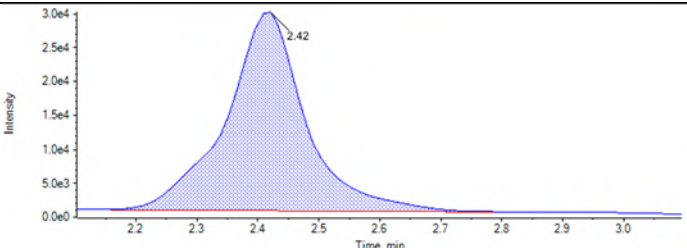
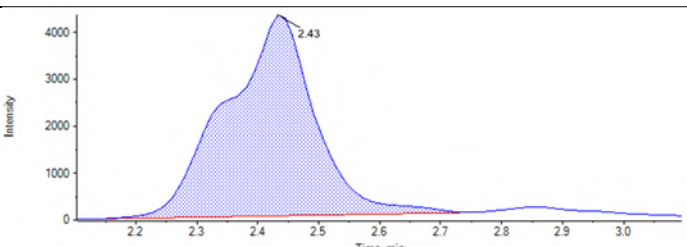
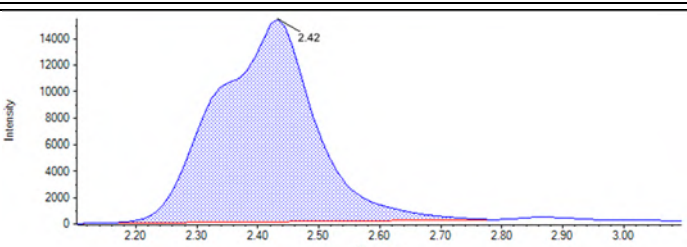


<p>JU04</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 77.120888 ng/L</p> <p>Area: 1.266e3</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 46.202837 ng/L</p> <p>Area: 5.603e2</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 129.513486 ng/L</p> <p>Area: 2.029e3</p> <p>Modified: (True)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 250.652124 ng/L</p> <p>Area: 4.652e3</p> <p>Modified: (True)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 437.291935 ng/L</p> <p>Area: 7.548e3</p> <p>Modified: (False)</p>	

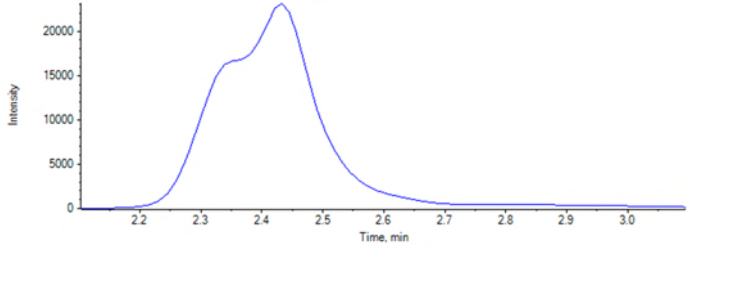
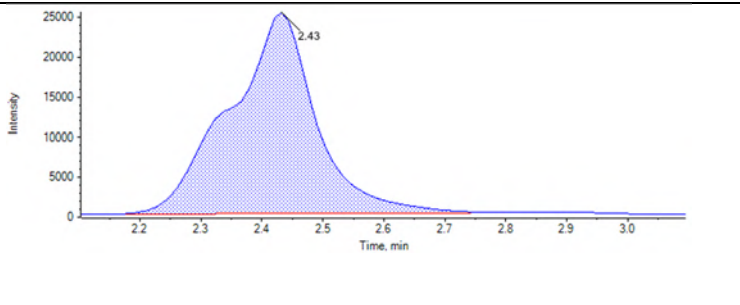
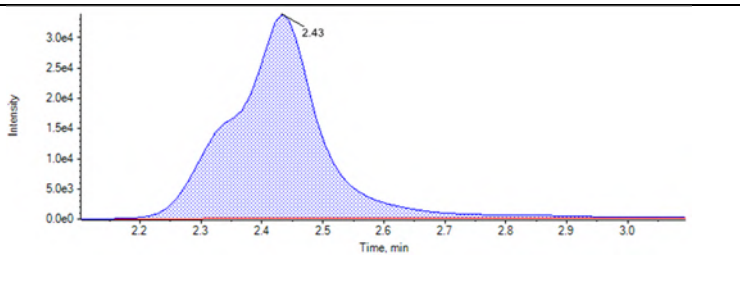
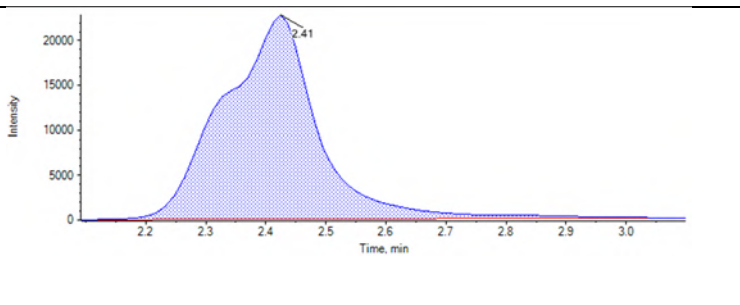
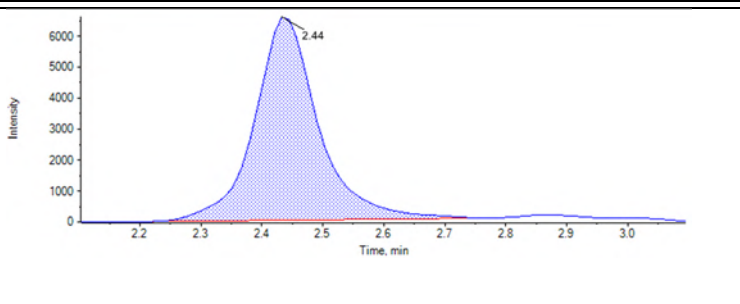
<p>JU09</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 937.461254 ng/L</p> <p>Area: 1.562e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 2342.170705 ng/L</p> <p>Area: 3.667e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 10329.022157 ng/L</p> <p>Area: 1.510e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 19927.685501 ng/L</p> <p>Area: 3.853e5</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.46 (2.40) min</p> <p>Calculated Conc: 116.174274 ng/L</p> <p>Area: 2.095e3</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 931.192244 ng/L</p> <p>Area: 1.471e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.39 (2.40) min</p> <p>Calculated Conc: 10956.802097 ng/L</p> <p>Area: 2.329e5</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 82.260050 ng/L</p> <p>Area: 1.395e3</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 2614.105549 ng/L</p> <p>Area: 4.986e4</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 2.41 (2.40) min</p> <p>Calculated Conc: 16119.592668 ng/L</p> <p>Area: 1.627e5</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.41 (2.40) min</p> <p>Calculated Conc: 24822.298991 ng/L</p> <p>Area: 2.504e5</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.42 (2.40) min</p> <p>Calculated Conc: 25430.879048 ng/L</p> <p>Area: 2.663e5</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 2.43 (2.40) min</p> <p>Calculated Conc: 3334.937832 ng/L</p> <p>Area: 4.357e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 2.42 (2.40) min</p> <p>Calculated Conc: 13530.993021 ng/L</p> <p>Area: 1.730e5</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 2.43 (2.40) min</p> <p>Calculated Conc: 400.471361 ng/L</p> <p>Area: 8.405e3</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 967.593144 ng/L</p> <p>Area: 2.033e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 1543.412665 ng/L</p> <p>Area: 2.213e4</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 2.41 (2.40) min</p> <p>Calculated Conc: 322211.454773 ng/L</p> <p>Area: 5.219e6</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 2.43 (2.40) min</p> <p>Calculated Conc: 19499.512586 ng/L</p> <p>Area: 2.474e5</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.43 (2.40) min</p> <p>Calculated Conc: 23364.390661 ng/L</p> <p>Area: 3.348e5</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.41 (2.40) min</p> <p>Calculated Conc: 14838.844043 ng/L</p> <p>Area: 2.487e5</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 2430.516236 ng/L</p> <p>Area: 4.797e4</p> <p>Modified: (False)</p>	

**Analyte:** PFNA\_1 (463.0 / 419.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

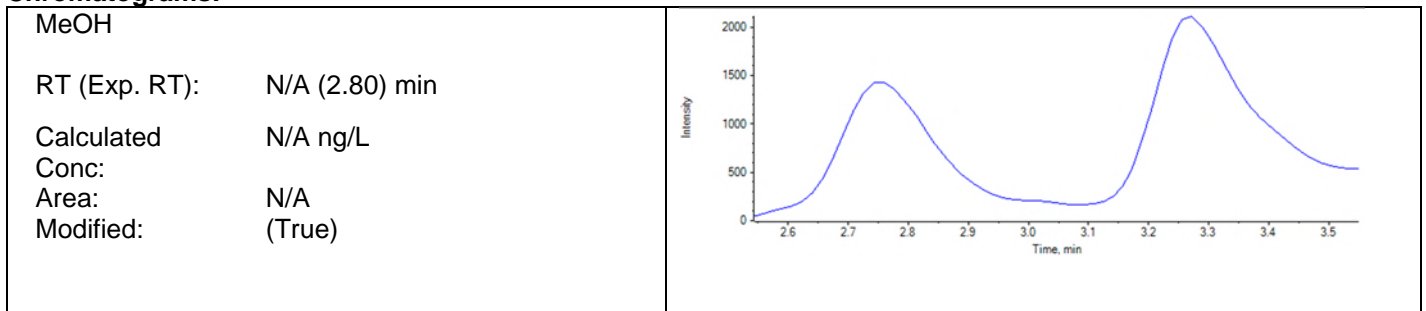
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	11170	2.83	38690	25.00000	26.408705	106
JU05	Standard	3/28/2018 7:57:43 PM	18100	2.84	31190	50.00000	57.571578	115
JU06	Standard	3/28/2018 8:08:31 PM	35880	2.84	33210	100.00000	110.965588	111
JU07	Standard	3/28/2018 8:19:19 PM	79620	2.84	38790	250.00000	214.792597	86
JU08	Standard	3/28/2018 8:30:06 PM	143700	2.84	32180	500.00000	472.424505	94
JU09	Standard	3/28/2018 8:40:53 PM	292500	2.84	34990	1000.00000	888.246591	89
JU10	Standard	3/28/2018 8:51:40 PM	664100	2.84	29550	2500.00000	2395.783223	96
JU11	Standard	3/28/2018 9:02:26 PM	2806000	2.84	28850	10000.00000	10380.894532	104
JU12	Standard	3/28/2018 9:13:13 PM	6765000	2.83	36340	20000.00000	19877.912682	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	37930	2.84	37790	N/A	102.780857	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	266100	2.83	31570	1000.00000	895.801694	90
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	2469000	2.73	35440	N/A	7438.039817	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	38790	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	855000	2.83	35680	N/A	2554.783638	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	19680	2.82	17600	N/A	115.008655	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1445000	2.81	19870	N/A	7762.805852	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1520000	2.81	20970	N/A	7737.757791	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	21360	2.83	24970	N/A	86.976805	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	19970	2.82	20680	N/A	98.714403	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	11650	2.83	35790	N/A	30.345257	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	351300	2.82	39780	1000.00000	938.630977	94
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	8952	2.83	25080	N/A	33.699982	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	70960	2.74	27810	N/A	268.071902	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>35760</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	20880	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	26180	2.76	22840	N/A	118.039692	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	14610	2.81	30060	N/A	47.487412	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	825300	2.82	37290	2500.00000	2359.216259	94

Dilution not needed. DMS 4/4/2018

**Chromatograms:**





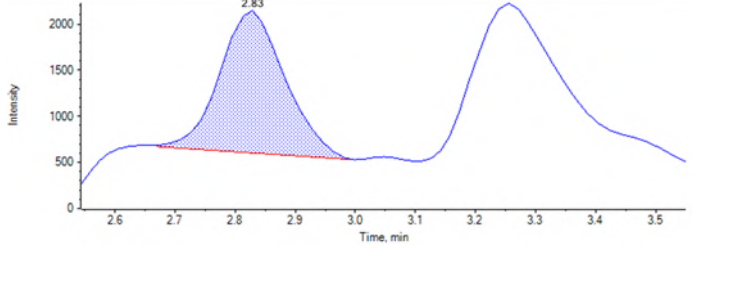
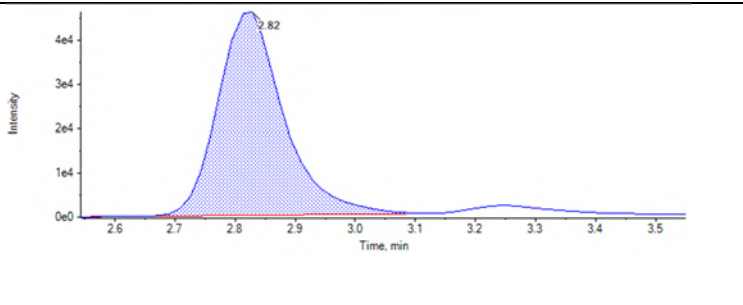
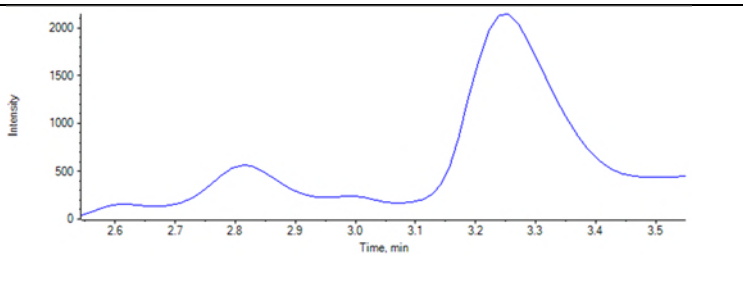
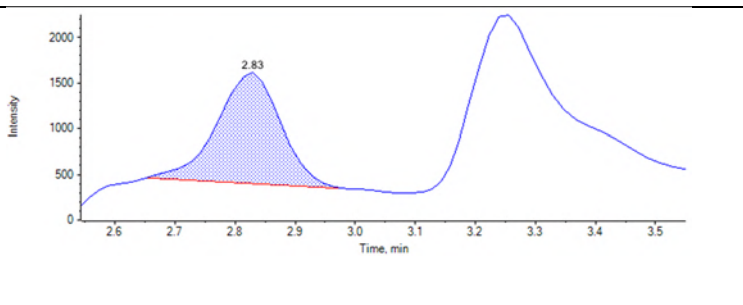
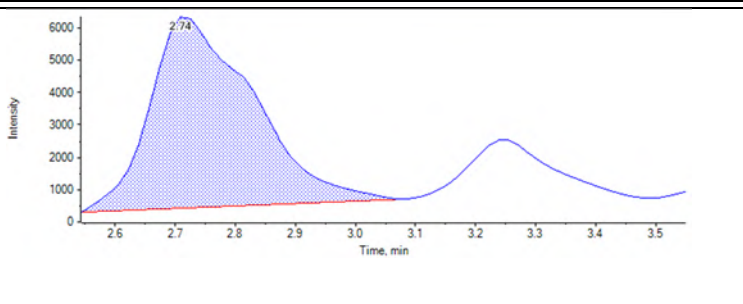
<p>JU04</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 26.408705 ng/L</p> <p>Area: 1.117e4</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 57.571578 ng/L</p> <p>Area: 1.810e4</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 110.965588 ng/L</p> <p>Area: 3.588e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 214.792597 ng/L</p> <p>Area: 7.962e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 472.424505 ng/L</p> <p>Area: 1.437e5</p> <p>Modified: (False)</p>	

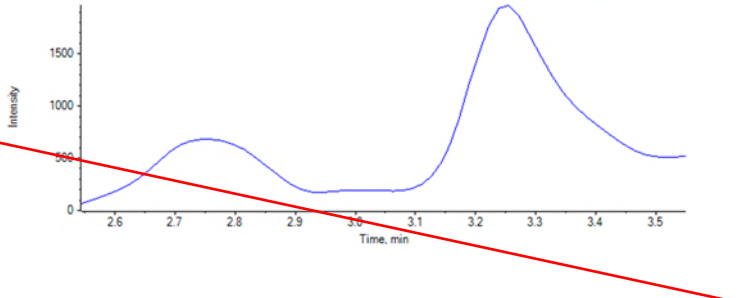
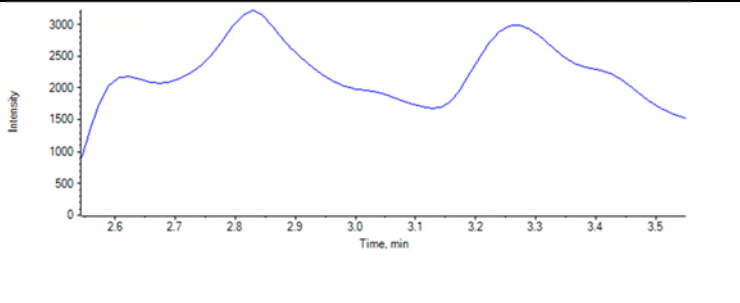
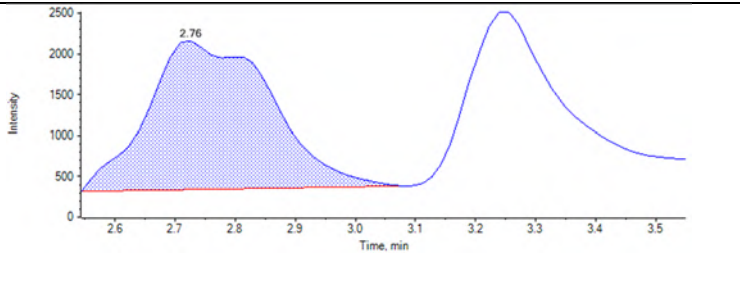
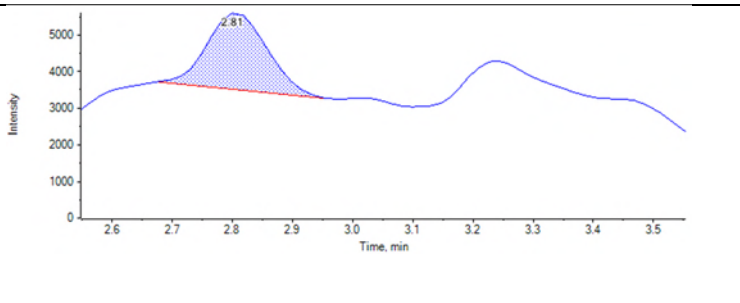
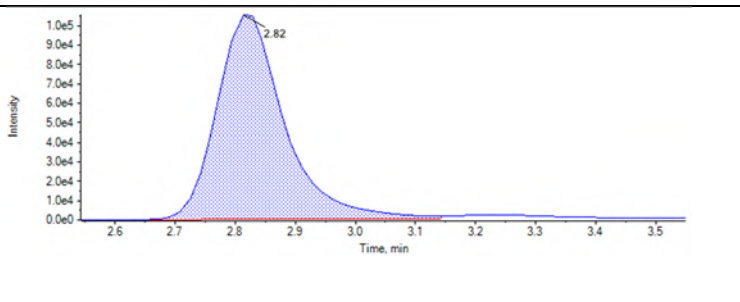
<p>JU09</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 888.246591 ng/L</p> <p>Area: 2.925e5</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 2395.783223 ng/L</p> <p>Area: 6.641e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 10380.894532 ng/L</p> <p>Area: 2.806e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 19877.912682 ng/L</p> <p>Area: 6.765e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 102.780857 ng/L</p> <p>Area: 3.793e4</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 895.801694 ng/L</p> <p>Area: 2.661e5</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.73 (2.80) min</p> <p>Calculated Conc: 7438.039817 ng/L</p> <p>Area: 2.469e6</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 2554.783638 ng/L</p> <p>Area: 8.550e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 115.008655 ng/L</p> <p>Area: 1.968e4</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 7762.805852 ng/L</p> <p>Area: 1.445e6</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 7737.757791 ng/L</p> <p>Area: 1.520e6</p> <p>Modified: (True)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 86.976805 ng/L</p> <p>Area: 2.136e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 98.714403 ng/L</p> <p>Area: 1.997e4</p> <p>Modified: (True)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 30.345257 ng/L</p> <p>Area: 1.165e4</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 938.630977 ng/L</p> <p>Area: 3.513e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 33.699982 ng/L</p> <p>Area: 8.952e3</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 2.74 (2.80) min</p> <p>Calculated Conc: 268.071902 ng/L</p> <p>Area: 7.096e4</p> <p>Modified: (False)</p>	

<p><del>J5394-FS-D(5)</del></p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.76 (2.80) min</p> <p>Calculated Conc: 118.039692 ng/L</p> <p>Area: 2.618e4</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 47.487412 ng/L</p> <p>Area: 1.461e4</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 2359.216259 ng/L</p> <p>Area: 8.253e5</p> <p>Modified: (False)</p>	

**Analyte:** PFNA\_2 (463.0 / 219.0)

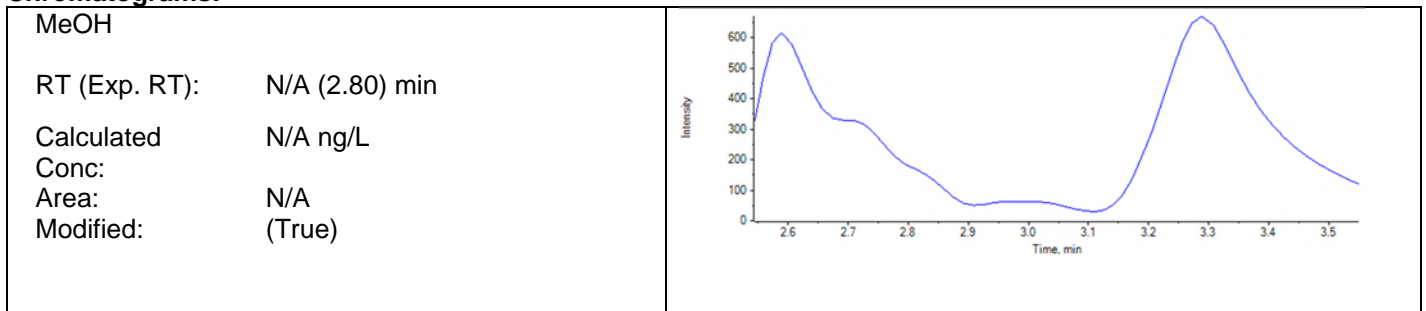
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

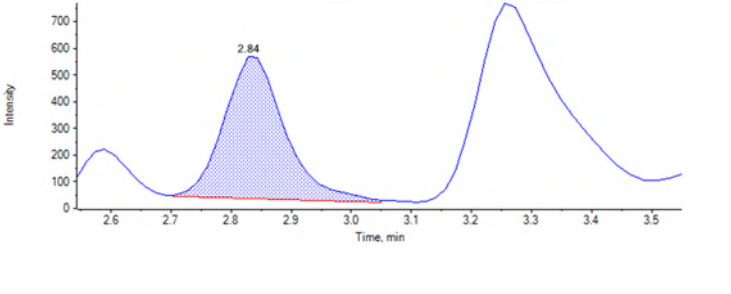
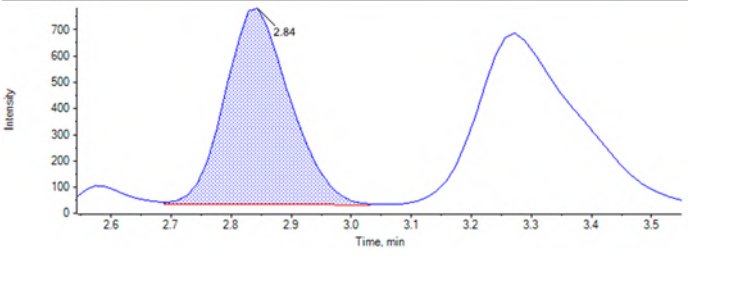
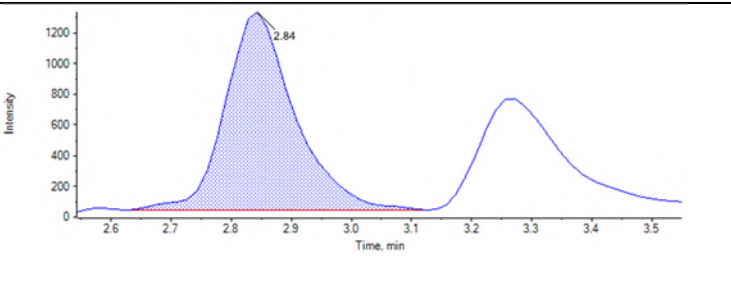
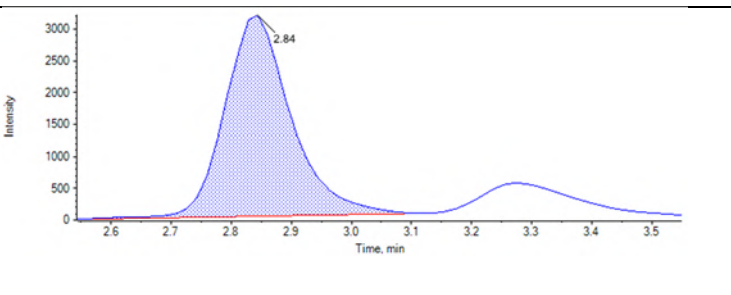
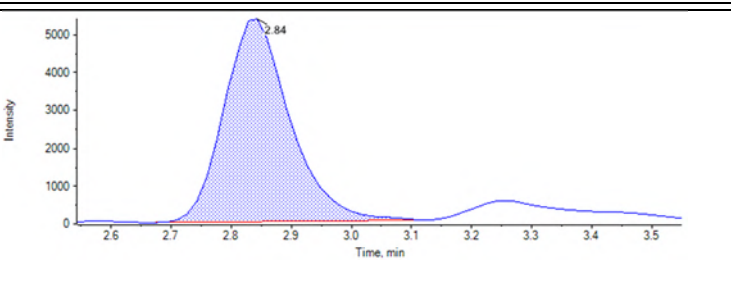
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	3744	2.84	38690	25.00000	28.172571	113
JU05	Standard	3/28/2018 7:57:43 PM	5644	2.84	31190	50.00000	58.909086	118
JU06	Standard	3/28/2018 8:08:31 PM	10370	2.84	33210	100.00000	106.814777	107
JU07	Standard	3/28/2018 8:19:19 PM	24150	2.84	38790	250.00000	220.169138	88
JU08	Standard	3/28/2018 8:30:06 PM	40990	2.84	32180	500.00000	457.975669	92
JU09	Standard	3/28/2018 8:40:53 PM	82460	2.84	34990	1000.00000	853.213868	85
JU10	Standard	3/28/2018 8:51:40 PM	191200	2.84	29550	2500.00000	2354.800788	94
JU11	Standard	3/28/2018 9:02:26 PM	818800	2.83	28850	10000.00000	10355.167921	104
JU12	Standard	3/28/2018 9:13:13 PM	1990000	2.83	36340	20000.00000	19989.776181	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	12180	2.84	37790	N/A	110.520101	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	79040	2.83	31570	1000.00000	907.121359	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	35440	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	38790	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	247500	2.83	35680	N/A	2525.188820	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	17600	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	426100	2.81	19870	N/A	7821.764498	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	438200	2.82	20970	N/A	7622.253545	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	6692	2.82	24970	N/A	90.702700	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	5466	2.83	20680	N/A	89.336076	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	3581	2.83	35790	N/A	29.366866	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	102000	2.82	39780	1000.00000	928.798638	93
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	2610	2.83	25080	N/A	30.835030	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	27810	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	35760	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	20880	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	22840	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	4631	2.81	30060	N/A	49.095832	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	235200	2.82	37290	2500.00000	2295.800040	92

**Chromatograms:**



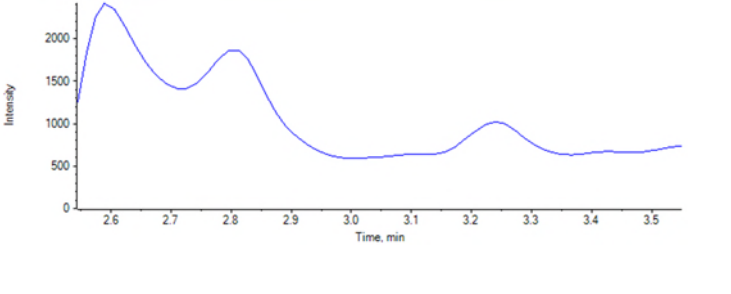
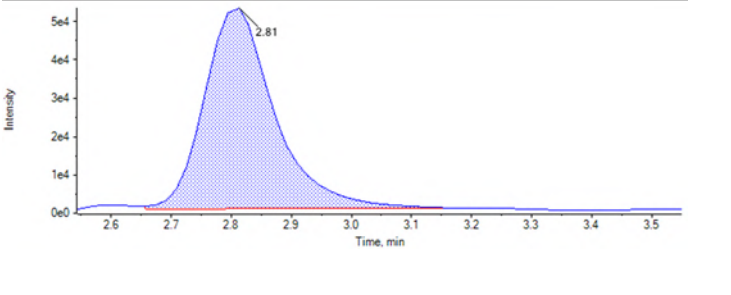
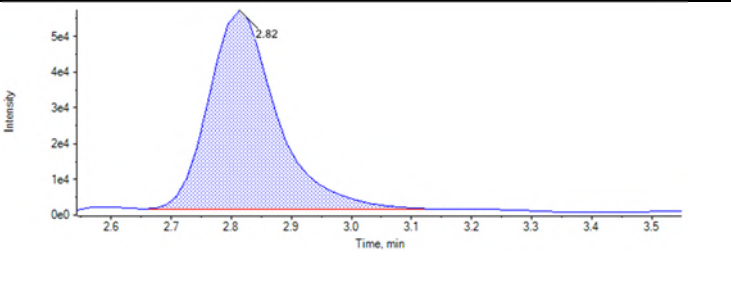
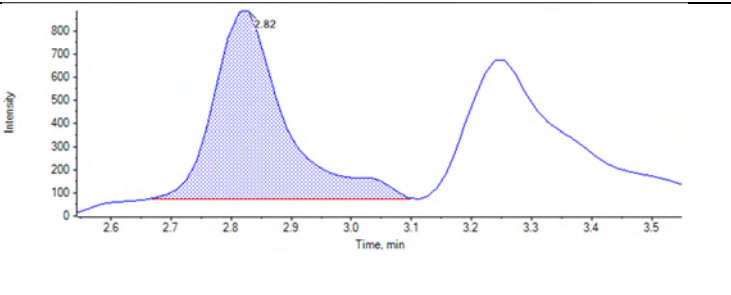
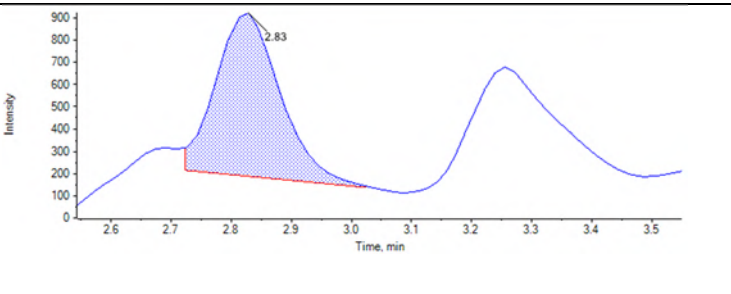


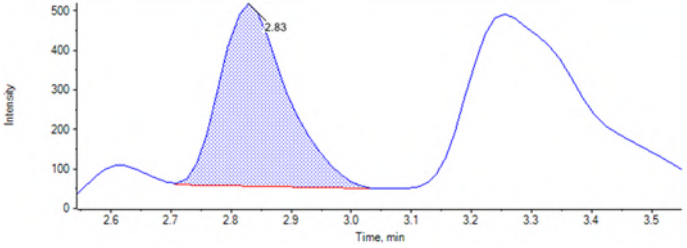
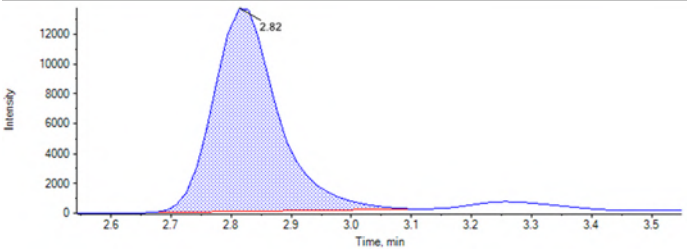
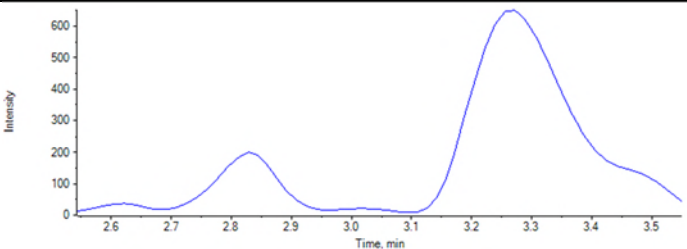
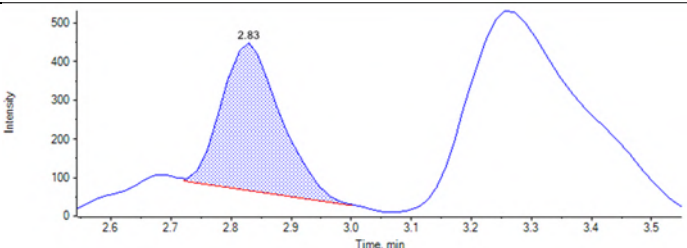
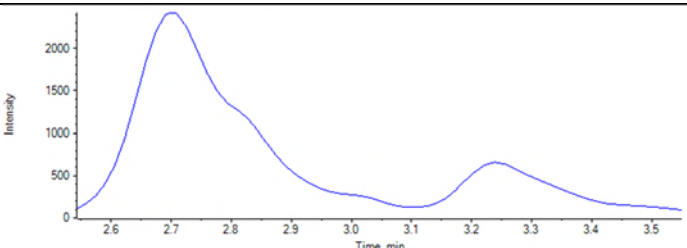
<p>JU04</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 28.172571 ng/L</p> <p>Area: 3.744e3</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 58.909086 ng/L</p> <p>Area: 5.644e3</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 106.814777 ng/L</p> <p>Area: 1.037e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 220.169138 ng/L</p> <p>Area: 2.415e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 457.975669 ng/L</p> <p>Area: 4.099e4</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 853.213868 ng/L</p> <p>Area: 8.246e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 2354.800788 ng/L</p> <p>Area: 1.912e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 10355.167921 ng/L</p> <p>Area: 8.188e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 19989.776181 ng/L</p> <p>Area: 1.990e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 110.520101 ng/L</p> <p>Area: 1.218e4</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 907.121359 ng/L</p> <p>Area: 7.904e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 2525.188820 ng/L</p> <p>Area: 2.475e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 7821.764498 ng/L</p> <p>Area: 4.261e5</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 7622.253545 ng/L</p> <p>Area: 4.382e5</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 90.702700 ng/L</p> <p>Area: 6.692e3</p> <p>Modified: (True)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 89.336076 ng/L</p> <p>Area: 5.466e3</p> <p>Modified: (True)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 29.366866 ng/L</p> <p>Area: 3.581e3</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 928.798638 ng/L</p> <p>Area: 1.020e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 30.835030 ng/L</p> <p>Area: 2.610e3</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 49.095832 ng/L</p> <p>Area: 4.631e3</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 2295.800040 ng/L</p> <p>Area: 2.352e5</p> <p>Modified: (False)</p>	

**Analyte:** PFOS\_1 (499.0 / 80.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	17760	2.80	11100	25.00000	40.862354	163
JU05	Standard	3/28/2018 7:57:43 PM	19440	2.83	8265	50.00000	59.585154	119
JU06	Standard	3/28/2018 8:08:31 PM	38310	2.84	7900	100.00000	121.841415	122
JU07	Standard	3/28/2018 8:19:19 PM	87110	2.84	9573	250.00000	227.760706	91
JU08	Standard	3/28/2018 8:30:06 PM	143400	2.83	8211	500.00000	436.117197	87
JU09	Standard	3/28/2018 8:40:53 PM	310700	2.83	8161	1000.00000	949.783027	95
JU10	Standard	3/28/2018 8:51:40 PM	717300	2.83	8987	2500.00000	1989.930640	80
JU11	Standard	3/28/2018 9:02:26 PM	2827000	2.83	6646	10000.00000	10602.023283	106
JU12	Standard	3/28/2018 9:13:13 PM	6893000	2.83	8583	20000.00000	20012.958577	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	37500	2.84	8334	N/A	113.116922	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	293400	2.83	8239	1000.00000	888.359793	89
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	5743000	2.72	8675	N/A	16499.025614	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	2954	2.75	10890	N/A	7.746986	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	878900	2.83	8218	N/A	2666.091713	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	4370	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1437000	2.81	4179	N/A	8571.775769	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1625000	2.81	4950	N/A	8181.911820	N/A

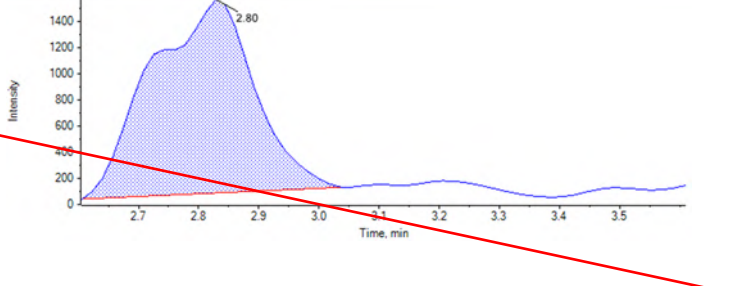
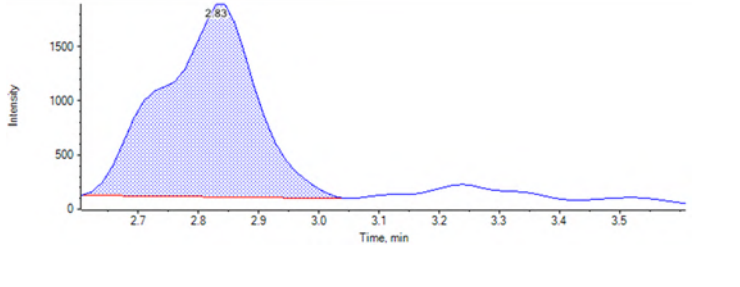
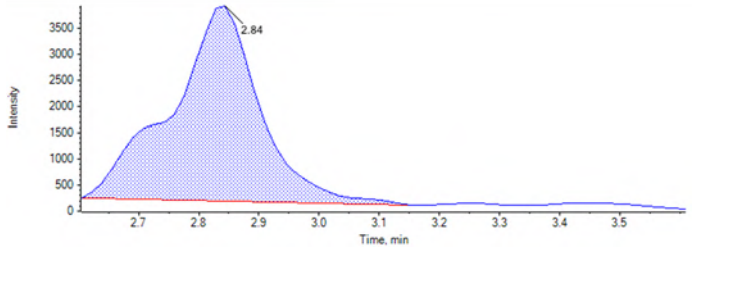
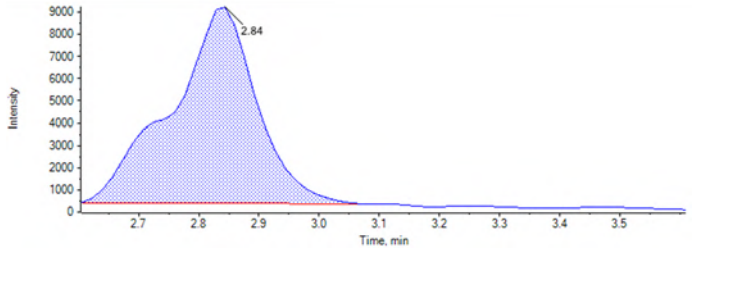
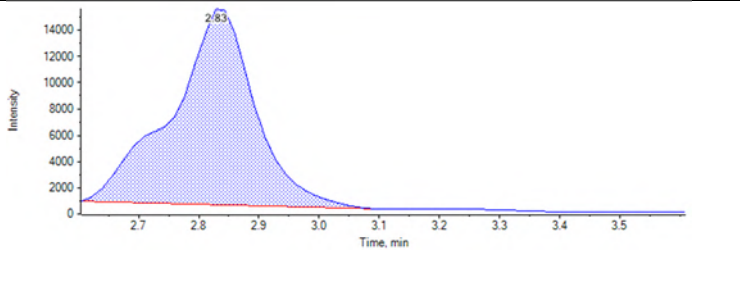
Not being used in this calibration.  
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	56470	2.76	7901	N/A	179.084030	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	253200	2.78	5953	N/A	1061.034530	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	138600	2.79	8884	N/A	389.839482	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	359200	2.82	9970	1000.00000	898.867250	90
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	210900	2.71	7919	N/A	664.727323	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	725600	2.79	7021	N/A	2576.314495	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>9554</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	594400	2.78	5037	N/A	2941.712559	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	225000	2.71	8203	N/A	684.609667	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	389000	2.77	8823	N/A	1099.822448	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	798700	2.82	8566	2500.00000	2324.753879	93

Dilution not needed.  
 DMS  
 4/4/2018

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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<p>JU04</p> <p>RT (Exp. RT): 2.80 (2.80) min</p> <p>Calculated Conc: 40.862354 ng/L</p> <p>Area: 1.776e4</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 59.585154 ng/L</p> <p>Area: 1.944e4</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 121.841415 ng/L</p> <p>Area: 3.831e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 227.760706 ng/L</p> <p>Area: 8.711e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 436.117197 ng/L</p> <p>Area: 1.434e5</p> <p>Modified: (False)</p>	



<p>JU09</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 949.783027 ng/L</p> <p>Area: 3.107e5</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 1989.930640 ng/L</p> <p>Area: 7.173e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 10602.023283 ng/L</p> <p>Area: 2.827e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 20012.958577 ng/L</p> <p>Area: 6.893e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 113.116922 ng/L</p> <p>Area: 3.750e4</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 888.359793 ng/L</p> <p>Area: 2.934e5</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.72 (2.80) min</p> <p>Calculated Conc: 16499.025614 ng/L</p> <p>Area: 5.743e6</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 2.75 (2.80) min</p> <p>Calculated Conc: 7.746986 ng/L</p> <p>Area: 2.954e3</p> <p>Modified: (False)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 2666.091713 ng/L</p> <p>Area: 8.789e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 8571.775769 ng/L</p> <p>Area: 1.437e6</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 8181.911820 ng/L</p> <p>Area: 1.625e6</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 2.76 (2.80) min</p> <p>Calculated Conc: 179.084030 ng/L</p> <p>Area: 5.647e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 2.78 (2.80) min</p> <p>Calculated Conc: 1061.034530 ng/L</p> <p>Area: 2.532e5</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 2.79 (2.80) min</p> <p>Calculated Conc: 389.839482 ng/L</p> <p>Area: 1.386e5</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 898.867250 ng/L</p> <p>Area: 3.592e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.71 (2.80) min</p> <p>Calculated Conc: 664.727323 ng/L</p> <p>Area: 2.109e5</p> <p>Modified: (False)</p>	
<p><del>J5394-FS(4)</del></p> <p><del>RT (Exp. RT): 2.79 (2.80) min</del></p> <p><del>Calculated Conc: 2576.314495 ng/L</del></p> <p><del>Area: 7.256e5</del></p> <p><del>Modified: (False)</del></p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 2.78 (2.80) min</p> <p>Calculated Conc: 2941.712559 ng/L</p> <p>Area: 5.944e5</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.71 (2.80) min</p> <p>Calculated Conc: 684.609667 ng/L</p> <p>Area: 2.250e5</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.77 (2.80) min</p> <p>Calculated Conc: 1099.822448 ng/L</p> <p>Area: 3.890e5</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 2324.753879 ng/L</p> <p>Area: 7.987e5</p> <p>Modified: (False)</p>	

**Analyte:** PFOS\_2 (499.0 / 99.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	3212	2.83	11100	25.00000	44.685540	179
JU05	Standard	3/28/2018 7:57:43 PM	3028	2.84	8265	50.00000	54.284882	109
JU06	Standard	3/28/2018 8:08:31 PM	7349	2.84	7900	100.00000	124.600002	125
JU07	Standard	3/28/2018 8:19:19 PM	16240	2.84	9573	250.00000	220.153966	88
JU08	Standard	3/28/2018 8:30:06 PM	31680	2.84	8211	500.00000	489.624992	98
JU09	Standard	3/28/2018 8:40:53 PM	62630	2.84	8161	1000.00000	965.520411	97
JU10	Standard	3/28/2018 8:51:40 PM	139500	2.84	8987	2500.00000	1944.107796	78
JU11	Standard	3/28/2018 9:02:26 PM	570100	2.83	6646	10000.00000	10703.751120	107
JU12	Standard	3/28/2018 9:13:13 PM	1369000	2.83	8583	20000.00000	19897.956831	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	8786	2.84	8334	N/A	140.049449	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	56220	2.83	8239	1000.00000	859.359202	86
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	741100	2.76	8675	N/A	10660.137967	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	10890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	178900	2.83	8218	N/A	2722.546023	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	12870	2.80	4370	N/A	375.702987	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	297200	2.81	4179	N/A	8873.929199	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	343300	2.82	4950	N/A	8655.768214	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	7149	2.79	7901	N/A	121.424052	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	46100	2.82	5953	N/A	974.087117	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	24940	2.83	8884	N/A	358.607984	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	74500	2.82	9970	1000.00000	940.190701	94
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	32370	2.78	7919	N/A	518.150316	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	126900	2.82	7021	N/A	2262.645932	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	9554	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	110300	2.82	5037	N/A	2738.953627	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	35250	2.77	8203	N/A	544.338528	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	62290	2.81	8823	N/A	888.781723	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	159600	2.82	8566	2500.00000	2331.526220	93

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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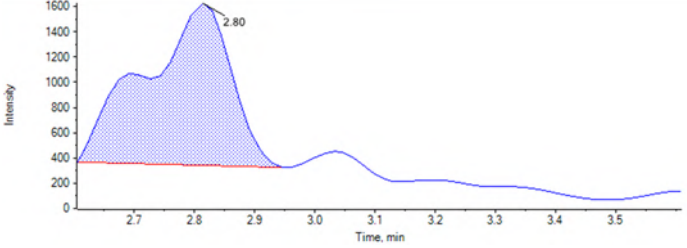
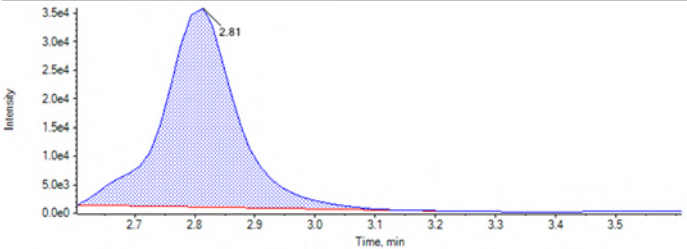
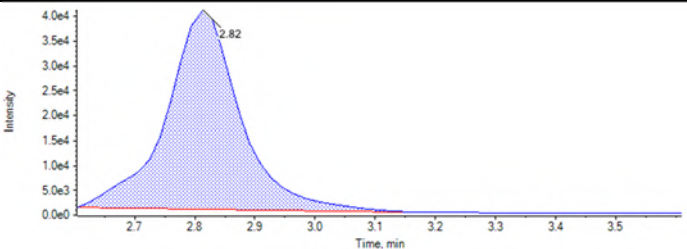
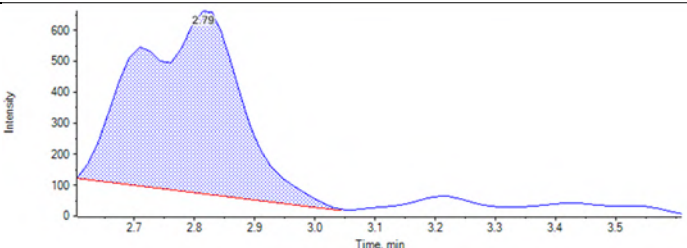
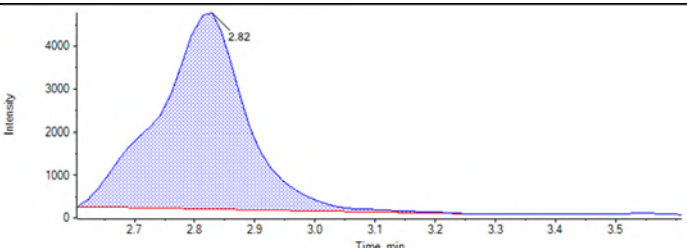


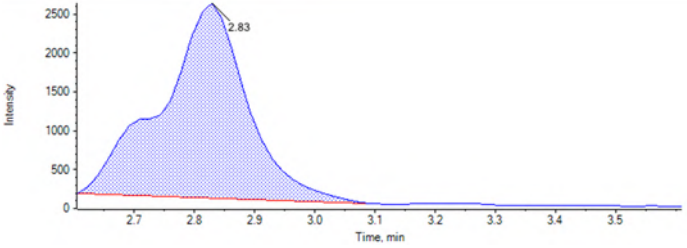
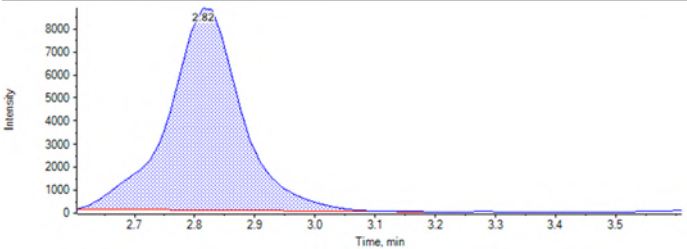
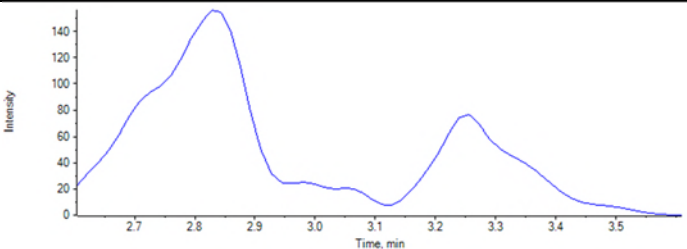
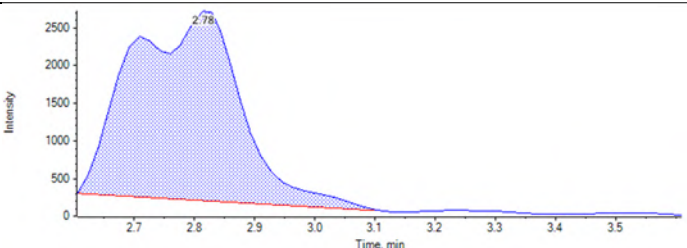
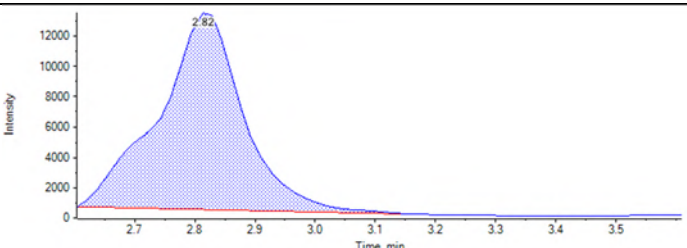
<p>JU04</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 44.685540 ng/L</p> <p>Area: 3.212e3</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 54.284882 ng/L</p> <p>Area: 3.028e3</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 124.600002 ng/L</p> <p>Area: 7.349e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 220.153966 ng/L</p> <p>Area: 1.624e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 489.624992 ng/L</p> <p>Area: 3.168e4</p> <p>Modified: (False)</p>	

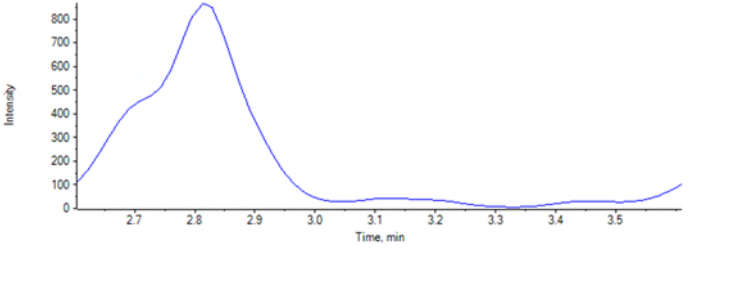
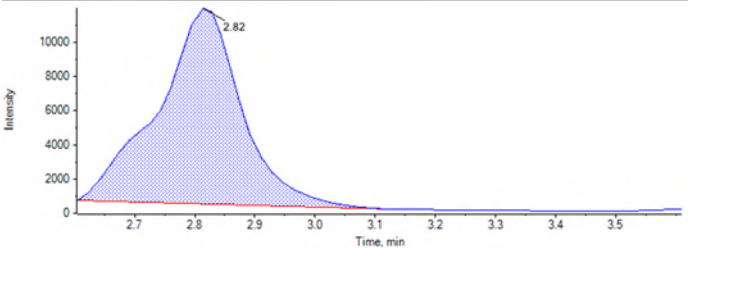
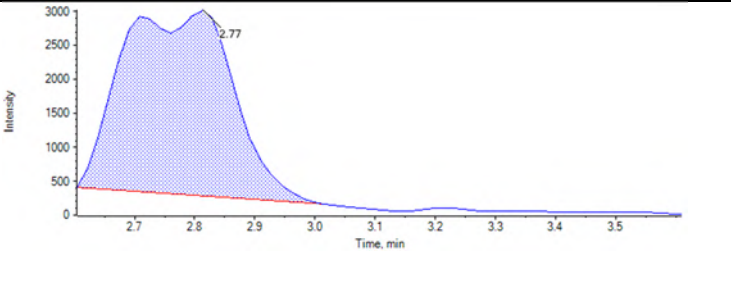
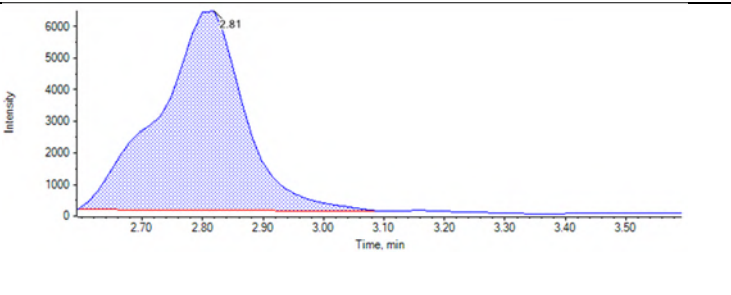
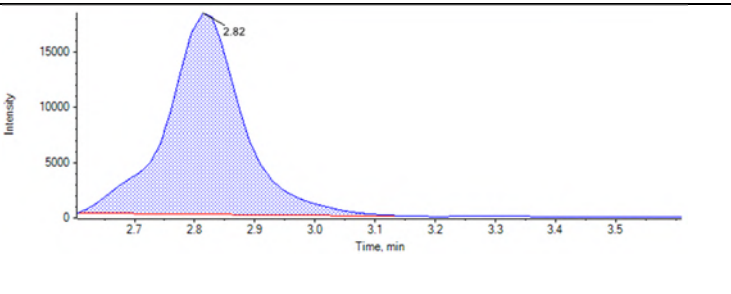
<p>JU09</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 965.520411 ng/L</p> <p>Area: 6.263e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 1944.107796 ng/L</p> <p>Area: 1.395e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 10703.751120 ng/L</p> <p>Area: 5.701e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 19897.956831 ng/L</p> <p>Area: 1.369e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.84 (2.80) min</p> <p>Calculated Conc: 140.049449 ng/L</p> <p>Area: 8.786e3</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 859.359202 ng/L</p> <p>Area: 5.622e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.76 (2.80) min</p> <p>Calculated Conc: 10660.137967 ng/L</p> <p>Area: 7.411e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 2722.546023 ng/L</p> <p>Area: 1.789e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 2.80 (2.80) min</p> <p>Calculated Conc: 375.702987 ng/L</p> <p>Area: 1.287e4</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 8873.929199 ng/L</p> <p>Area: 2.972e5</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 8655.768214 ng/L</p> <p>Area: 3.433e5</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 2.79 (2.80) min</p> <p>Calculated Conc: 121.424052 ng/L</p> <p>Area: 7.149e3</p> <p>Modified: (True)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 974.087117 ng/L</p> <p>Area: 4.610e4</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 358.607984 ng/L</p> <p>Area: 2.494e4</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 940.190701 ng/L</p> <p>Area: 7.450e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.78 (2.80) min</p> <p>Calculated Conc: 518.150316 ng/L</p> <p>Area: 3.237e4</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 2262.645932 ng/L</p> <p>Area: 1.269e5</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 2738.953627 ng/L</p> <p>Area: 1.103e5</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.77 (2.80) min</p> <p>Calculated Conc: 544.338528 ng/L</p> <p>Area: 3.525e4</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 888.781723 ng/L</p> <p>Area: 6.229e4</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 2331.526220 ng/L</p> <p>Area: 1.596e5</p> <p>Modified: (False)</p>	

**Analyte:** PFDA\_1 (513.0 / 469.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

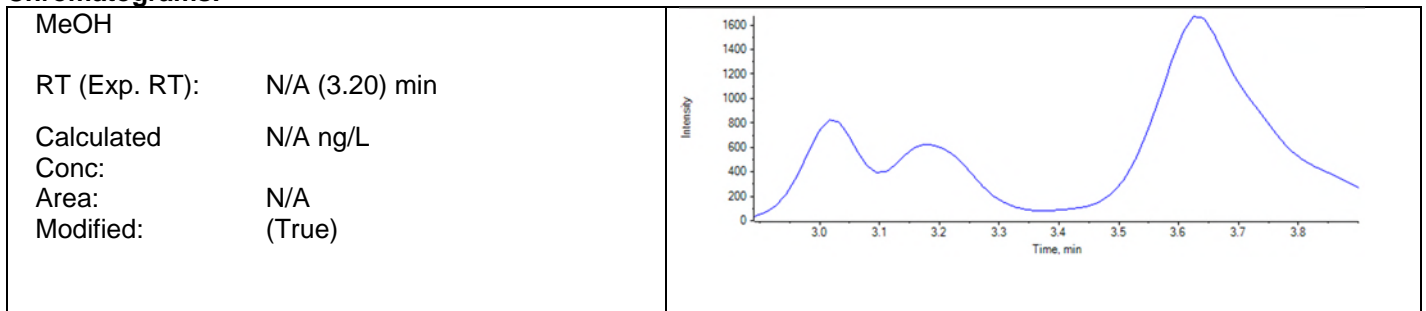
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	9264	3.20	41120	25.00000	24.035377	96
JU05	Standard	3/28/2018 7:57:43 PM	17390	3.20	33440	50.00000	57.556930	115
JU06	Standard	3/28/2018 8:08:31 PM	32810	3.20	38860	100.00000	94.427831	94
JU07	Standard	3/28/2018 8:19:19 PM	84490	3.19	43560	250.00000	219.062611	88
JU08	Standard	3/28/2018 8:30:06 PM	151800	3.19	34900	500.00000	493.107586	99
JU09	Standard	3/28/2018 8:40:53 PM	333000	3.19	34640	1000.00000	1091.945398	109
JU10	Standard	3/28/2018 8:51:40 PM	752700	3.19	36190	2500.00000	2364.046126	95
JU11	Standard	3/28/2018 9:02:26 PM	3002000	3.19	31670	10000.00000	10781.952515	108
JU12	Standard	3/28/2018 9:13:13 PM	7348000	3.18	43310	20000.00000	19298.865625	96
JP83 IB	Unknown	3/28/2018 9:23:58 PM	41270	3.19	42230	N/A	109.548645	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	293100	3.18	34370	1000.00000	968.491035	97
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	1478000	3.01	42960	N/A	3911.237521	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	44320	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	1061000	3.18	41760	N/A	2887.097865	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	22660	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1681000	3.16	20230	N/A	9445.621859	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1996000	3.17	23740	N/A	9563.674407	N/A

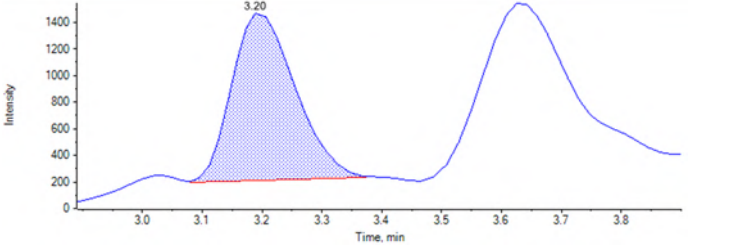
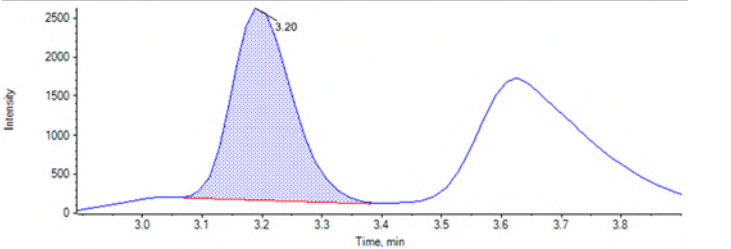
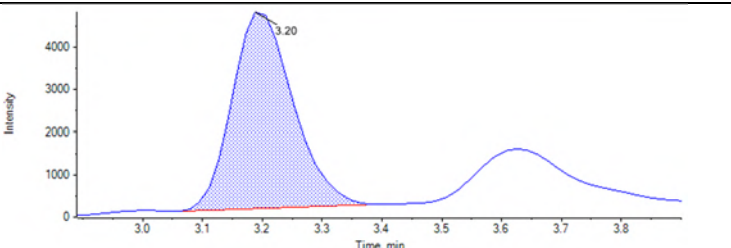
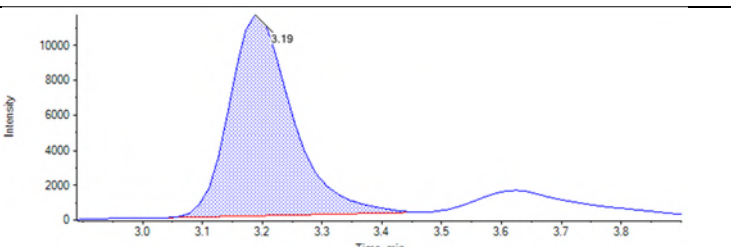
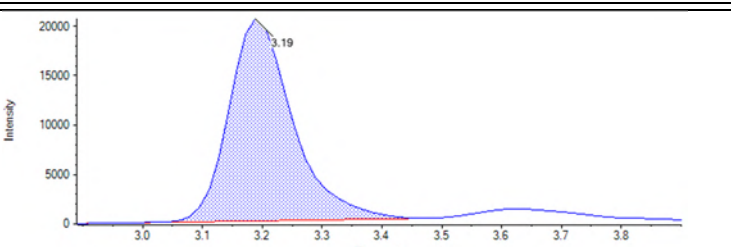
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	19610	3.18	26590	N/A	82.298145	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	17010	3.18	24310	N/A	78.028752	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	7355	3.18	38120	N/A	20.355026	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	379100	3.17	42380	1000.00000	1015.972793	102
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	28240	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	33430	N/A	N/A	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>39800</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	26010	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	5755	3.17	22830	N/A	27.084193	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	10670	3.16	32460	N/A	35.799489	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	927100	3.17	42350	2500.00000	2488.704173	100

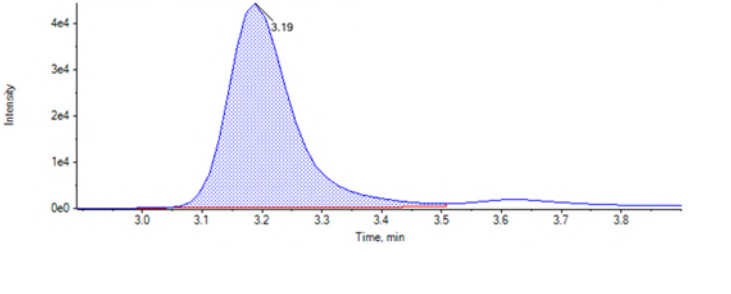
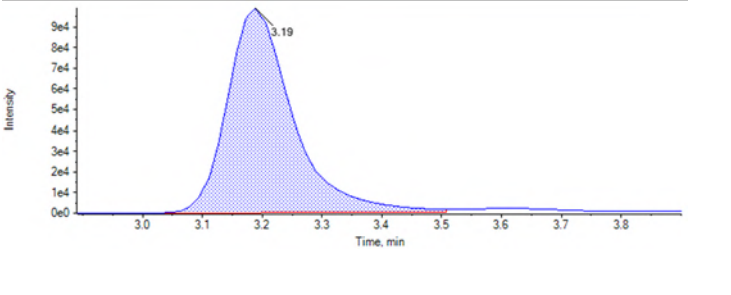
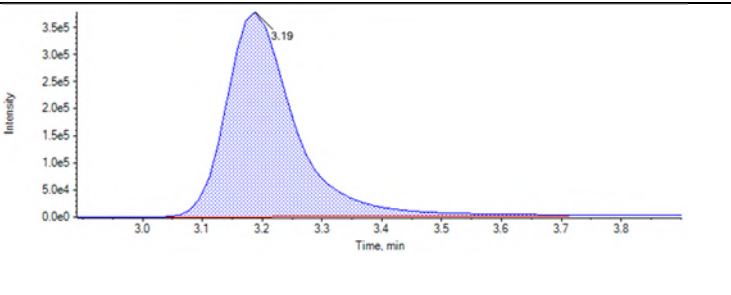
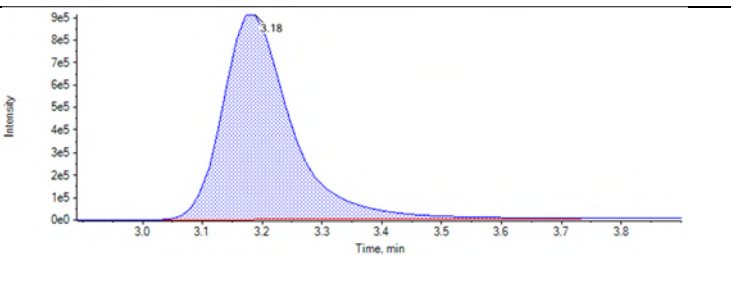
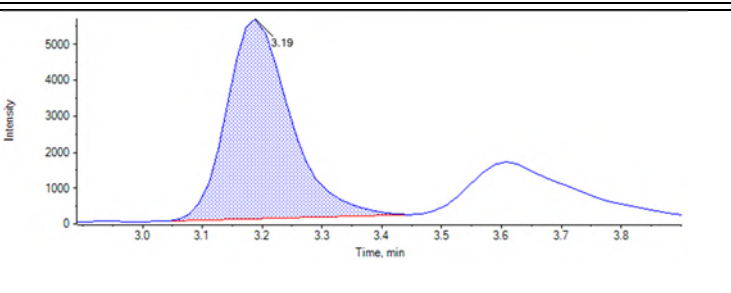
Dilution not needed. DMS 4/4/2018

**Chromatograms:**



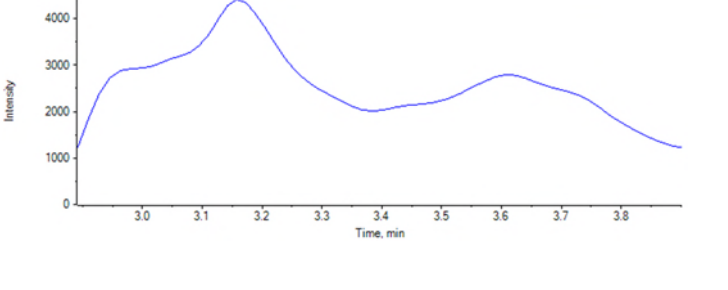
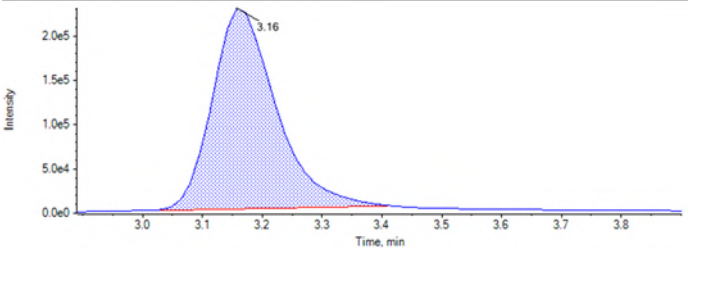
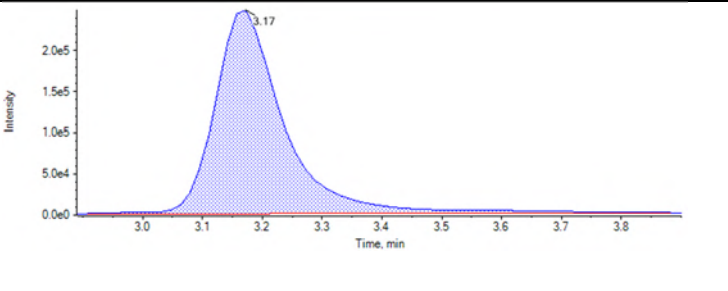
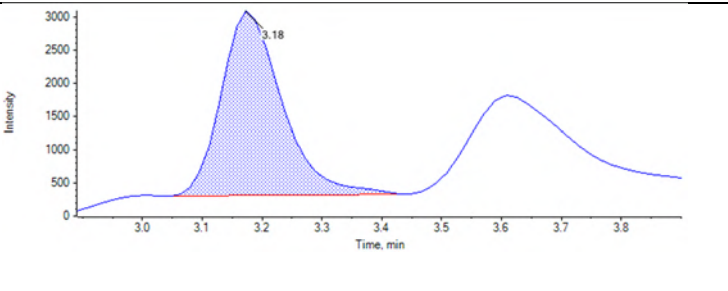
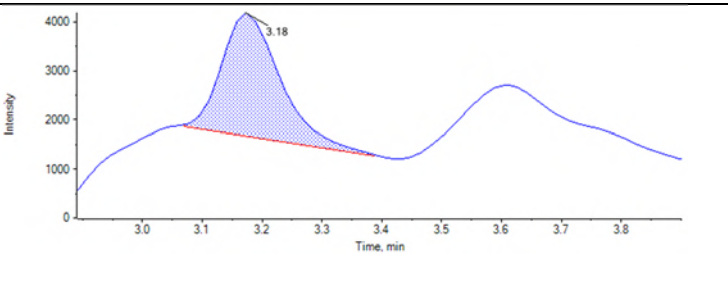


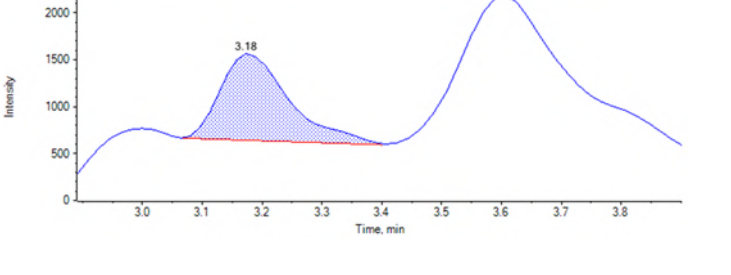
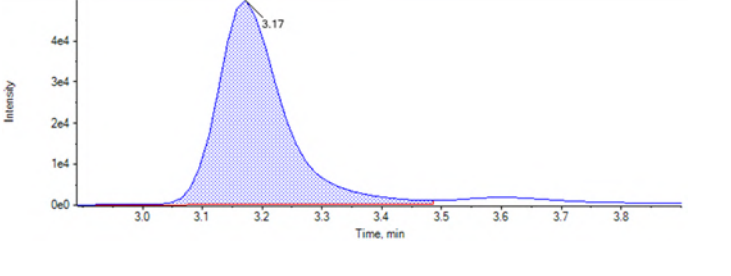
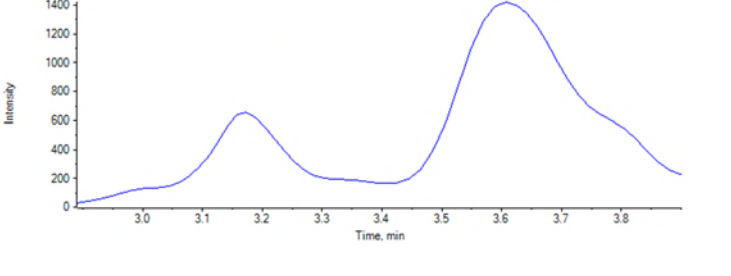
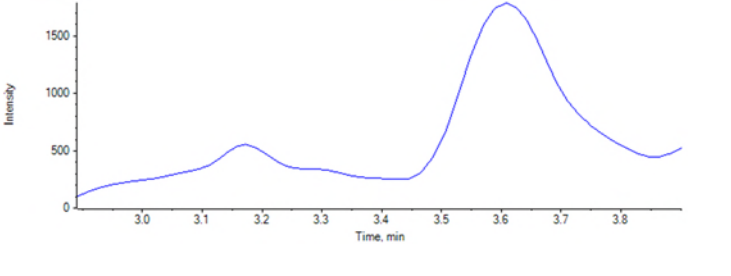
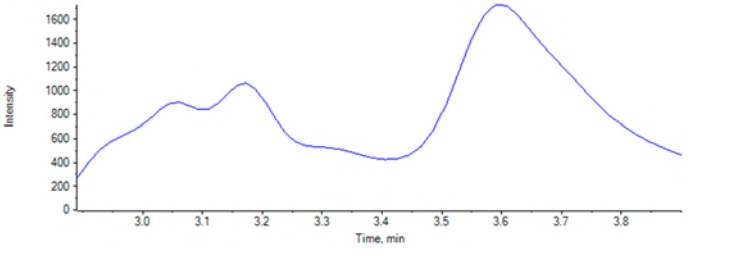
<p>JU04</p> <p>RT (Exp. RT): 3.20 (3.20) min</p> <p>Calculated Conc: 24.035377 ng/L</p> <p>Area: 9.264e3</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.20 (3.20) min</p> <p>Calculated Conc: 57.556930 ng/L</p> <p>Area: 1.739e4</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.20 (3.20) min</p> <p>Calculated Conc: 94.427831 ng/L</p> <p>Area: 3.281e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.19 (3.20) min</p> <p>Calculated Conc: 219.062611 ng/L</p> <p>Area: 8.449e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.19 (3.20) min</p> <p>Calculated Conc: 493.107586 ng/L</p> <p>Area: 1.518e5</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 3.19 (3.20) min</p> <p>Calculated Conc: 1091.945398 ng/L</p> <p>Area: 3.330e5</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.19 (3.20) min</p> <p>Calculated Conc: 2364.046126 ng/L</p> <p>Area: 7.527e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.19 (3.20) min</p> <p>Calculated Conc: 10781.952515 ng/L</p> <p>Area: 3.002e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 19298.865625 ng/L</p> <p>Area: 7.348e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.19 (3.20) min</p> <p>Calculated Conc: 109.548645 ng/L</p> <p>Area: 4.127e4</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 968.491035 ng/L</p> <p>Area: 2.931e5</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 3.01 (3.20) min</p> <p>Calculated Conc: 3911.237521 ng/L</p> <p>Area: 1.478e6</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 2887.097865 ng/L</p> <p>Area: 1.061e6</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.16 (3.20) min</p> <p>Calculated Conc: 9445.621859 ng/L</p> <p>Area: 1.681e6</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 9563.674407 ng/L</p> <p>Area: 1.996e6</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 82.298145 ng/L</p> <p>Area: 1.961e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 78.028752 ng/L</p> <p>Area: 1.701e4</p> <p>Modified: (True)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 20.355026 ng/L</p> <p>Area: 7.355e3</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 1015.972793 ng/L</p> <p>Area: 3.791e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p><del>J5394-FS-D(5)</del></p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 27.084193 ng/L</p> <p>Area: 5.755e3</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 3.16 (3.20) min</p> <p>Calculated Conc: 35.799489 ng/L</p> <p>Area: 1.067e4</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 2488.704173 ng/L</p> <p>Area: 9.271e5</p> <p>Modified: (False)</p>	

**Analyte:** PFDA\_2 (513.0 / 219.0)

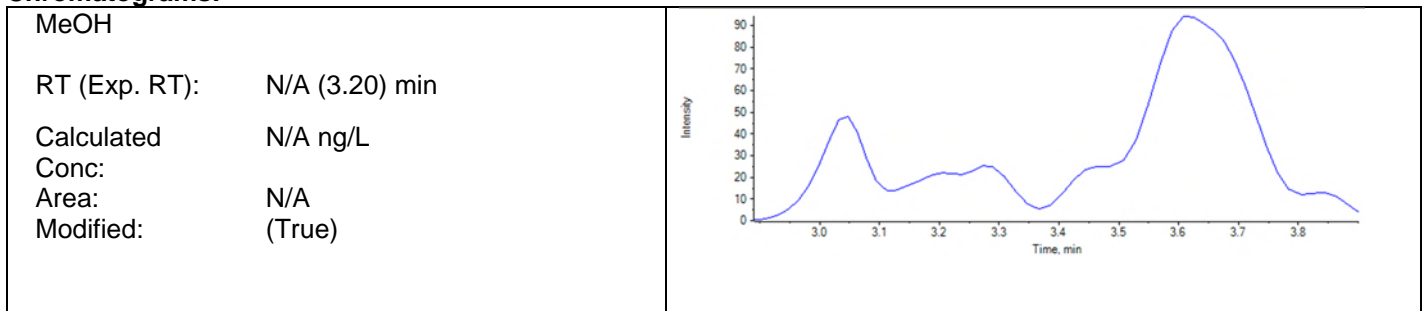
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

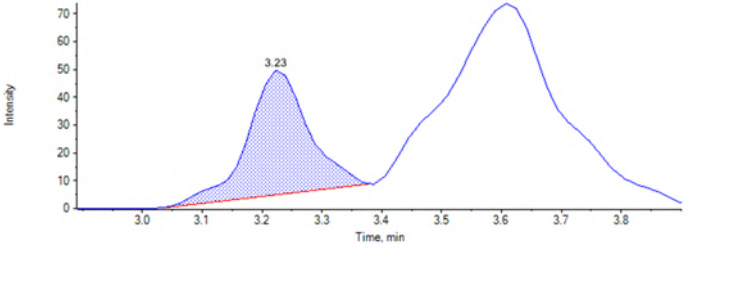
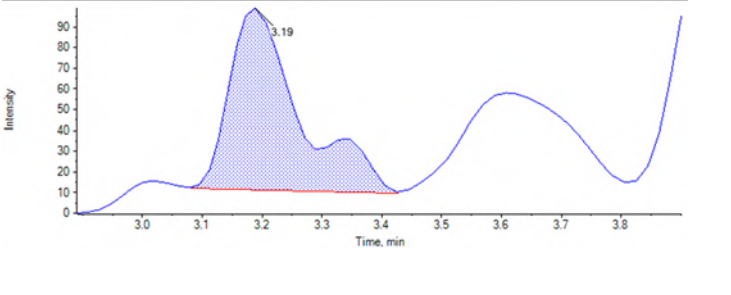
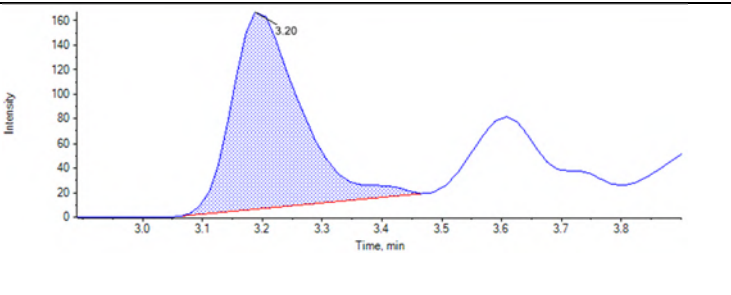
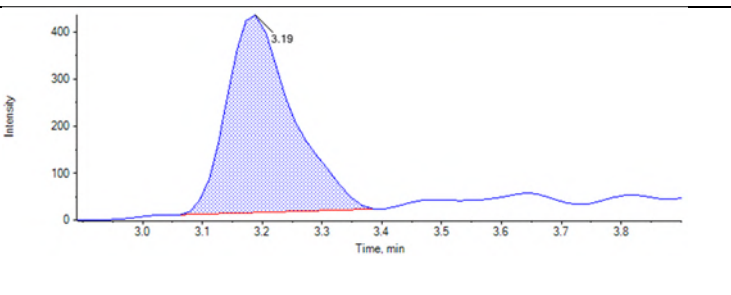
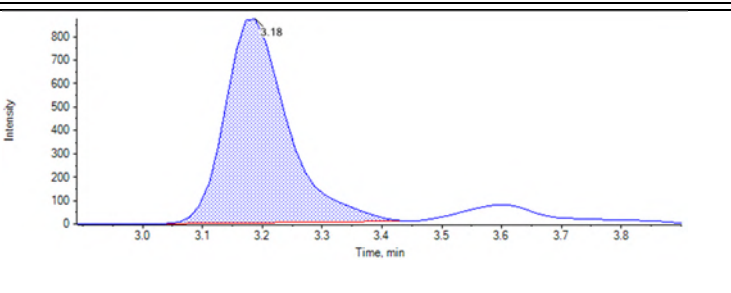
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	317	3.23	41120	25.00000	25.433676	102
JU05	Standard	3/28/2018 7:57:43 PM	716	3.19	33440	50.00000	62.066931	124
JU06	Standard	3/28/2018 8:08:31 PM	1275	3.20	38860	100.00000	92.544003	93
JU07	Standard	3/28/2018 8:19:19 PM	3213	3.19	43560	250.00000	201.954782	81
JU08	Standard	3/28/2018 8:30:06 PM	6367	3.18	34900	500.00000	492.412977	98
JU09	Standard	3/28/2018 8:40:53 PM	14040	3.19	34640	1000.00000	1087.996321	109
JU10	Standard	3/28/2018 8:51:40 PM	30510	3.19	36190	2500.00000	2257.225740	90
JU11	Standard	3/28/2018 9:02:26 PM	123700	3.19	31670	10000.00000	10441.486410	104
JU12	Standard	3/28/2018 9:13:13 PM	320200	3.18	43310	20000.00000	19763.879159	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1289	3.18	42230	N/A	86.413826	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	12430	3.18	34370	1000.00000	970.897019	97
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	23060	3.01	42960	N/A	1439.438588	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	44320	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	45530	3.18	41760	N/A	2917.951570	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	22660	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	79120	3.16	20230	N/A	10453.427617	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	95190	3.17	23740	N/A	10719.845750	N/A

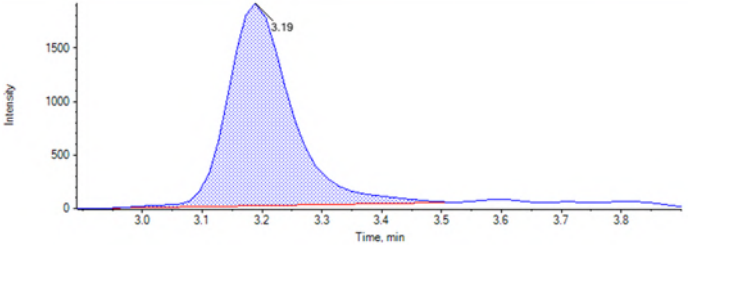
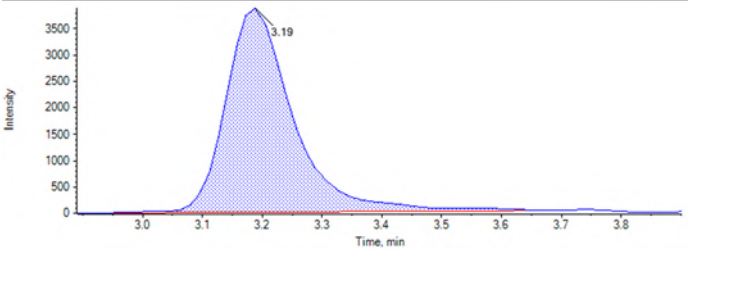
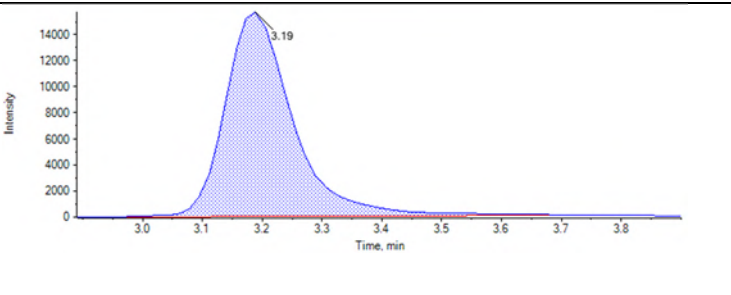
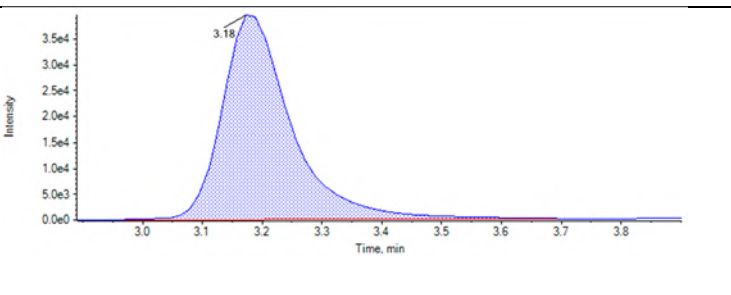
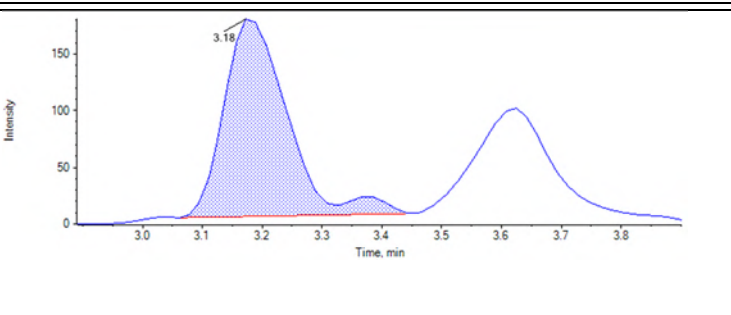
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	660	3.16	26590	N/A	71.148605	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	24310	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	38120	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	16040	3.17	42380	1000.00000	1016.259107	102
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	28240	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	33430	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	39800	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	26010	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	22830	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	32460	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	38720	3.17	42350	2500.00000	2448.089400	98

**Chromatograms:**



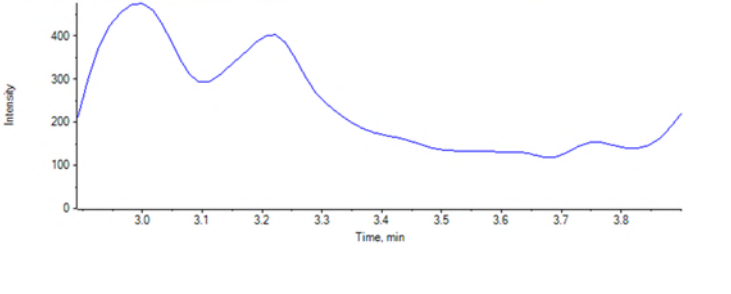
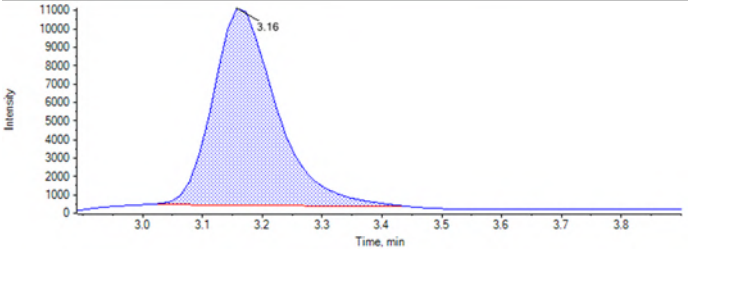
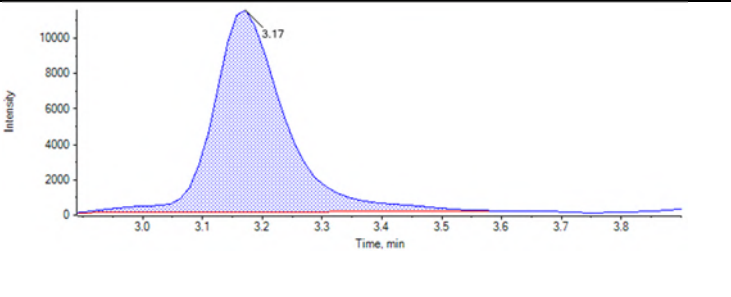
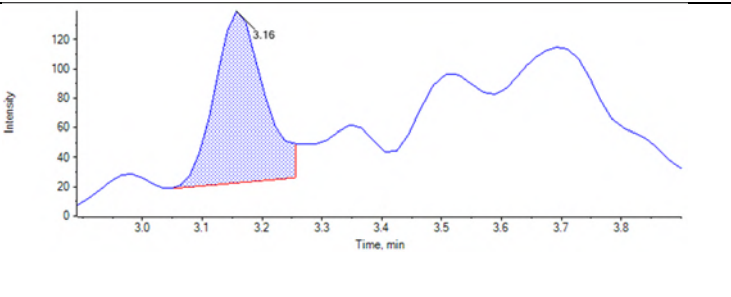
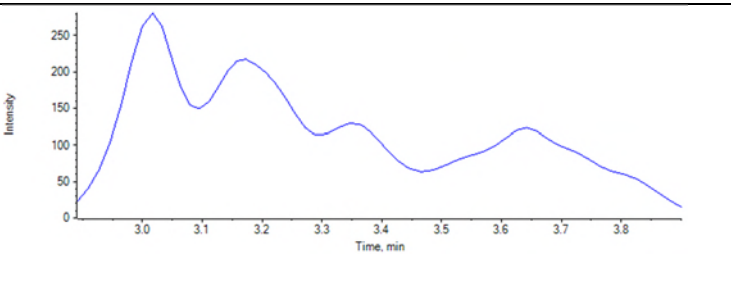
<p>JU04</p> <p>RT (Exp. RT): 3.23 (3.20) min</p> <p>Calculated Conc: 25.433676 ng/L</p> <p>Area: 3.165e2</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.19 (3.20) min</p> <p>Calculated Conc: 62.066931 ng/L</p> <p>Area: 7.159e2</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.20 (3.20) min</p> <p>Calculated Conc: 92.544003 ng/L</p> <p>Area: 1.275e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.19 (3.20) min</p> <p>Calculated Conc: 201.954782 ng/L</p> <p>Area: 3.213e3</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 492.412977 ng/L</p> <p>Area: 6.367e3</p> <p>Modified: (False)</p>	

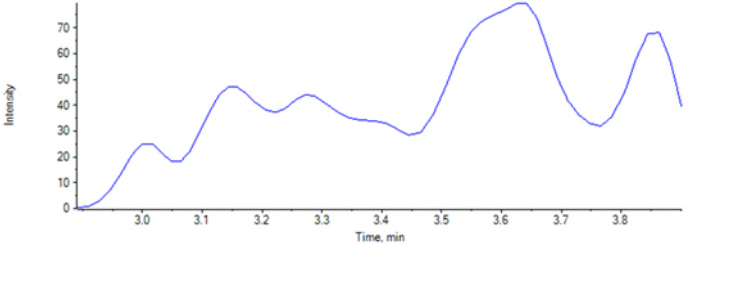
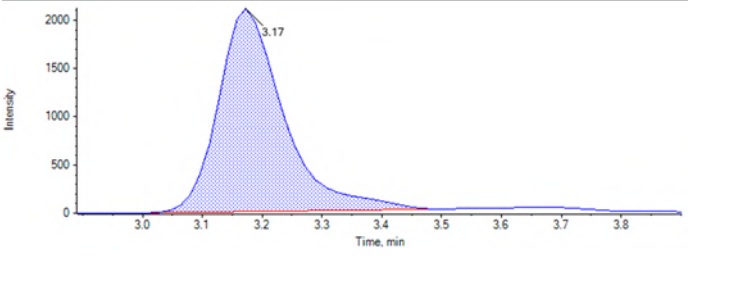
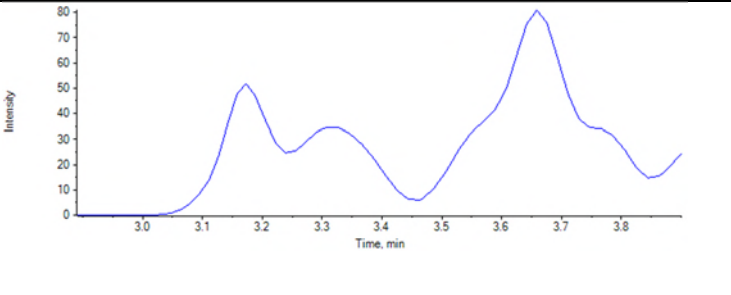
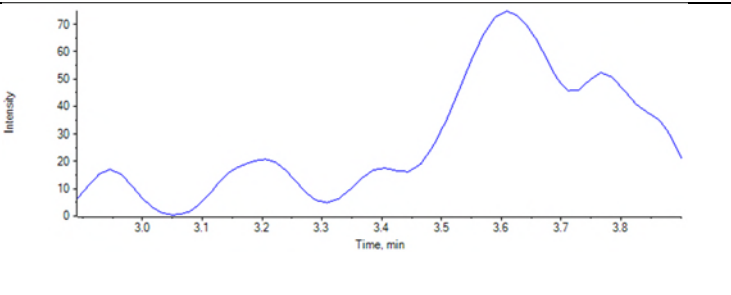
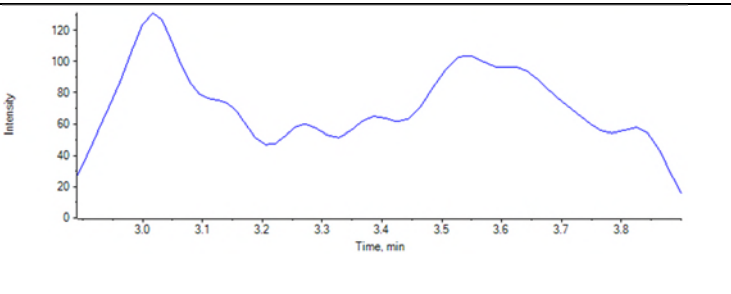


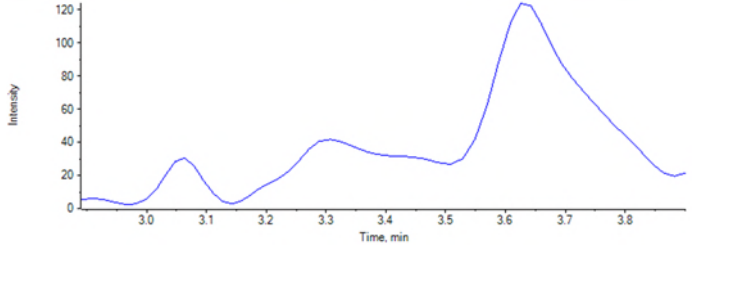
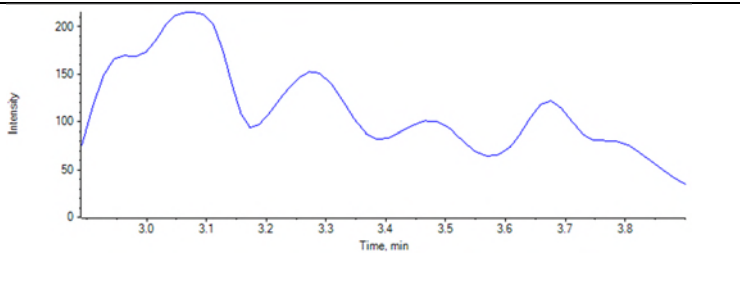
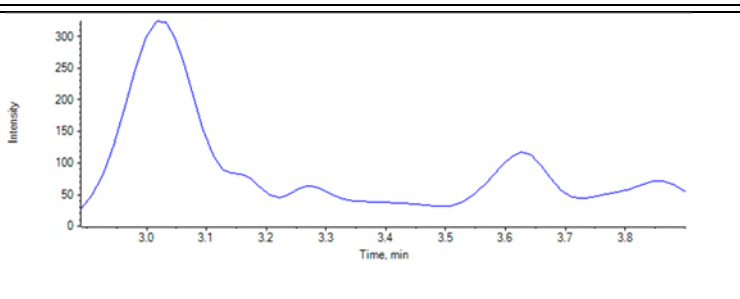
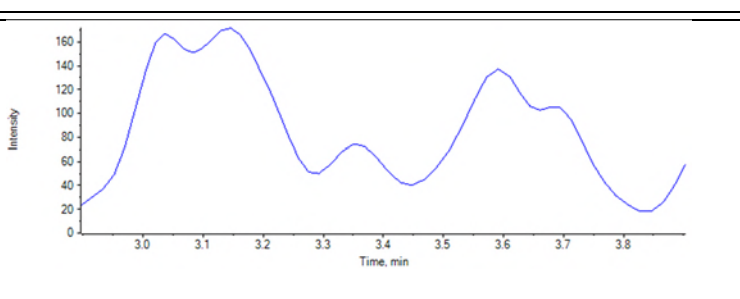
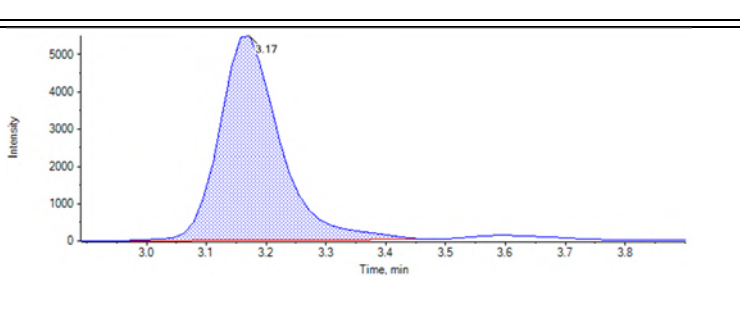
<p>JU09</p> <p>RT (Exp. RT): 3.19 (3.20) min</p> <p>Calculated Conc: 1087.996321 ng/L</p> <p>Area: 1.404e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.19 (3.20) min</p> <p>Calculated Conc: 2257.225740 ng/L</p> <p>Area: 3.051e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.19 (3.20) min</p> <p>Calculated Conc: 10441.486410 ng/L</p> <p>Area: 1.237e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 19763.879159 ng/L</p> <p>Area: 3.202e5</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 86.413826 ng/L</p> <p>Area: 1.289e3</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 970.897019 ng/L</p> <p>Area: 1.243e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 3.01 (3.20) min</p> <p>Calculated Conc: 1439.438588 ng/L</p> <p>Area: 2.306e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 2917.951570 ng/L</p> <p>Area: 4.553e4</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.16 (3.20) min</p> <p>Calculated Conc: 10453.427617 ng/L</p> <p>Area: 7.912e4</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 10719.845750 ng/L</p> <p>Area: 9.519e4</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 3.16 (3.20) min</p> <p>Calculated Conc: 71.148605 ng/L</p> <p>Area: 6.597e2</p> <p>Modified: (True)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min) for J5390-FS(3). The y-axis ranges from 0 to 70, and the x-axis ranges from 3.0 to 3.8. The plot shows several peaks, with the highest peak occurring around 3.65 minutes.</p>
<p>JU09 CCV</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 1016.259107 ng/L</p> <p>Area: 1.604e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min) for JU09 CCV. The y-axis ranges from 0 to 2000, and the x-axis ranges from 3.0 to 3.8. A single sharp peak is observed at 3.17 minutes, reaching an intensity of approximately 2000.</p>
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min) for MeOH. The y-axis ranges from 0 to 80, and the x-axis ranges from 3.0 to 3.8. The plot shows several peaks, with the highest peak occurring around 3.65 minutes.</p>
<p>J5392-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min) for J5392-FS(3). The y-axis ranges from 0 to 70, and the x-axis ranges from 3.0 to 3.8. The plot shows several peaks, with the highest peak occurring around 3.65 minutes.</p>
<p>J5394-FS(4)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min) for J5394-FS(4). The y-axis ranges from 0 to 120, and the x-axis ranges from 3.0 to 3.8. The plot shows several peaks, with the highest peak occurring around 3.05 minutes.</p>

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.0 to 3.8 minutes. The y-axis ranges from 0 to 120. A major peak is observed at approximately 3.65 minutes with an intensity of about 120. There are smaller peaks at approximately 3.05, 3.15, and 3.3 minutes.</p>
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.0 to 3.8 minutes. The y-axis ranges from 0 to 200. Multiple peaks are visible, with the highest peak at approximately 3.1 minutes (intensity ~200) and another significant peak at approximately 3.3 minutes (intensity ~150).</p>
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.0 to 3.8 minutes. The y-axis ranges from 0 to 300. A major peak is observed at approximately 3.05 minutes with an intensity of about 300. A secondary peak is visible at approximately 3.65 minutes with an intensity of about 120.</p>
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.0 to 3.8 minutes. The y-axis ranges from 0 to 160. Multiple peaks are visible, with the highest peak at approximately 3.15 minutes (intensity ~160) and another significant peak at approximately 3.6 minutes (intensity ~140).</p>
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 2448.089400 ng/L</p> <p>Area: 3.872e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.0 to 3.8 minutes. The y-axis ranges from 0 to 5000. A single, very sharp and narrow peak is observed at 3.17 minutes, reaching an intensity of approximately 5000. The peak is shaded in blue.</p>

**Analyte:** PFUnA\_1 (563.0 / 519.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

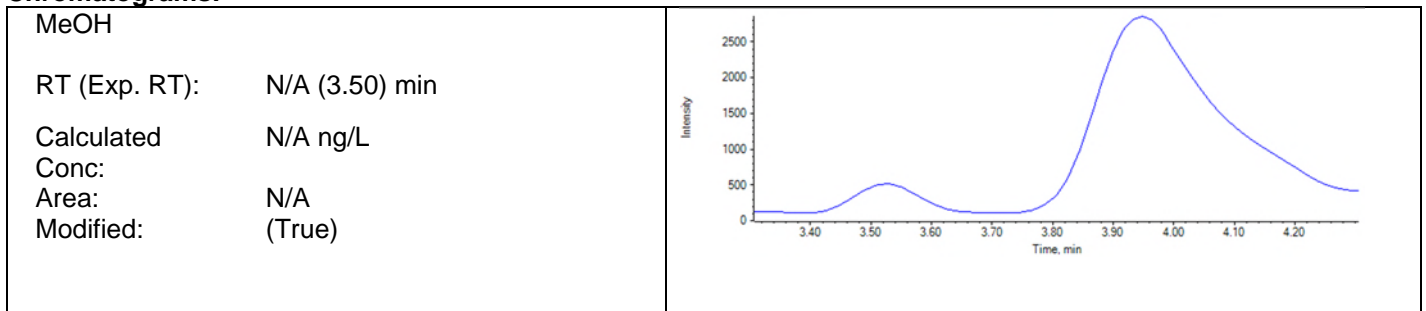
**Samples:**

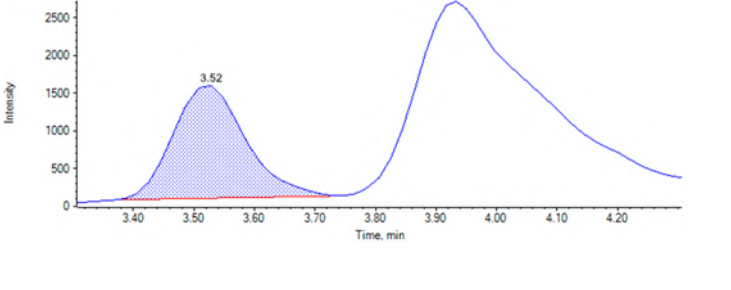
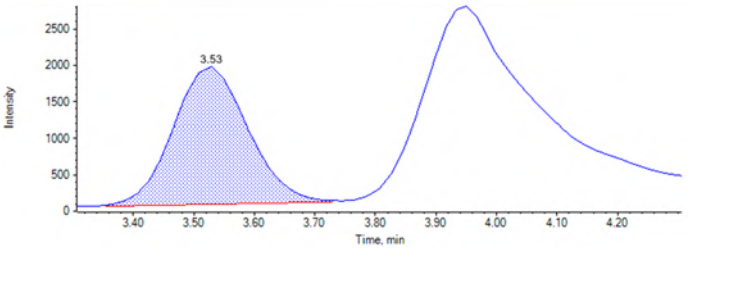
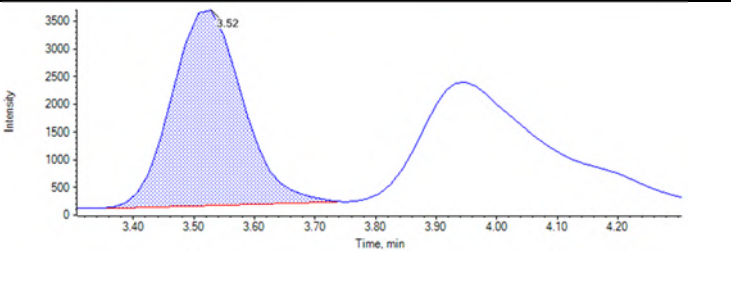
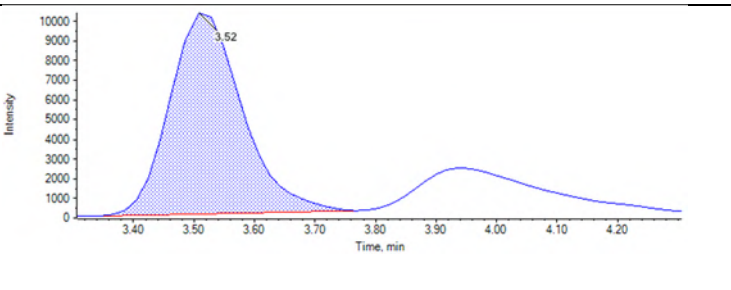
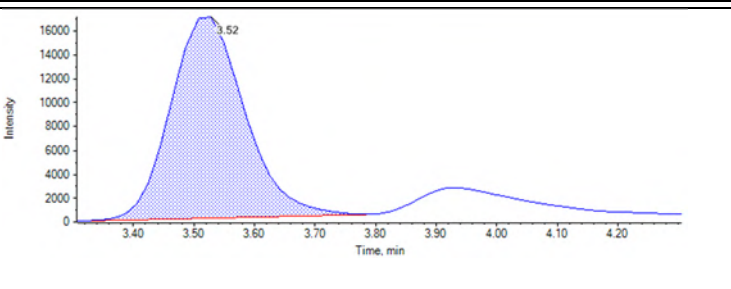
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	12410	3.52	40580	25.00000	30.539769	122
JU05	Standard	3/28/2018 7:57:43 PM	16190	3.53	31740	50.00000	53.213871	106
JU06	Standard	3/28/2018 8:08:31 PM	28790	3.52	35100	100.00000	87.727520	88
JU07	Standard	3/28/2018 8:19:19 PM	85240	3.52	38440	250.00000	243.008644	97
JU08	Standard	3/28/2018 8:30:06 PM	143900	3.52	32460	500.00000	489.433442	98
JU09	Standard	3/28/2018 8:40:53 PM	300800	3.52	36320	1000.00000	916.880554	92
JU10	Standard	3/28/2018 8:51:40 PM	694600	3.52	33050	2500.00000	2332.216351	93
JU11	Standard	3/28/2018 9:02:26 PM	2965000	3.52	31520	10000.00000	10451.781599	105
JU12	Standard	3/28/2018 9:13:13 PM	7559000	3.51	42390	20000.00000	19820.198250	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	37670	3.51	40120	N/A	100.916039	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	286200	3.51	32470	1000.00000	976.450413	98
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	42020	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	50580	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	975600	3.51	42220	N/A	2565.123738	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	23300	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1737000	3.50	22520	N/A	8568.518526	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	2083000	3.50	26860	N/A	8616.303464	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	20120	3.51	26730	N/A	80.194138	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	27350	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	40910	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	351600	3.50	43680	1000.00000	891.340205	89
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	29010	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	31700	N/A	N/A	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>41520</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	29280	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	24000	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	40770	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	822000	3.50	40250	2500.00000	2266.753364	91

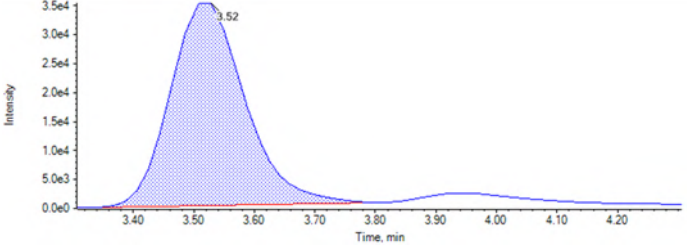
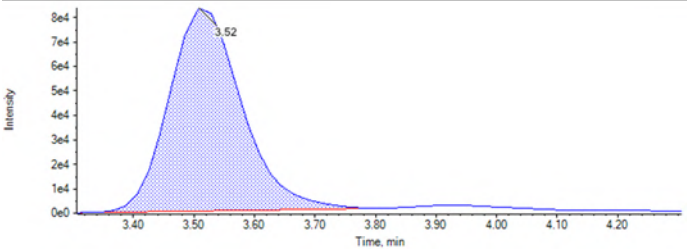
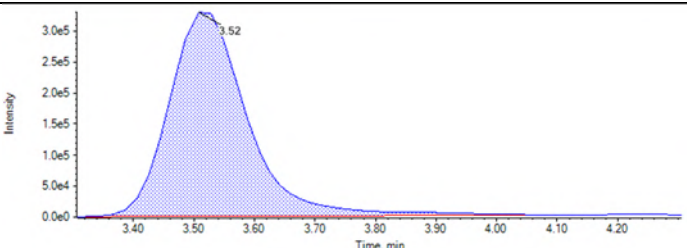
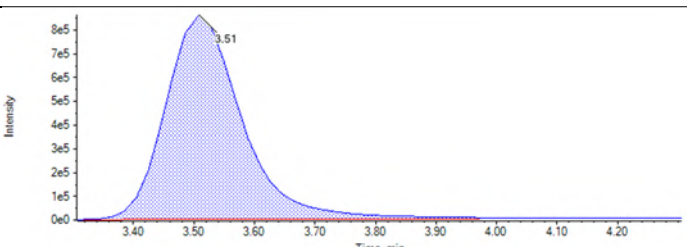
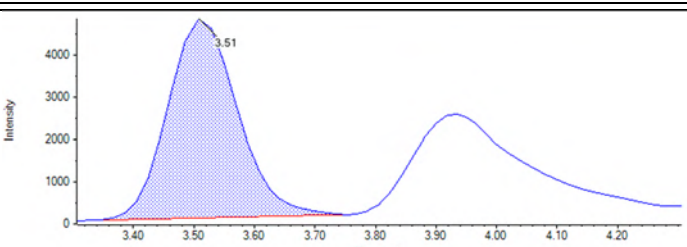
Dilution not needed. DMS 4/4/2018

**Chromatograms:**

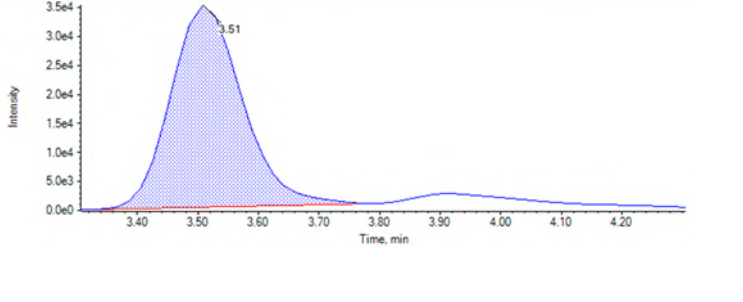
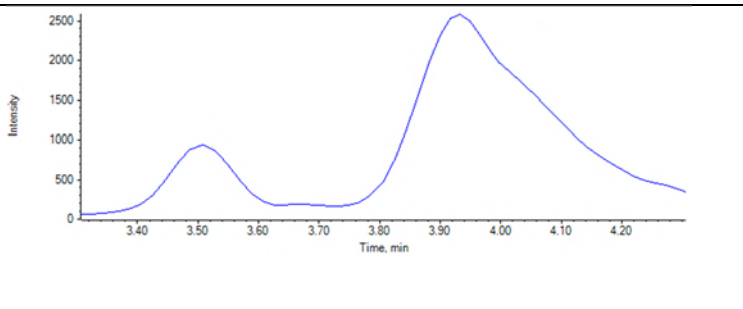
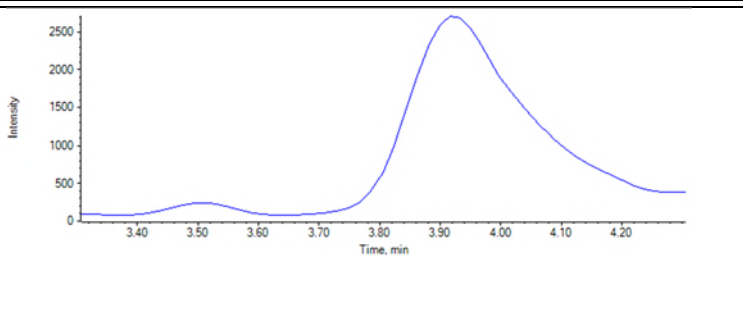
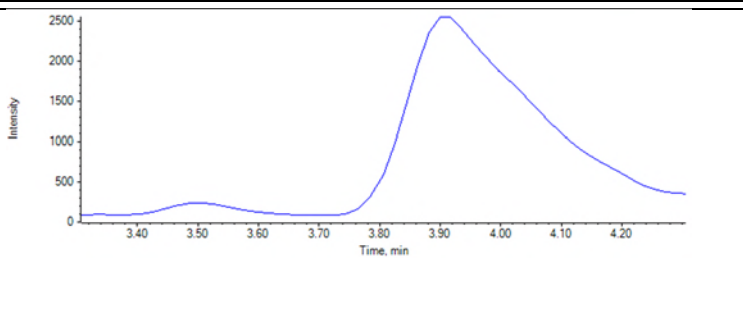
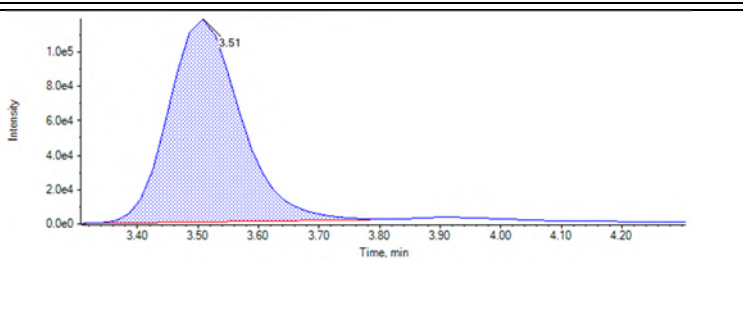


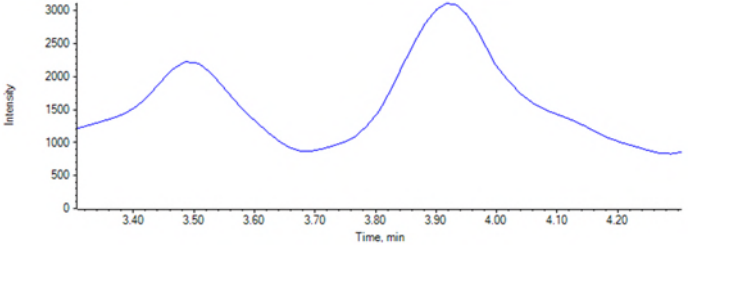
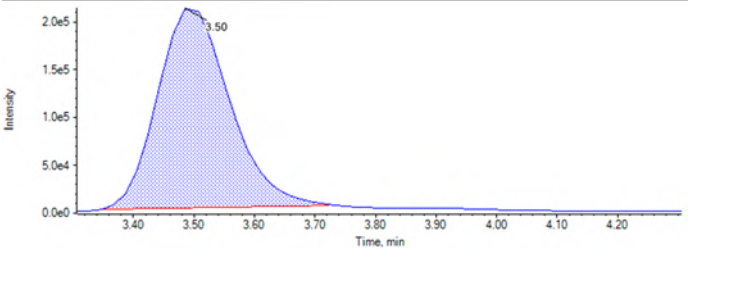
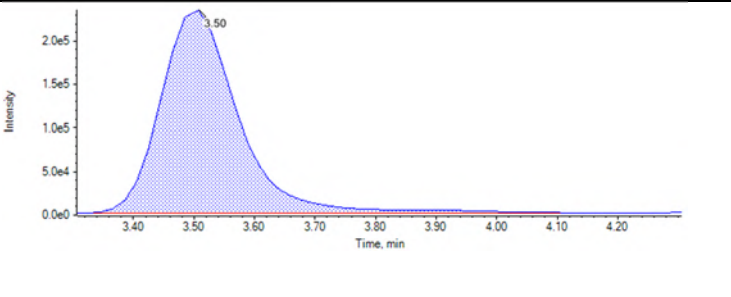
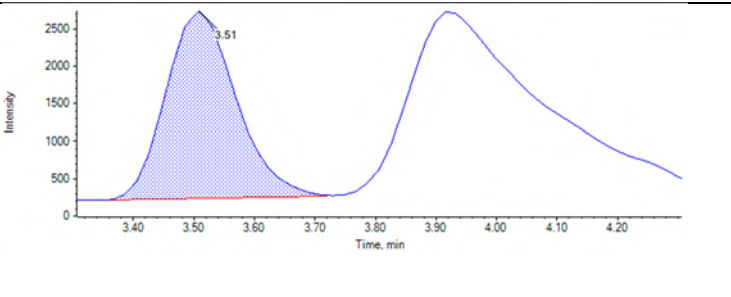
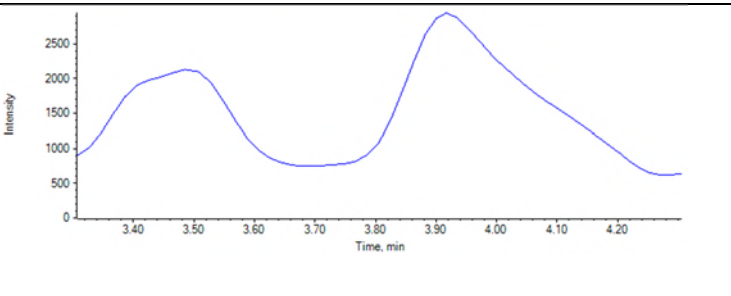
<p>JU04</p> <p>RT (Exp. RT): 3.52 (3.50) min</p> <p>Calculated Conc: 30.539769 ng/L</p> <p>Area: 1.241e4</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.53 (3.50) min</p> <p>Calculated Conc: 53.213871 ng/L</p> <p>Area: 1.619e4</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.52 (3.50) min</p> <p>Calculated Conc: 87.727520 ng/L</p> <p>Area: 2.879e4</p> <p>Modified: (True)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.52 (3.50) min</p> <p>Calculated Conc: 243.008644 ng/L</p> <p>Area: 8.524e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.52 (3.50) min</p> <p>Calculated Conc: 489.433442 ng/L</p> <p>Area: 1.439e5</p> <p>Modified: (False)</p>	

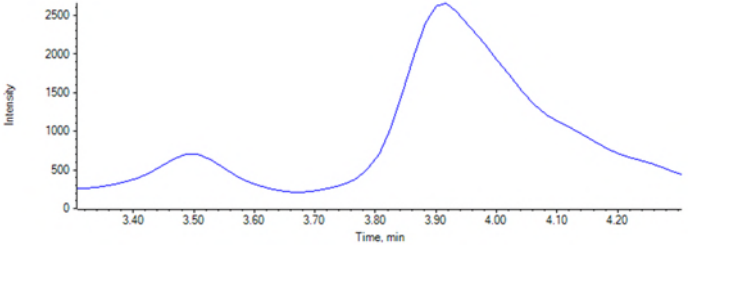
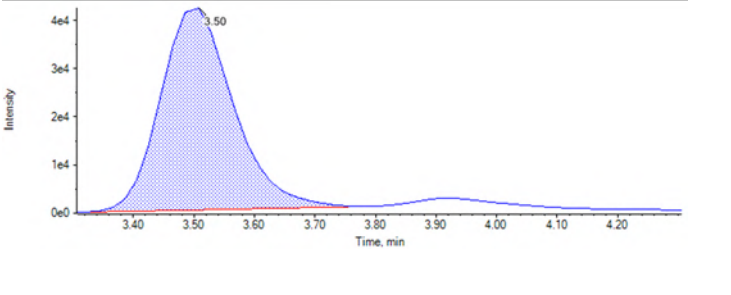
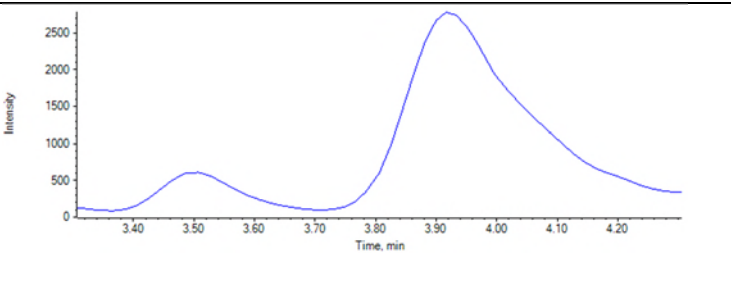
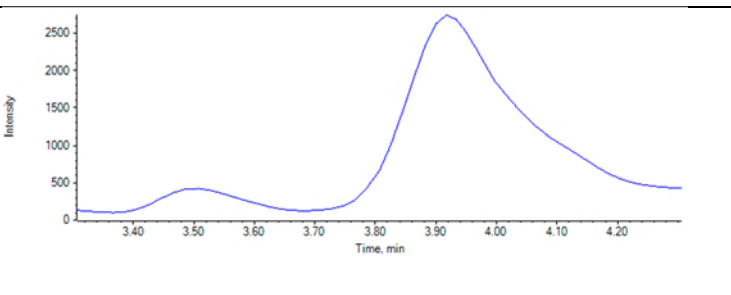
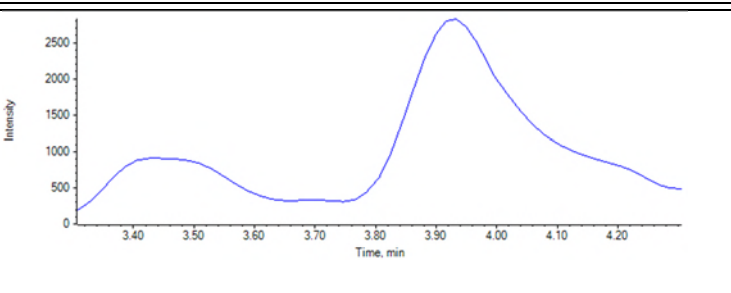


<p>JU09</p> <p>RT (Exp. RT): 3.52 (3.50) min</p> <p>Calculated Conc: 916.880554 ng/L</p> <p>Area: 3.008e5</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.52 (3.50) min</p> <p>Calculated Conc: 2332.216351 ng/L</p> <p>Area: 6.946e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.52 (3.50) min</p> <p>Calculated Conc: 10451.781599 ng/L</p> <p>Area: 2.965e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 19820.198250 ng/L</p> <p>Area: 7.559e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 100.916039 ng/L</p> <p>Area: 3.767e4</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 976.450413 ng/L</p> <p>Area: 2.862e5</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 2565.123738 ng/L</p> <p>Area: 9.756e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 8568.518526 ng/L</p> <p>Area: 1.737e6</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 8616.303464 ng/L</p> <p>Area: 2.083e6</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 80.194138 ng/L</p> <p>Area: 2.012e4</p> <p>Modified: (True)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 2500. A small peak is visible at 3.50 minutes, and a much larger peak is at 3.90 minutes.</p>
<p>JU09 CCV</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 891.340205 ng/L</p> <p>Area: 3.516e5</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0e0 to 4e4. A single sharp peak is labeled at 3.50 minutes.</p>
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 2500. A small peak is visible at 3.50 minutes, and a much larger peak is at 3.90 minutes.</p>
<p>J5392-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 2500. A small peak is visible at 3.50 minutes, and a much larger peak is at 3.90 minutes.</p>
<p>J5394-FS(4)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 2500. A small peak is visible at 3.50 minutes, and a much larger peak is at 3.90 minutes.</p>

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 2266.753364 ng/L</p> <p>Area: 8.220e5</p> <p>Modified: (False)</p>	

**Analyte:** PFUnA\_2 (563.0 / 269.0)

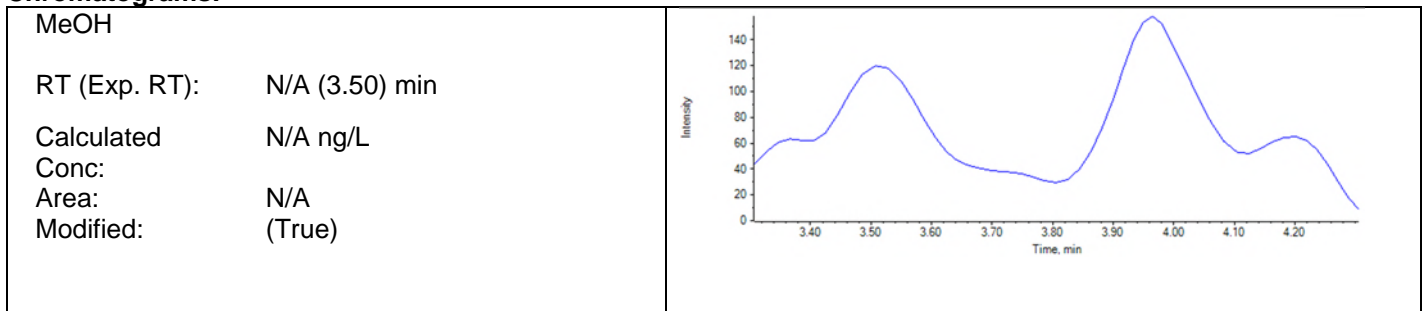
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

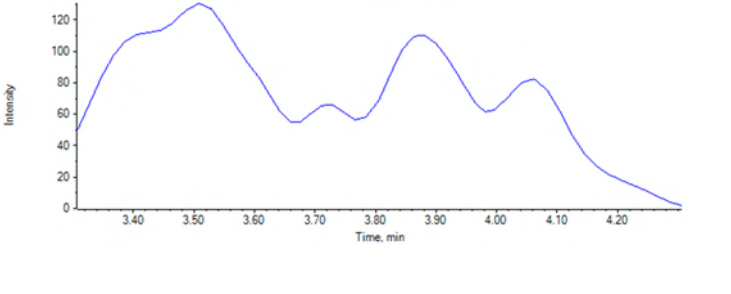
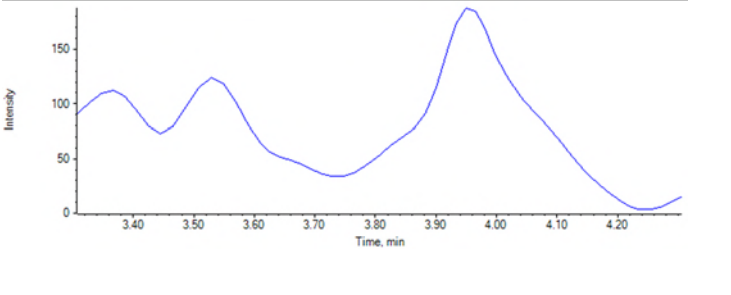
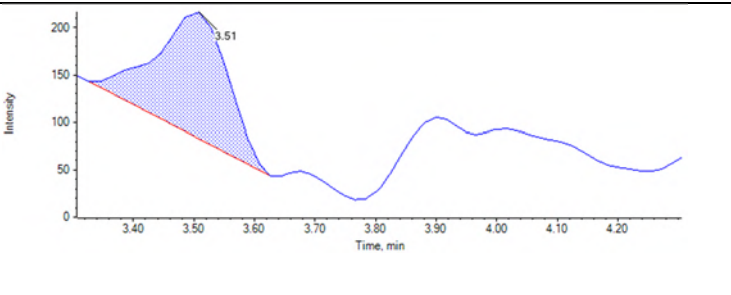
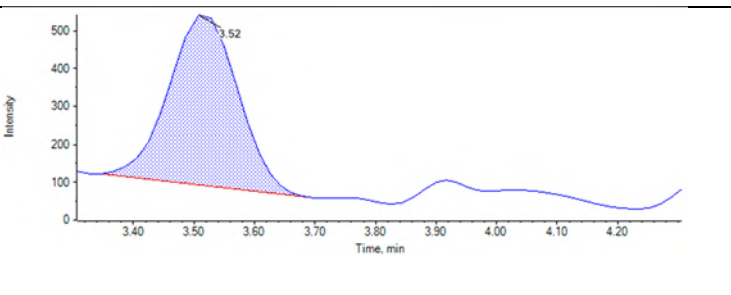
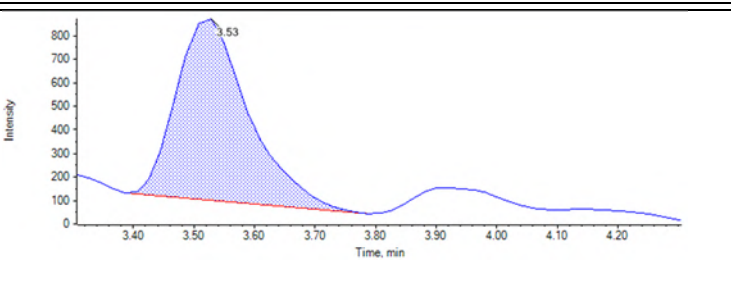
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	N/A	N/A	40580	25.00000	N/A	N/A
JU05	Standard	3/28/2018 7:57:43 PM	N/A	N/A	31740	50.00000	N/A	N/A
JU06	Standard	3/28/2018 8:08:31 PM	1079	3.51	35100	100.00000	88.805487	89
JU07	Standard	3/28/2018 8:19:19 PM	3588	3.52	38440	250.00000	247.271558	99
JU08	Standard	3/28/2018 8:30:06 PM	6420	3.53	32460	500.00000	511.823131	102
JU09	Standard	3/28/2018 8:40:53 PM	14490	3.52	36320	1000.00000	1021.078885	102
JU10	Standard	3/28/2018 8:51:40 PM	34730	3.52	33050	2500.00000	2671.784446	107
JU11	Standard	3/28/2018 9:02:26 PM	129100	3.52	31520	10000.00000	10379.162990	104
JU12	Standard	3/28/2018 9:13:13 PM	325000	3.51	42390	20000.00000	19430.073503	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1499	3.51	40120	N/A	105.515754	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	11550	3.51	32470	1000.00000	911.568164	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	42020	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	50580	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	50210	3.51	42220	N/A	3022.869319	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	23300	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	90600	3.50	22520	N/A	10201.535412	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	106900	3.50	26860	N/A	10093.449498	N/A

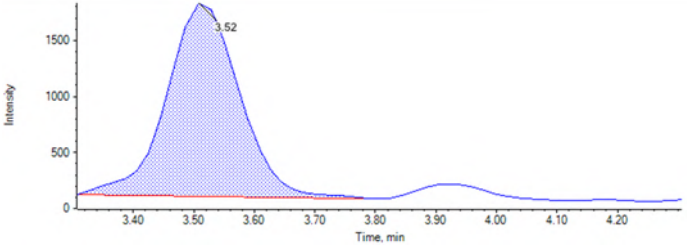
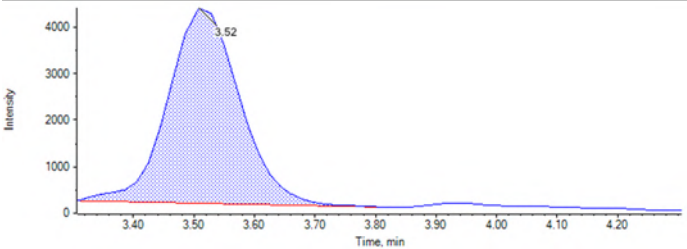
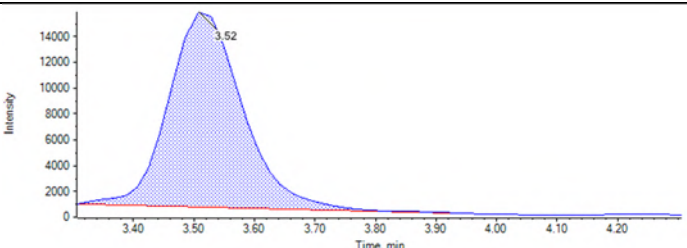
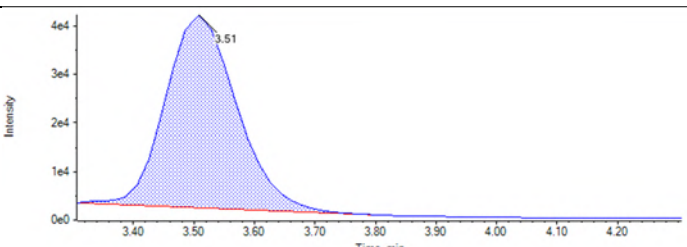
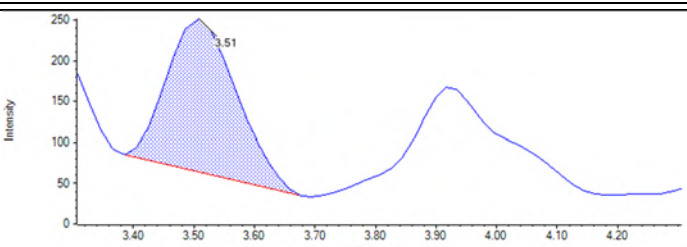
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	26730	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	27350	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	40910	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	15100	3.50	43680	1000.00000	886.281547	89
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	29010	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	31700	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	41520	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	29280	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	24000	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	40770	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	35220	3.49	40250	2500.00000	2227.155956	89

**Chromatograms:**



<p>JU04</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 88.805487 ng/L</p> <p>Area: 1.079e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.52 (3.50) min</p> <p>Calculated Conc: 247.271558 ng/L</p> <p>Area: 3.588e3</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.53 (3.50) min</p> <p>Calculated Conc: 511.823131 ng/L</p> <p>Area: 6.420e3</p> <p>Modified: (False)</p>	

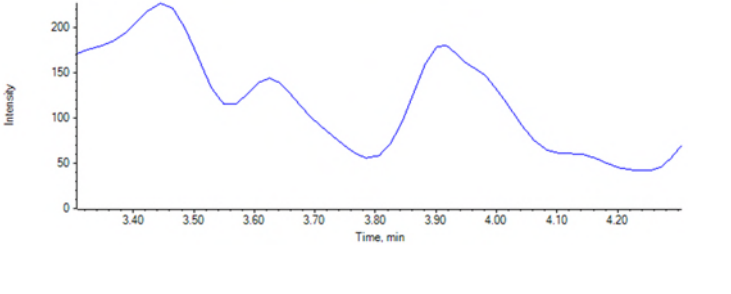
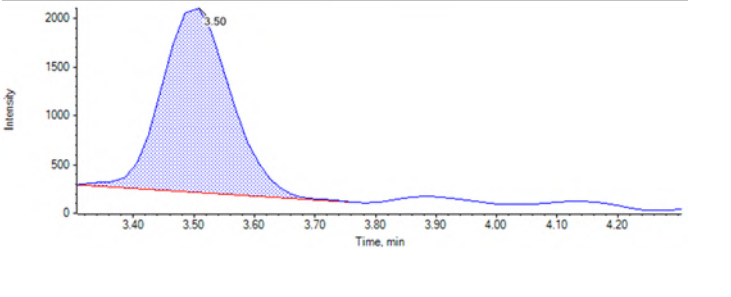
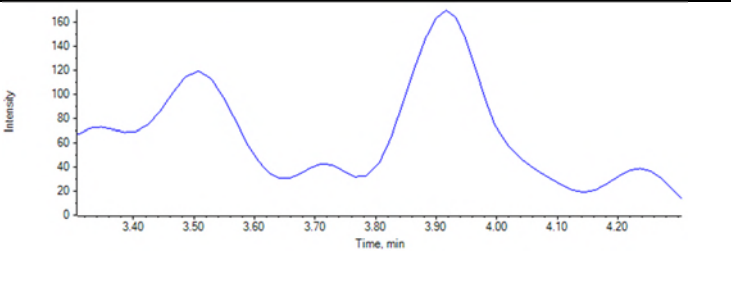
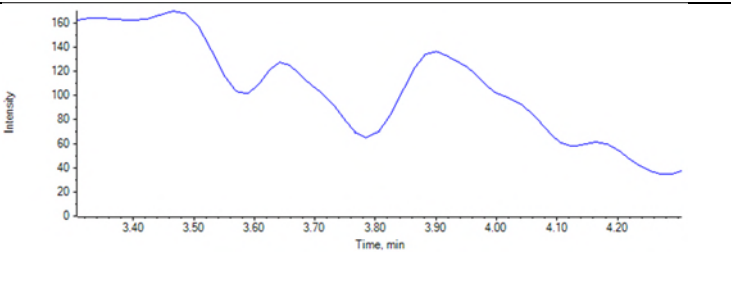
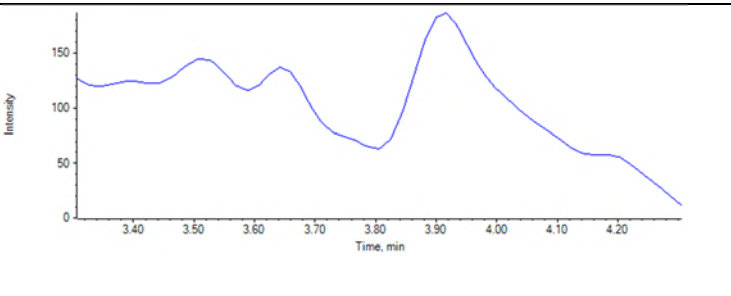


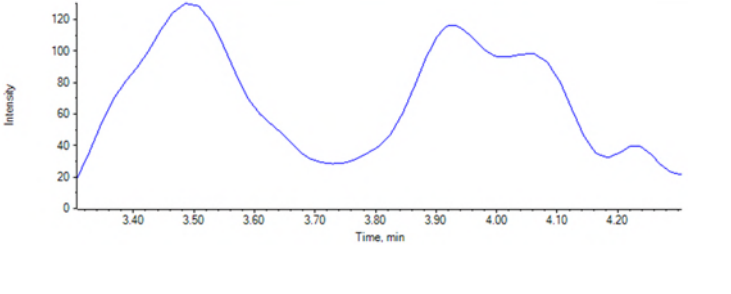
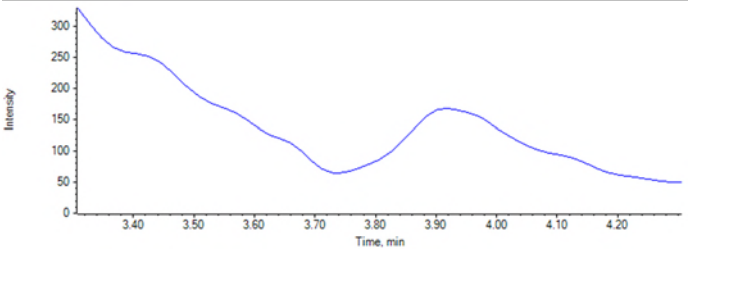
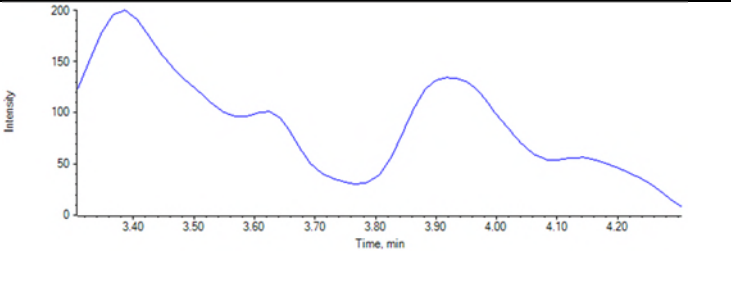
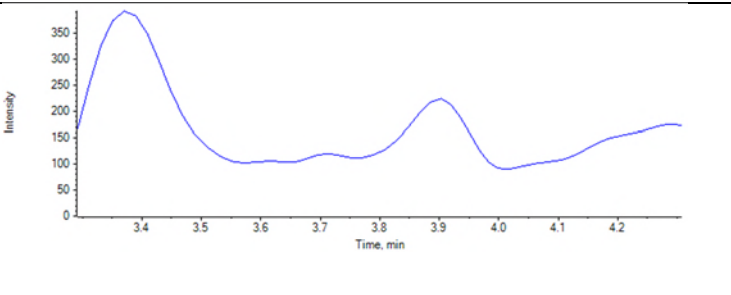
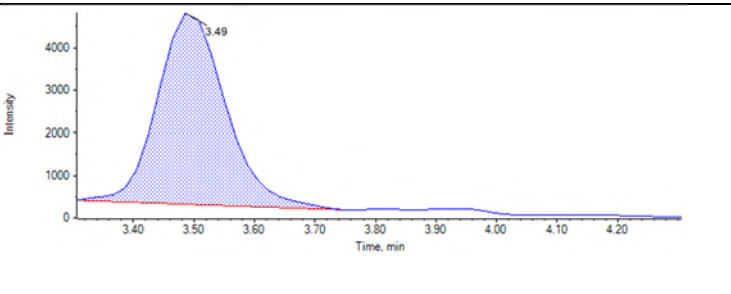
<p>JU09</p> <p>RT (Exp. RT): 3.52 (3.50) min</p> <p>Calculated Conc: 1021.078885 ng/L</p> <p>Area: 1.449e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.52 (3.50) min</p> <p>Calculated Conc: 2671.784446 ng/L</p> <p>Area: 3.473e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.52 (3.50) min</p> <p>Calculated Conc: 10379.162990 ng/L</p> <p>Area: 1.291e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 19430.073503 ng/L</p> <p>Area: 3.250e5</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 105.515754 ng/L</p> <p>Area: 1.499e3</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 911.568164 ng/L</p> <p>Area: 1.155e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 3022.869319 ng/L</p> <p>Area: 5.021e4</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 600) and time in minutes on the x-axis (3.40 to 4.20). A single peak is observed at 3.50 minutes with an intensity of approximately 600.</p>
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 10201.535412 ng/L</p> <p>Area: 9.060e4</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 12000) and time in minutes on the x-axis (3.40 to 4.20). A large, sharp peak is observed at 3.50 minutes, reaching an intensity of approximately 12000.</p>
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 10093.449498 ng/L</p> <p>Area: 1.069e5</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 14000) and time in minutes on the x-axis (3.40 to 4.20). A large, sharp peak is observed at 3.50 minutes, reaching an intensity of approximately 14000.</p>
<p>J5388-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 250) and time in minutes on the x-axis (3.40 to 4.20). There are multiple peaks: a large one at 3.50 min (intensity ~250), a smaller one at 3.90 min (intensity ~180), and another at 4.20 min (intensity ~100).</p>
<p>J5389-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 300) and time in minutes on the x-axis (3.40 to 4.20). There are multiple peaks: a large one at 3.50 min (intensity ~300), a smaller one at 3.90 min (intensity ~200), and another at 4.20 min (intensity ~100).</p>

<p>J5390-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 886.281547 ng/L</p> <p>Area: 1.510e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 2227.155956 ng/L</p> <p>Area: 3.522e4</p> <p>Modified: (False)</p>	

**Analyte:** PFD0A\_1 (613.0 / 569.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

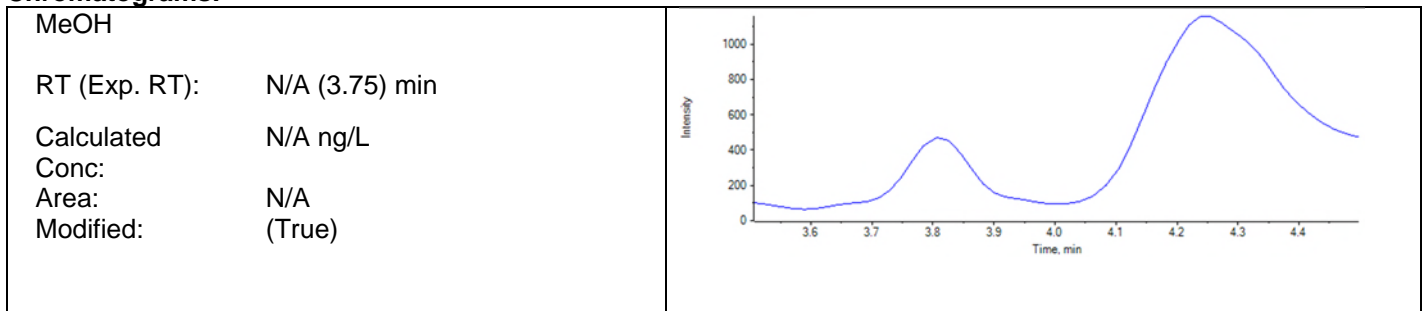
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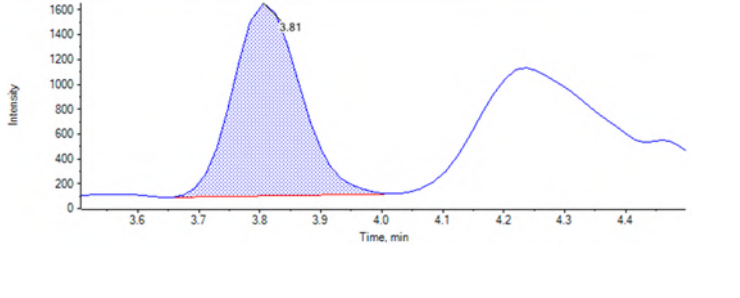
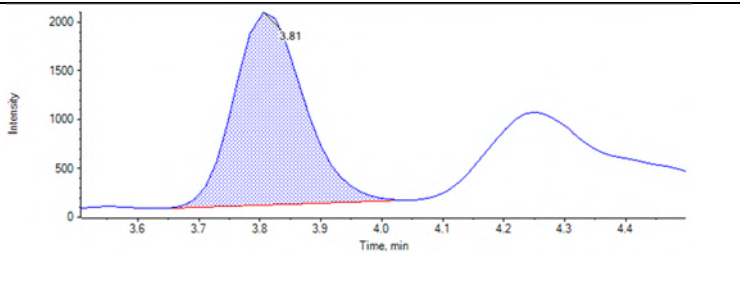
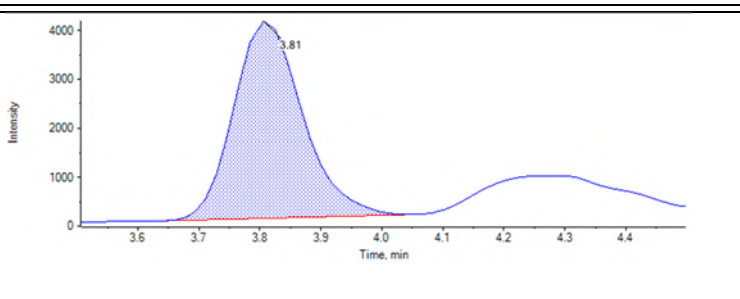
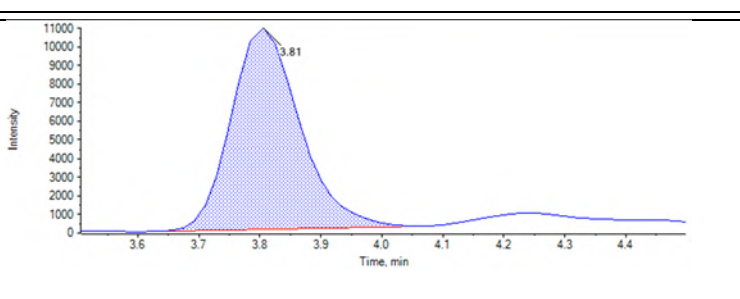
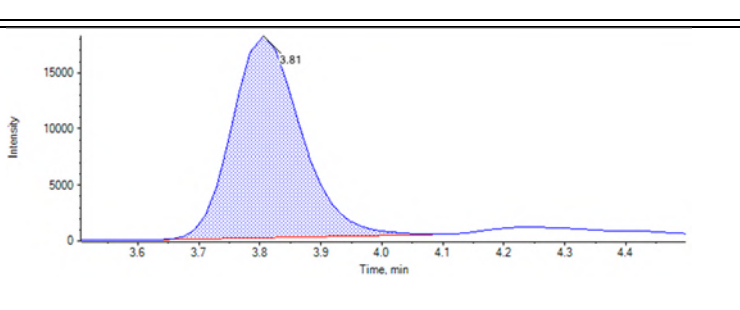
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	11940	3.81	43180	25.00000	20.855428	83
JU05	Standard	3/28/2018 7:57:43 PM	15860	3.81	35040	50.00000	43.460589	87
JU06	Standard	3/28/2018 8:08:31 PM	31620	3.81	36240	100.00000	97.328906	97
JU07	Standard	3/28/2018 8:19:19 PM	84890	3.81	40540	250.00000	254.126128	102
JU08	Standard	3/28/2018 8:30:06 PM	141900	3.81	32440	500.00000	546.898506	109
JU09	Standard	3/28/2018 8:40:53 PM	307800	3.81	37250	1000.00000	1045.976761	105
JU10	Standard	3/28/2018 8:51:40 PM	691400	3.81	31930	2500.00000	2764.238202	111
JU11	Standard	3/28/2018 9:02:26 PM	3047000	3.80	33740	10000.00000	11574.054096	116
JU12	Standard	3/28/2018 9:13:13 PM	7732000	3.80	54840	20000.00000	18078.061385	90
JP83 IB	Unknown	3/28/2018 9:23:58 PM	38830	3.80	40380	N/A	108.789748	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	270800	3.80	33620	1000.00000	1019.007224	102
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	41120	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	39870	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	876500	3.79	40420	N/A	2768.545227	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	10620	3.79	21520	N/A	48.727607	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1823000	3.78	24330	N/A	9601.271248	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	2084000	3.79	28960	N/A	9218.516886	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	17920	3.79	24230	N/A	80.272065	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	8380	3.79	24120	N/A	29.962213	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33720	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	383100	3.79	43890	1000.00000	1105.731264	111
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	21510	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	26430	N/A	N/A	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>43010</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	24340	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	19400	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	32290	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	899700	3.78	40960	2500.00000	2804.292375	112

Dilution not needed. DMS 4/4/2018

**Chromatograms:**

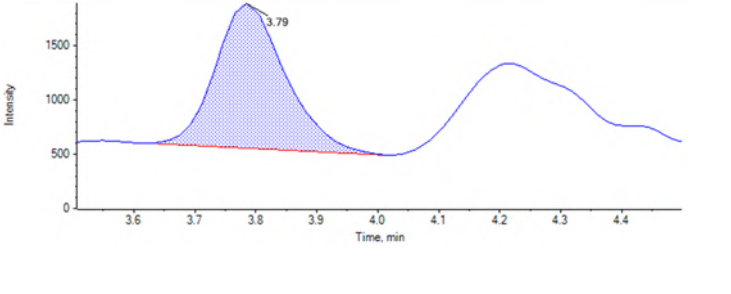
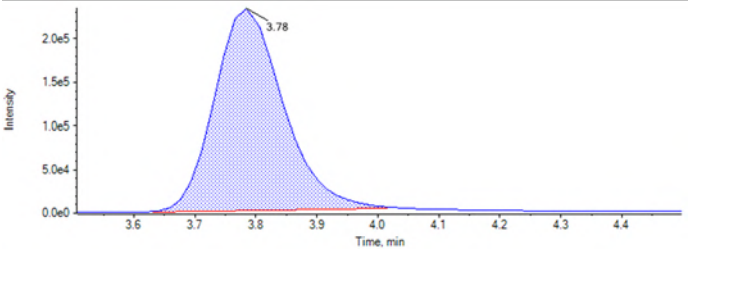
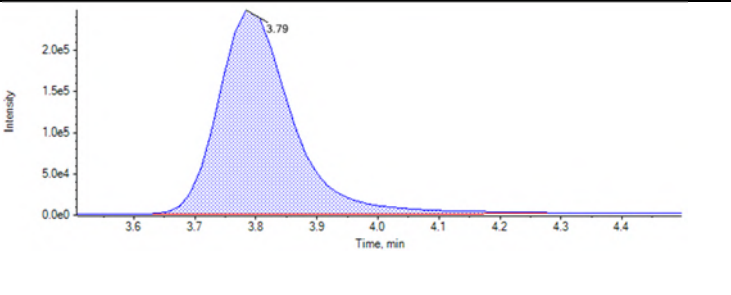
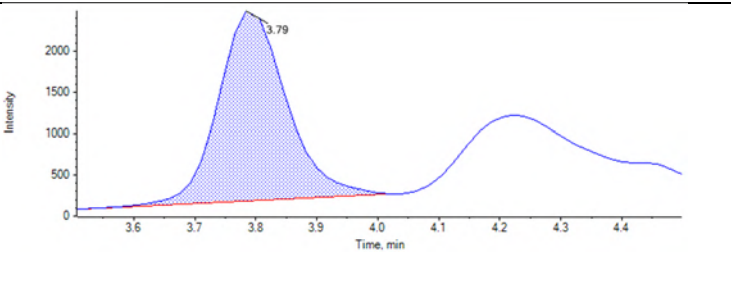
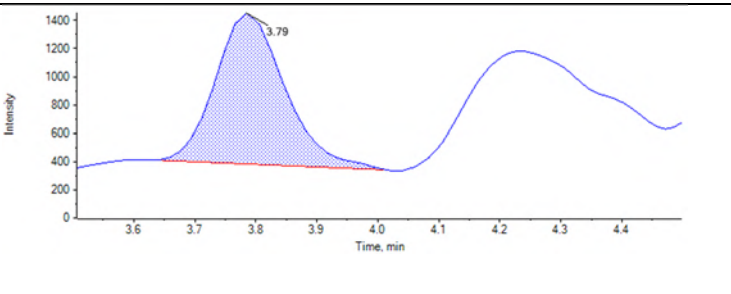


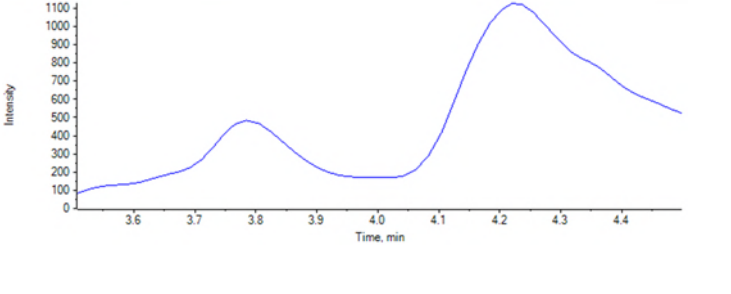
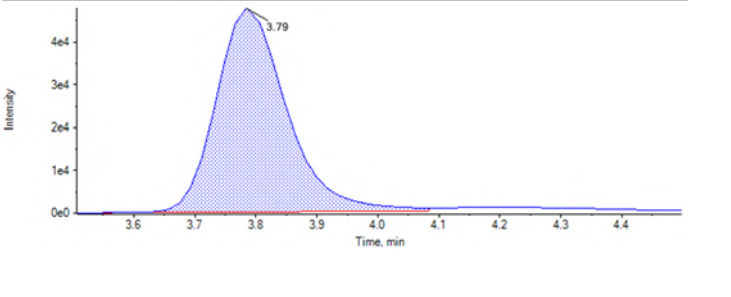
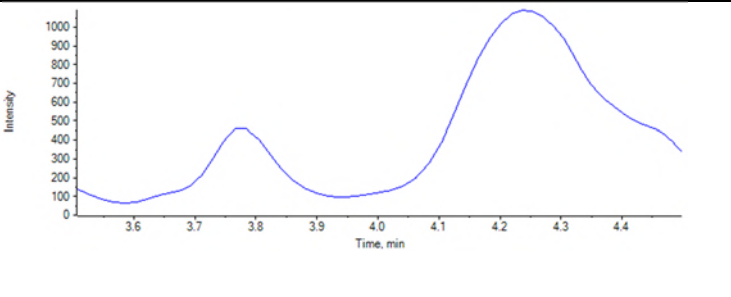
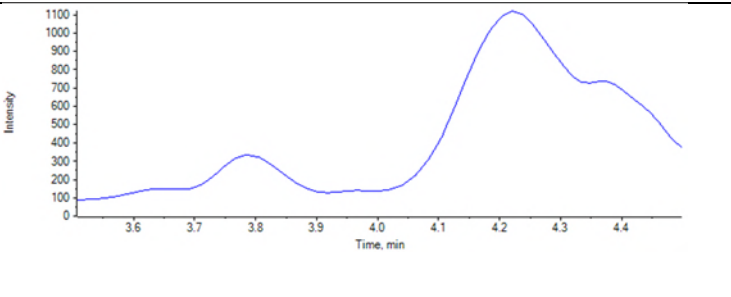
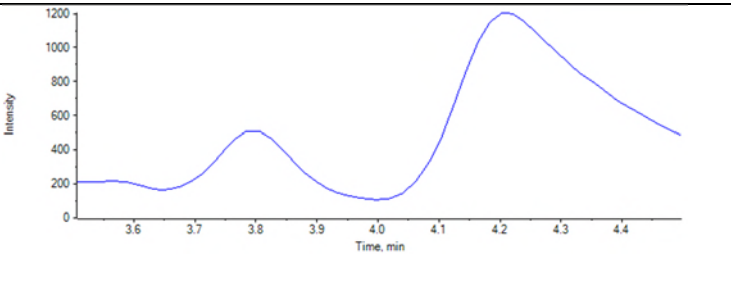
<p>JU04</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 20.855428 ng/L</p> <p>Area: 1.194e4</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 43.460589 ng/L</p> <p>Area: 1.586e4</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 97.328906 ng/L</p> <p>Area: 3.162e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 254.126128 ng/L</p> <p>Area: 8.489e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 546.898506 ng/L</p> <p>Area: 1.419e5</p> <p>Modified: (False)</p>	



<p>JU09</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 1045.976761 ng/L</p> <p>Area: 3.078e5</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 2764.238202 ng/L</p> <p>Area: 6.914e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.80 (3.75) min</p> <p>Calculated Conc: 11574.054096 ng/L</p> <p>Area: 3.047e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.80 (3.75) min</p> <p>Calculated Conc: 18078.061385 ng/L</p> <p>Area: 7.732e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.80 (3.75) min</p> <p>Calculated Conc: 108.789748 ng/L</p> <p>Area: 3.883e4</p> <p>Modified: (False)</p>	

<p>JU13 ICC</p> <p>RT (Exp. RT): 3.80 (3.75) min</p> <p>Calculated Conc: 1019.007224 ng/L</p> <p>Area: 2.708e5</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 2768.545227 ng/L</p> <p>Area: 8.765e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 48.727607 ng/L</p> <p>Area: 1.062e4</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 9601.271248 ng/L</p> <p>Area: 1.823e6</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 9218.516886 ng/L</p> <p>Area: 2.084e6</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 80.272065 ng/L</p> <p>Area: 1.792e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 29.962213 ng/L</p> <p>Area: 8.380e3</p> <p>Modified: (True)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 1105.731264 ng/L</p> <p>Area: 3.831e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p><del>J5394-FS-D(5)</del></p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 2804.292375 ng/L</p> <p>Area: 8.997e5</p> <p>Modified: (False)</p>	

**Analyte:** PFDa\_2 (613.0 / 319.0)

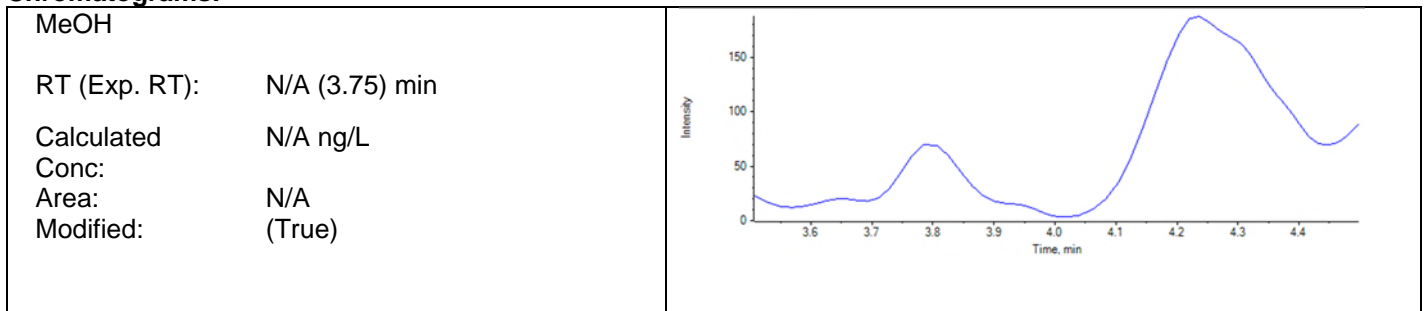
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

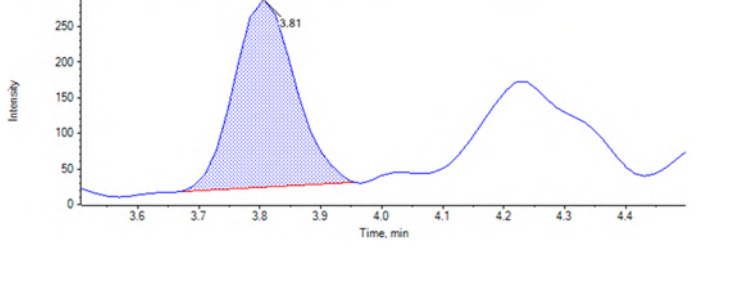
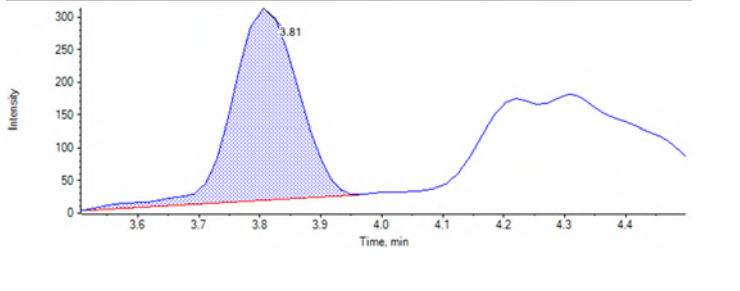
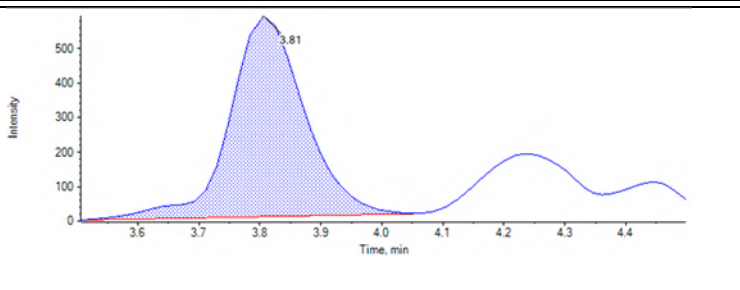
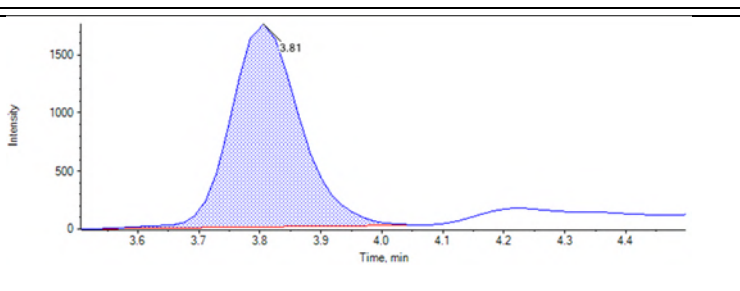
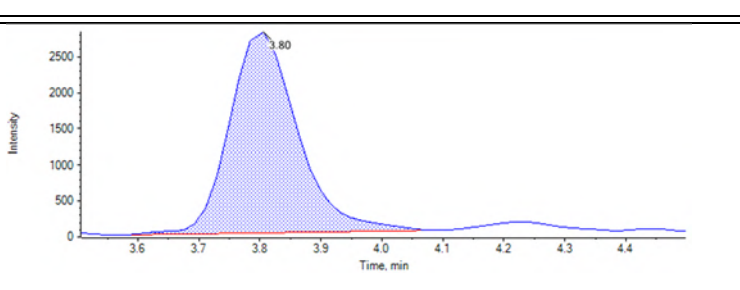
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	1834	3.81	43180	25.00000	32.406706	130
JU05	Standard	3/28/2018 7:57:43 PM	2224	3.81	35040	50.00000	46.829534	94
JU06	Standard	3/28/2018 8:08:31 PM	4958	3.81	36240	100.00000	97.165942	97
JU07	Standard	3/28/2018 8:19:19 PM	13770	3.81	40540	250.00000	236.471294	95
JU08	Standard	3/28/2018 8:30:06 PM	21720	3.80	32440	500.00000	462.765301	93
JU09	Standard	3/28/2018 8:40:53 PM	48290	3.81	37250	1000.00000	893.050019	89
JU10	Standard	3/28/2018 8:51:40 PM	118500	3.80	31930	2500.00000	2551.282434	102
JU11	Standard	3/28/2018 9:02:26 PM	496600	3.80	33740	10000.00000	10105.028769	101
JU12	Standard	3/28/2018 9:13:13 PM	1208000	3.80	54840	20000.00000	15117.879245	76
JP83 IB	Unknown	3/28/2018 9:23:58 PM	7013	3.80	40380	N/A	122.470136	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	44340	3.80	33620	1000.00000	908.538605	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	41120	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	39870	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	139700	3.80	40420	N/A	2375.925579	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	1558	3.79	21520	N/A	52.959991	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	282800	3.78	24330	N/A	7982.727906	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	336800	3.79	28960	N/A	7984.762622	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	2979	3.78	24230	N/A	87.642239	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	24120	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33720	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	60750	3.79	43890	1000.00000	953.387871	95
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	21510	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	26430	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	43010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	24340	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	19400	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	32290	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	132800	3.78	40960	2500.00000	2228.780598	89

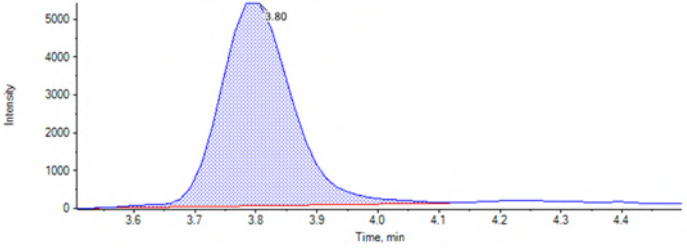
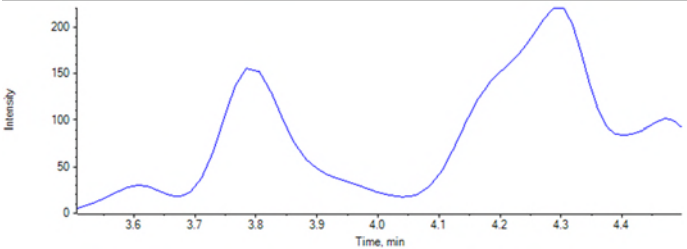
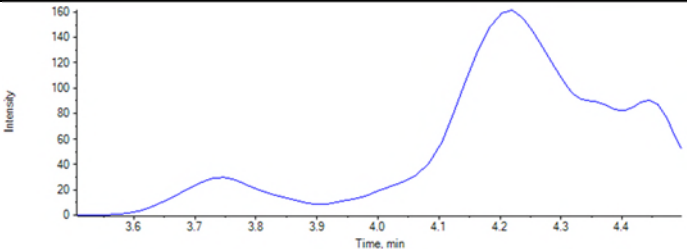
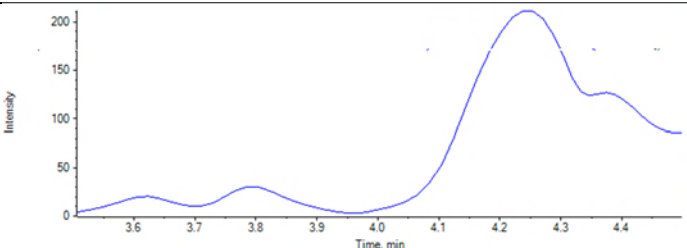
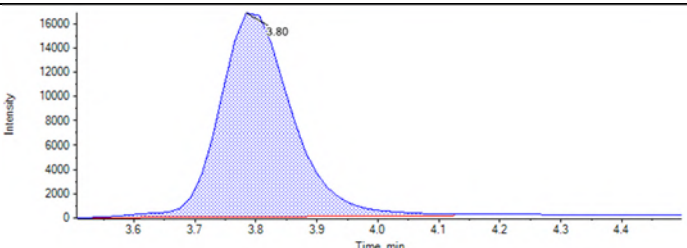
**Chromatograms:**

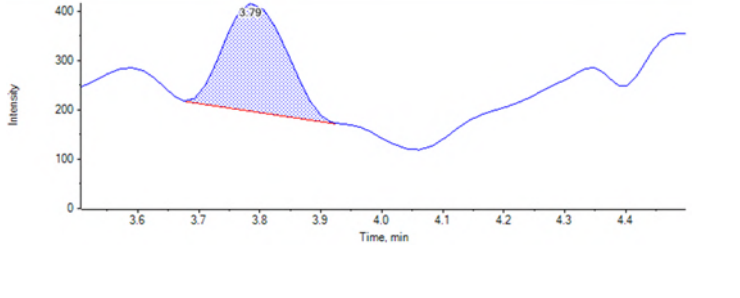
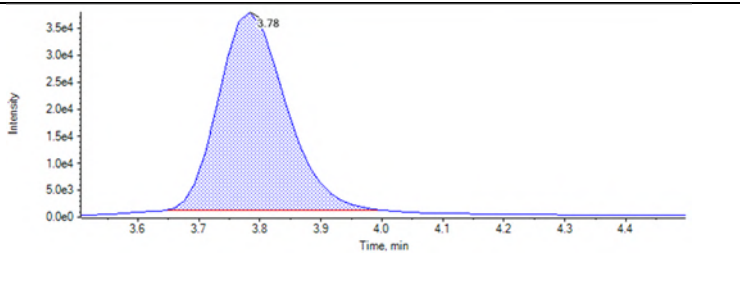
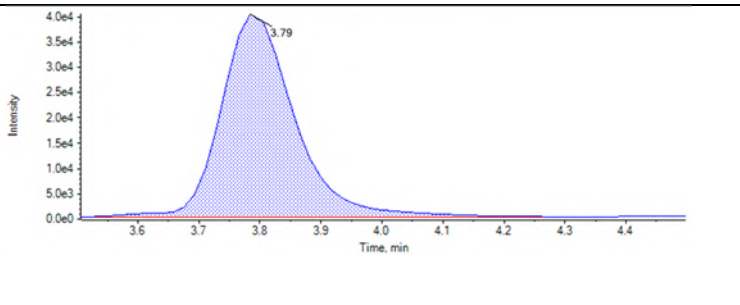
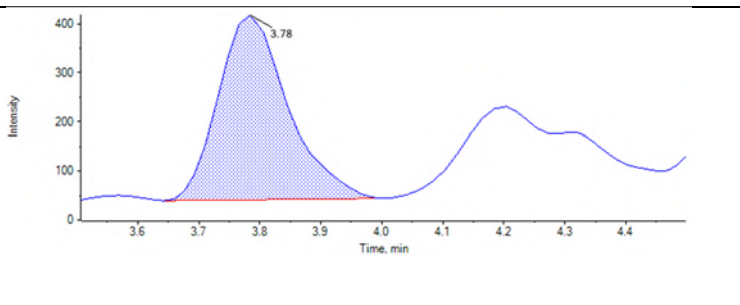
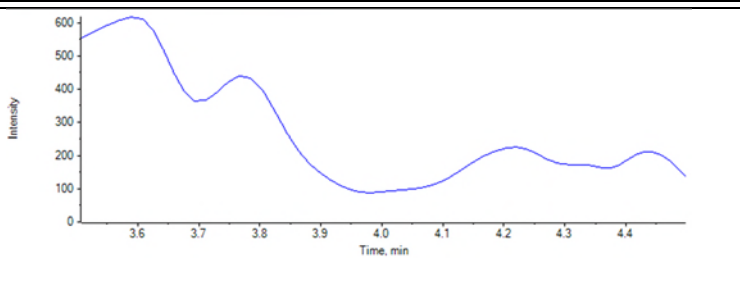


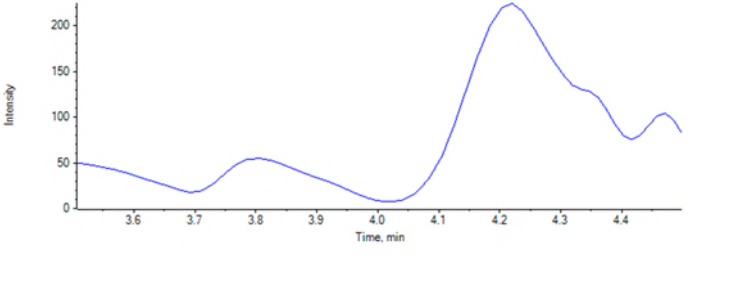
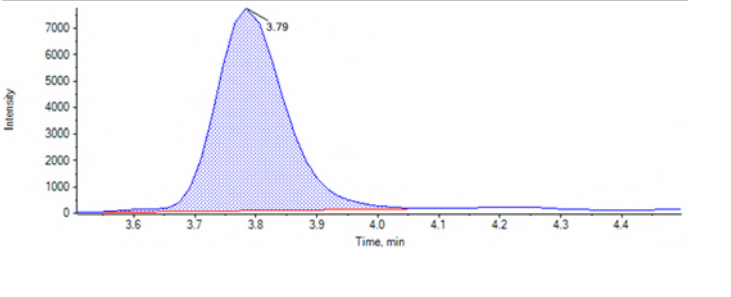
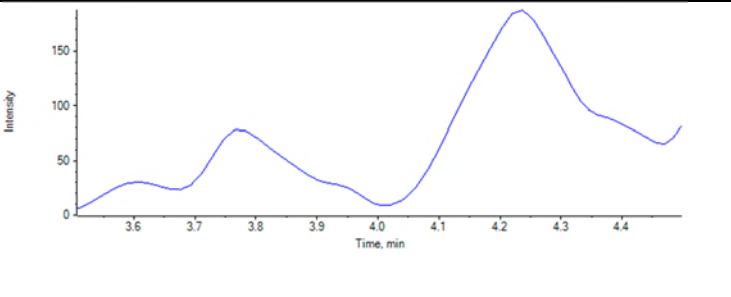
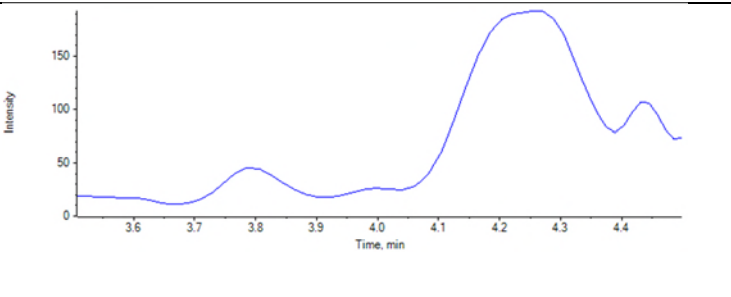
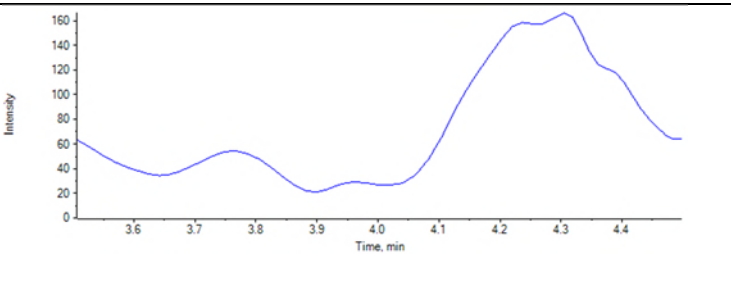


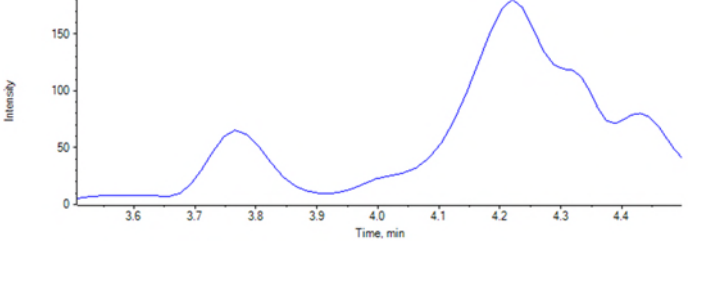
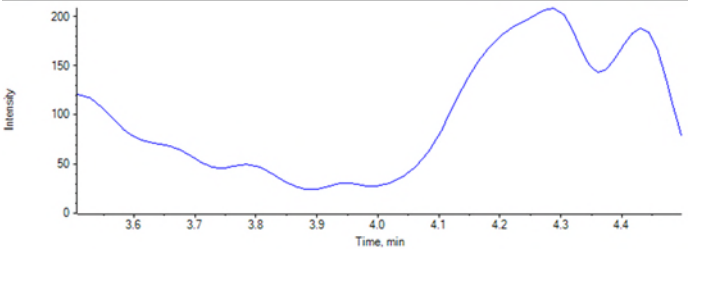
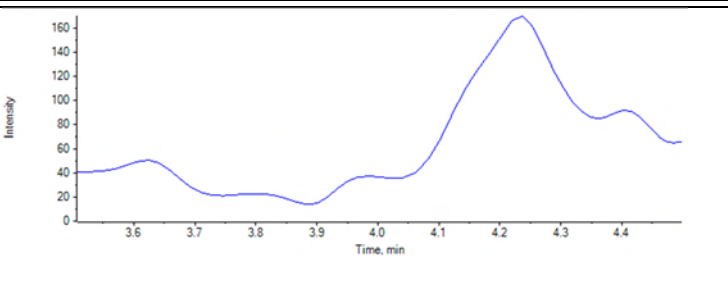
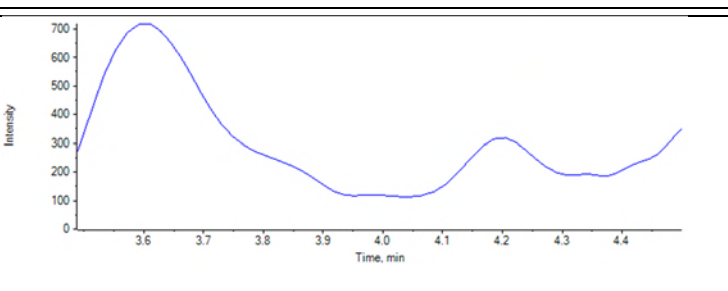
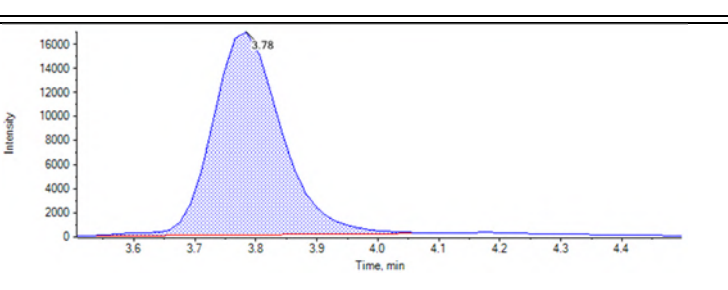
<p>JU04</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 32.406706 ng/L</p> <p>Area: 1.834e3</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 46.829534 ng/L</p> <p>Area: 2.224e3</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 97.165942 ng/L</p> <p>Area: 4.958e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 236.471294 ng/L</p> <p>Area: 1.377e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.80 (3.75) min</p> <p>Calculated Conc: 462.765301 ng/L</p> <p>Area: 2.172e4</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 3.81 (3.75) min</p> <p>Calculated Conc: 893.050019 ng/L</p> <p>Area: 4.829e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.80 (3.75) min</p> <p>Calculated Conc: 2551.282434 ng/L</p> <p>Area: 1.185e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.80 (3.75) min</p> <p>Calculated Conc: 10105.028769 ng/L</p> <p>Area: 4.966e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.80 (3.75) min</p> <p>Calculated Conc: 15117.879245 ng/L</p> <p>Area: 1.208e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.80 (3.75) min</p> <p>Calculated Conc: 122.470136 ng/L</p> <p>Area: 7.013e3</p> <p>Modified: (False)</p>	

<p>JU13 ICC</p> <p>RT (Exp. RT): 3.80 (3.75) min</p> <p>Calculated Conc: 908.538605 ng/L</p> <p>Area: 4.434e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.80 (3.75) min</p> <p>Calculated Conc: 2375.925579 ng/L</p> <p>Area: 1.397e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 52.959991 ng/L</p> <p>Area: 1.558e3</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 7982.727906 ng/L</p> <p>Area: 2.828e5</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 7984.762622 ng/L</p> <p>Area: 3.368e5</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 87.642239 ng/L</p> <p>Area: 2.979e3</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 953.387871 ng/L</p> <p>Area: 6.075e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 2228.780598 ng/L</p> <p>Area: 1.328e5</p> <p>Modified: (False)</p>	

Analyte: PFTTrDA\_1 (663.0 / 619.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	8538	4.07	36180	25.00000	3.628306	45
JU05	Standard	3/28/2018 7:57:43 PM	13590	4.07	29590	50.00000	35.913950	72
JU06	Standard	3/28/2018 8:08:31 PM	26150	4.07	30760	100.00000	92.386404	92
JU07	Standard	3/28/2018 8:19:19 PM	69380	4.07	33650	250.00000	267.580630	107
JU08	Standard	3/28/2018 8:30:06 PM	118600	4.07	30280	500.00000	535.938234	107
JU09	Standard	3/28/2018 8:40:53 PM	251800	4.07	32890	1000.00000	1076.274180	108
JU10	Standard	3/28/2018 8:51:40 PM	579600	4.07	30100	2500.00000	2753.169286	110
JU11	Standard	3/28/2018 9:02:26 PM	2529000	4.06	32780	10000.00000	11123.584284	111
JU12	Standard	3/28/2018 9:13:13 PM	6552000	4.06	51080	20000.00000	18515.153032	93
JP83 IB	Unknown	3/28/2018 9:23:58 PM	31670	4.06	33830	N/A	104.823766	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	231900	4.06	28620	1000.00000	1140.943637	114
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	641400	4.05	26510	N/A	3467.439376	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	9353	4.05	15240	N/A	58.243760	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1381000	4.04	15740	N/A	12653.812215	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1646000	4.05	19790	N/A	11988.082436	N/A

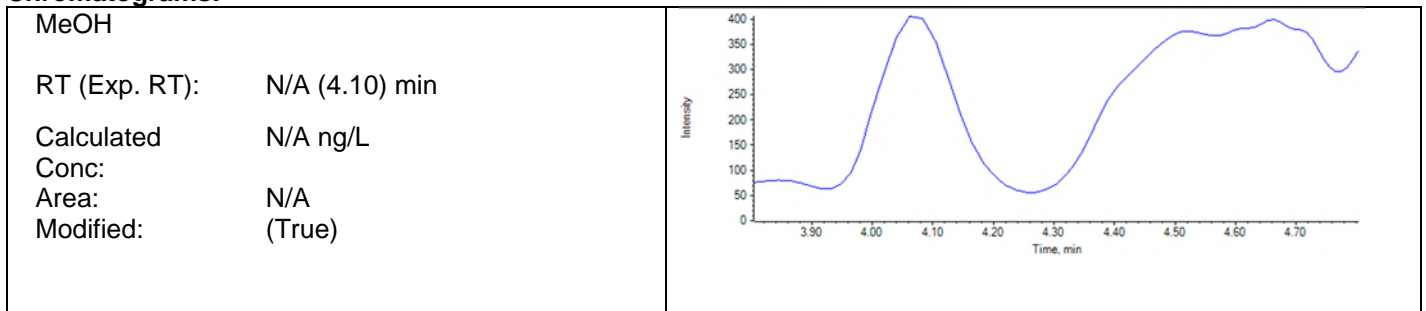
Not being used in this calibration.  
 DMS 4/4/2018

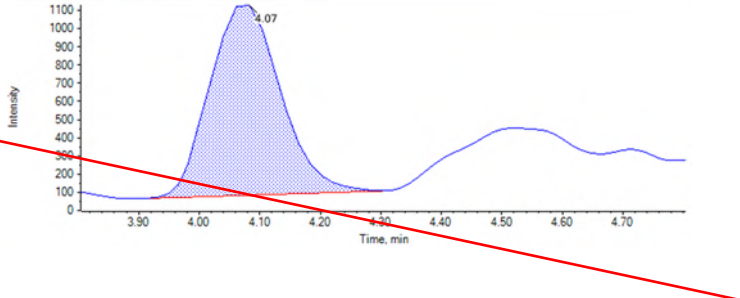
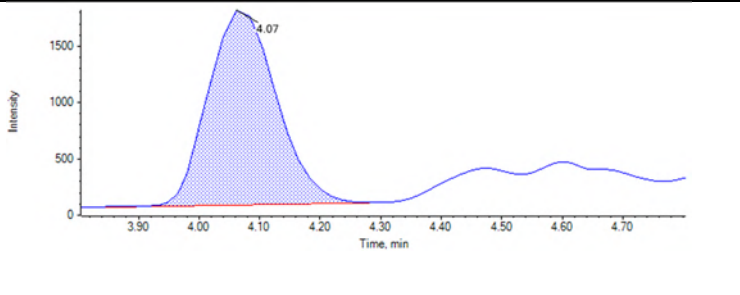
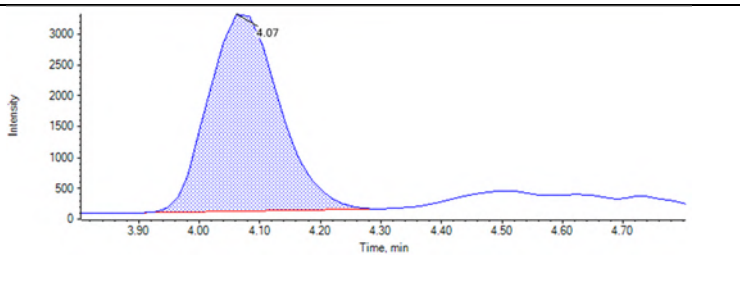
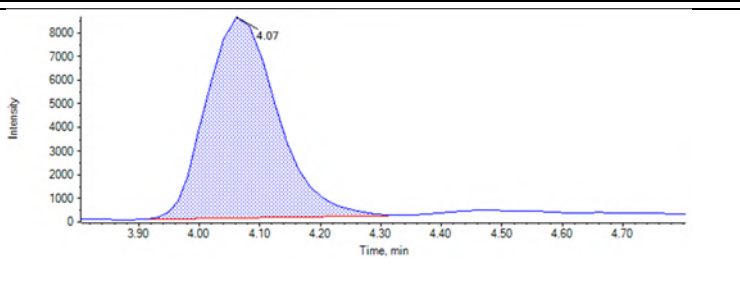
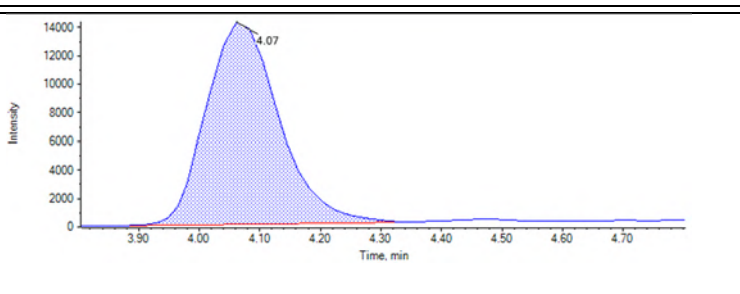


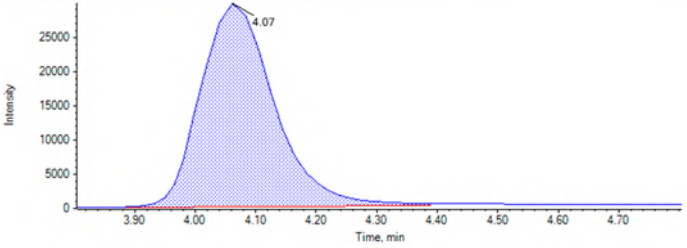
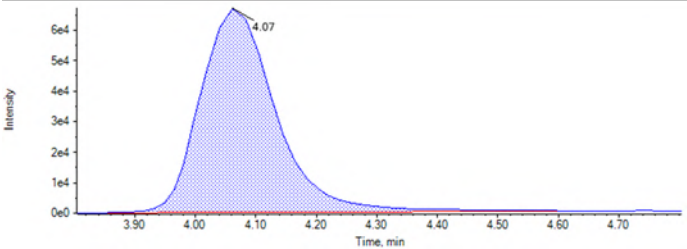
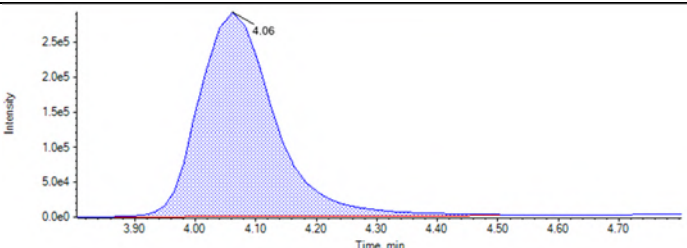
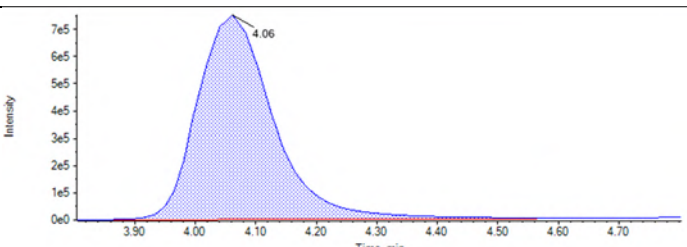
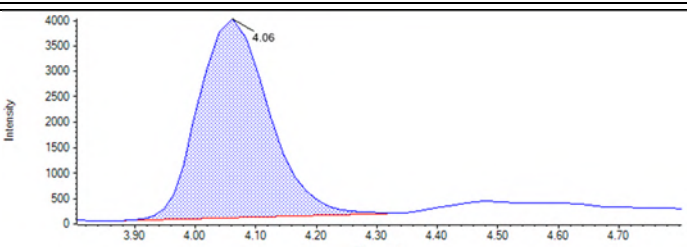
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	11480	4.05	22930	N/A	41.906774	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	5652	4.05	16090	N/A	20.291828	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	2366	4.04	18340	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	322900	4.04	39060	1000.00000	1164.494367	116
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	1689	4.05	16530	N/A	< 0	N/A
<del>J5394-FS(4)</del>	<del>Unknown</del>	<del>3/29/2018 12:48:42 AM</del>	<del>1934</del>	<del>4.05</del>	<del>18970</del>	<del>N/A</del>	<del>&lt; 0</del>	<del>N/A</del>
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	36010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	765400	4.04	38240	2500.00000	2863.245587	115

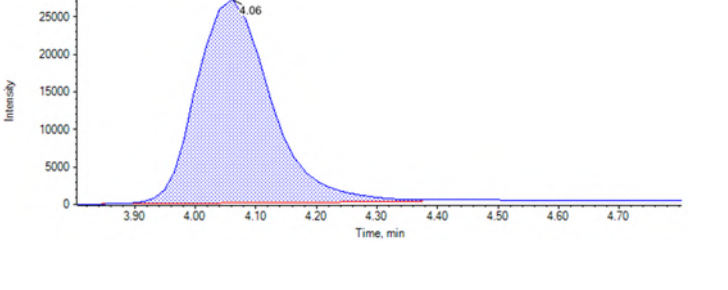
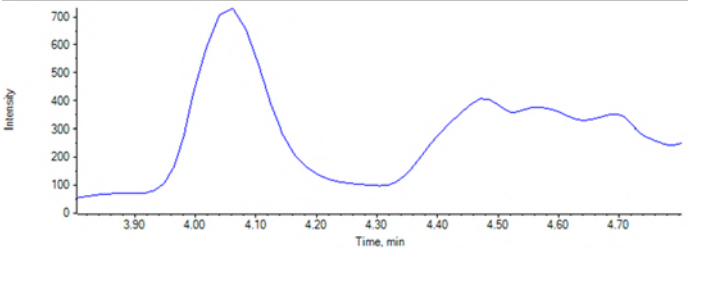
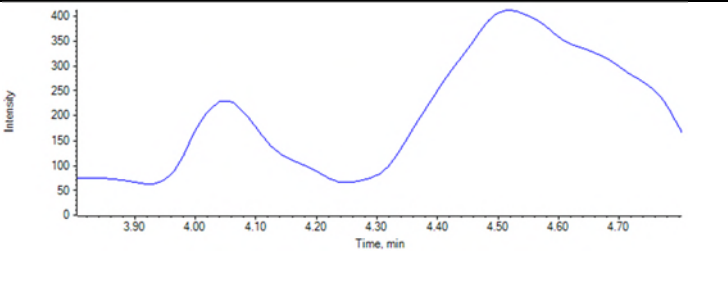
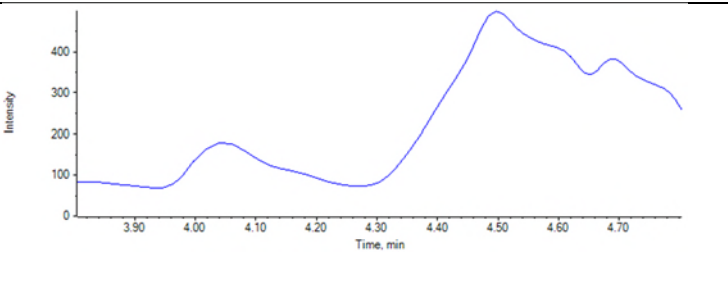
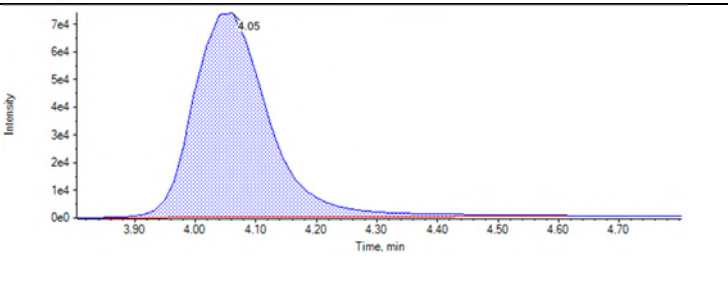
Dilution not needed. DMS 4/4/2018

**Chromatograms:**

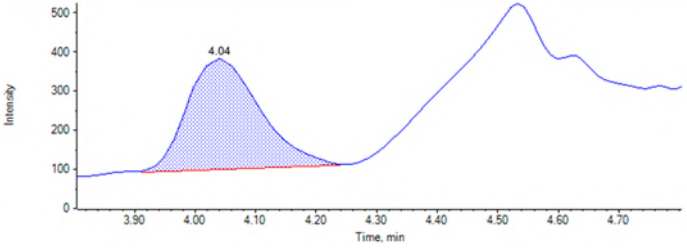
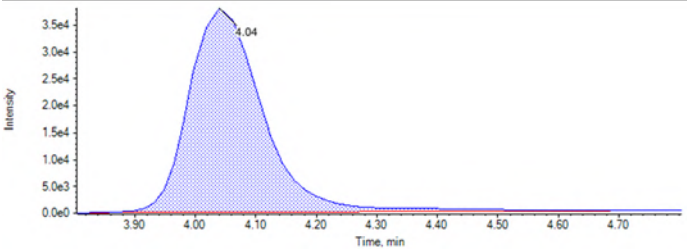
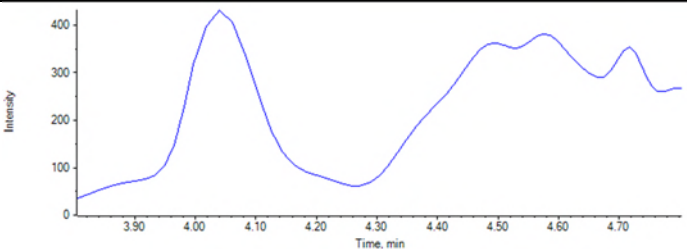
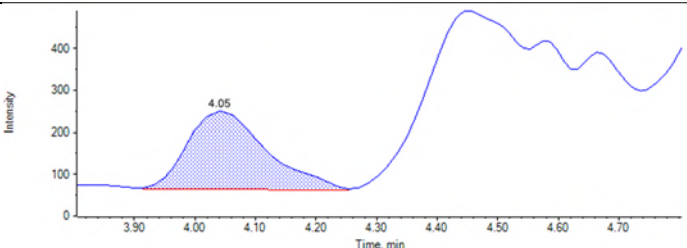
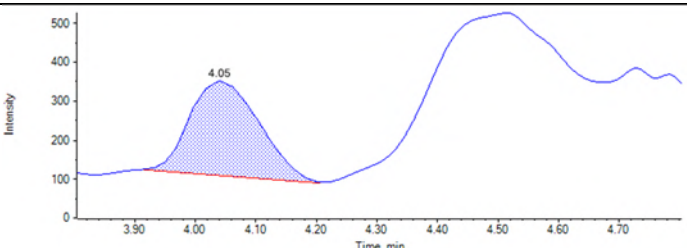


<p>JU04</p> <p>RT (Exp. RT): 4.07 (4.10) min</p> <p>Calculated Conc: 3.628306 ng/L</p> <p>Area: 8.538e3</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.07 (4.10) min</p> <p>Calculated Conc: 35.913950 ng/L</p> <p>Area: 1.359e4</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.07 (4.10) min</p> <p>Calculated Conc: 92.386404 ng/L</p> <p>Area: 2.615e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 4.07 (4.10) min</p> <p>Calculated Conc: 267.580630 ng/L</p> <p>Area: 6.938e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 4.07 (4.10) min</p> <p>Calculated Conc: 535.938234 ng/L</p> <p>Area: 1.186e5</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 4.07 (4.10) min</p> <p>Calculated Conc: 1076.274180 ng/L</p> <p>Area: 2.518e5</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 4.07 (4.10) min</p> <p>Calculated Conc: 2753.169286 ng/L</p> <p>Area: 5.796e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 4.06 (4.10) min</p> <p>Calculated Conc: 11123.584284 ng/L</p> <p>Area: 2.529e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 4.06 (4.10) min</p> <p>Calculated Conc: 18515.153032 ng/L</p> <p>Area: 6.552e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 4.06 (4.10) min</p> <p>Calculated Conc: 104.823766 ng/L</p> <p>Area: 3.167e4</p> <p>Modified: (False)</p>	

<p>JU13 ICC</p> <p>RT (Exp. RT): 4.06 (4.10) min</p> <p>Calculated Conc: 1140.943637 ng/L</p> <p>Area: 2.319e5</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 3467.439376 ng/L</p> <p>Area: 6.414e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 58.243760 ng/L</p> <p>Area: 9.353e3</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 12653.812215 ng/L</p> <p>Area: 1.381e6</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 11988.082436 ng/L</p> <p>Area: 1.646e6</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 41.906774 ng/L</p> <p>Area: 1.148e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 20.291828 ng/L</p> <p>Area: 5.652e3</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 2.366e3</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 1164.494367 ng/L</p> <p>Area: 3.229e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.689e3</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.934e3</p> <p>Modified: (True)</p>	



<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 2863.245587 ng/L</p> <p>Area: 7.654e5</p> <p>Modified: (False)</p>	



**Analyte:** PFTTrDA\_2 (663.0 / 169.0)

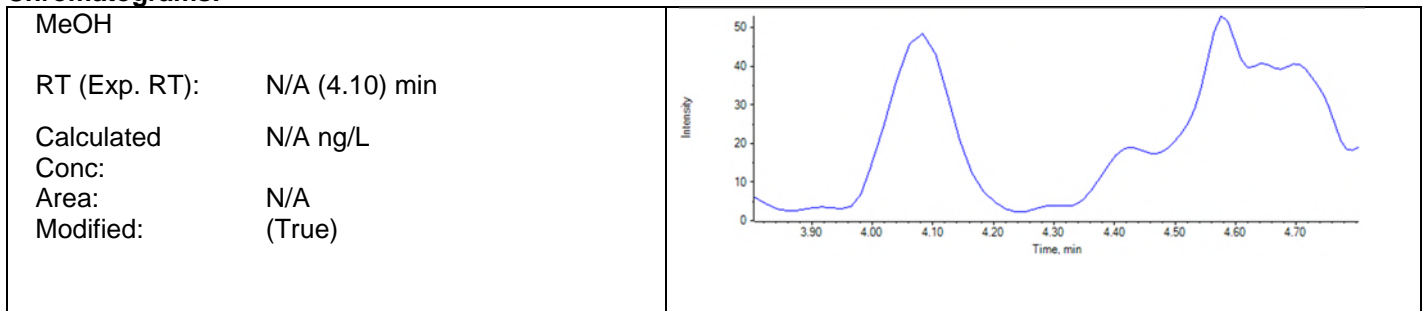
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<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

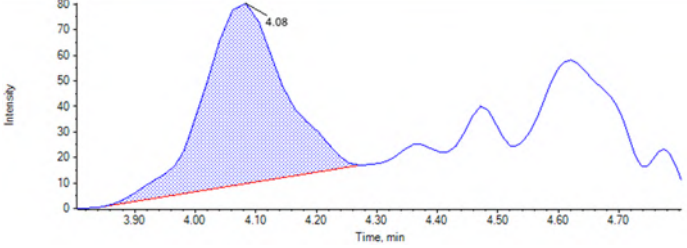
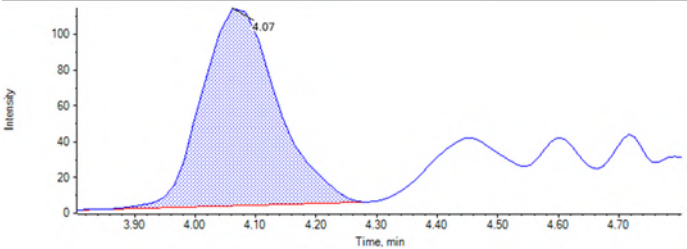
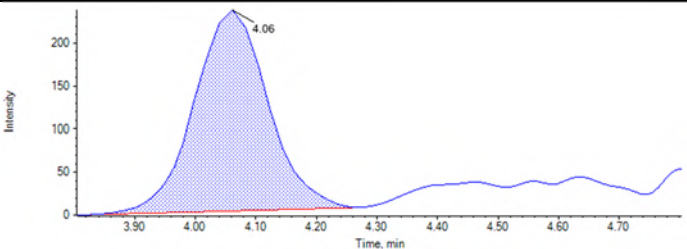
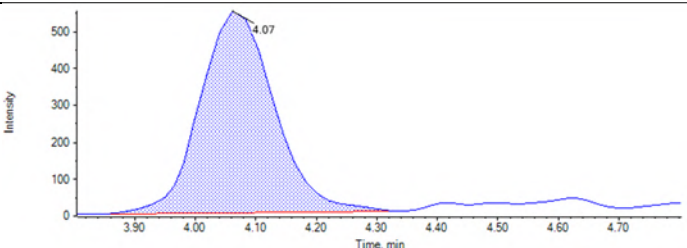
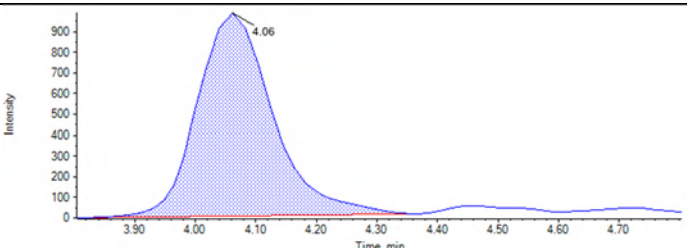
**Samples:**

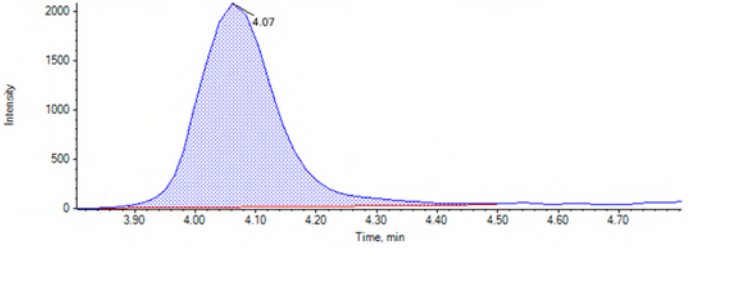
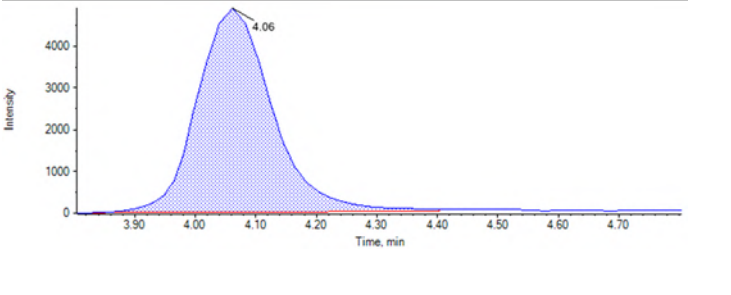
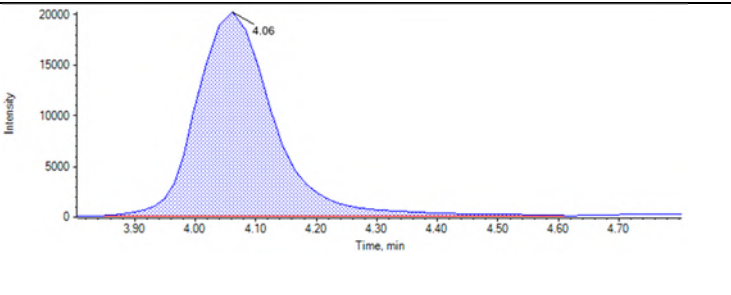
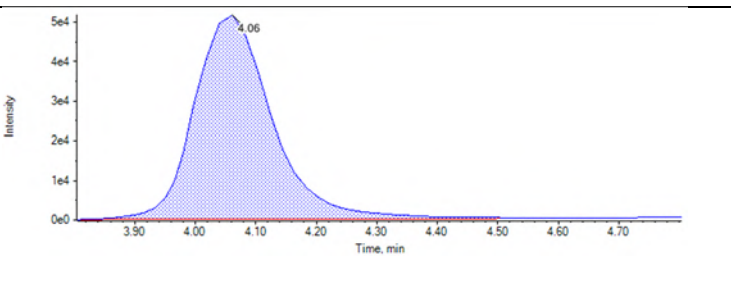
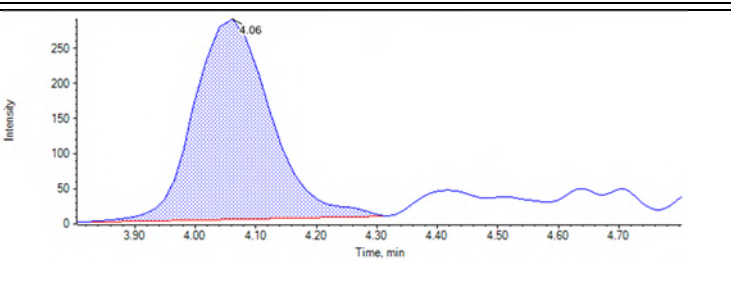
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	658	4.08	36180	25.00000	< 0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	960	4.07	29590	50.00000	11.465455	23
JU06	Standard	3/28/2018 8:08:31 PM	1978	4.06	30760	100.00000	76.773814	77
JU07	Standard	3/28/2018 8:19:19 PM	4678	4.07	33650	250.00000	229.999584	92
JU08	Standard	3/28/2018 8:30:06 PM	8497	4.06	30280	500.00000	520.388921	104
JU09	Standard	3/28/2018 8:40:53 PM	18650	4.07	32890	1000.00000	1107.771007	111
JU10	Standard	3/28/2018 8:51:40 PM	42170	4.06	30100	2500.00000	2817.086727	113
JU11	Standard	3/28/2018 9:02:26 PM	179000	4.06	32780	10000.00000	11139.619812	111
JU12	Standard	3/28/2018 9:13:13 PM	461200	4.06	51080	20000.00000	18458.360135	92
JP83 IB	Unknown	3/28/2018 9:23:58 PM	2520	4.06	33830	N/A	97.662844	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	16290	4.05	28620	1000.00000	1112.412360	111
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	46760	4.05	26510	N/A	3561.701771	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	705	4.03	15240	N/A	39.795788	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	99370	4.04	15740	N/A	12892.328632	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	120800	4.05	19790	N/A	12460.109656	N/A

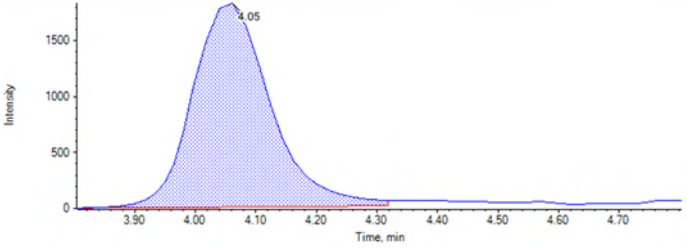
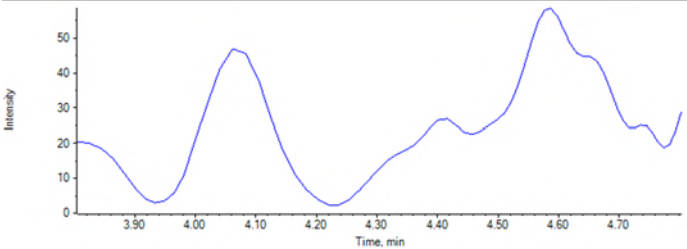
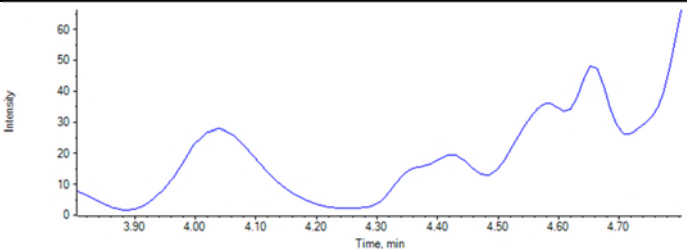
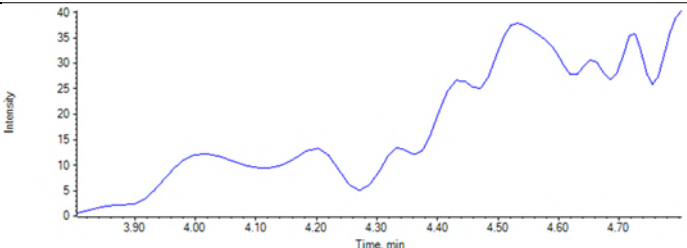
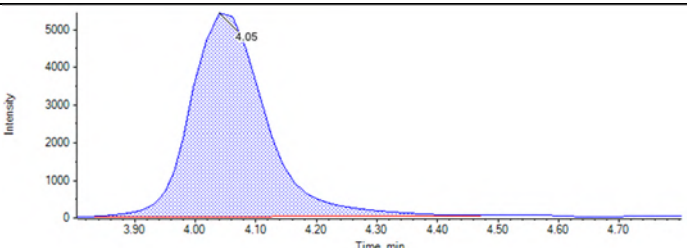
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	990	4.03	22930	N/A	33.462107	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	815	4.04	16090	N/A	48.738440	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	18340	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	22990	4.04	39060	1000.00000	1151.971385	115
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	16530	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	18970	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	36010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	51910	4.04	38240	2500.00000	2728.654270	109

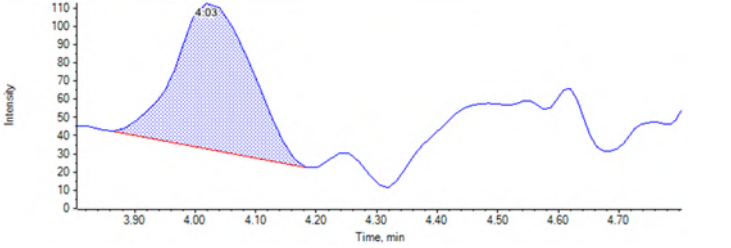
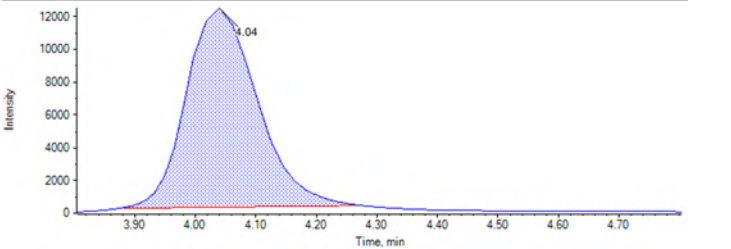
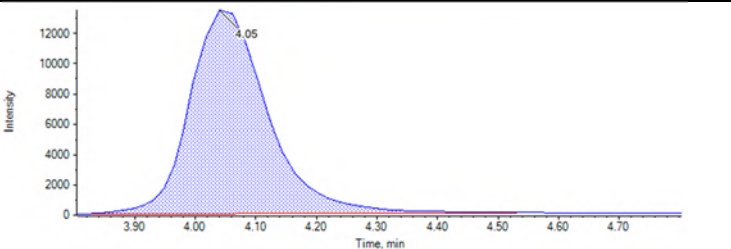
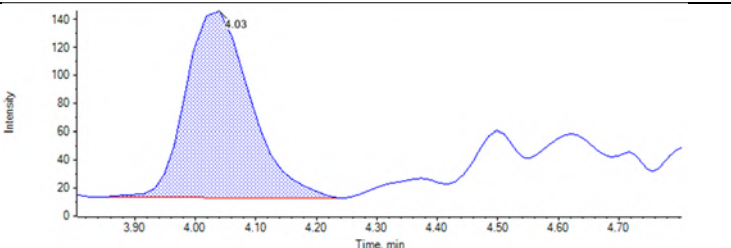
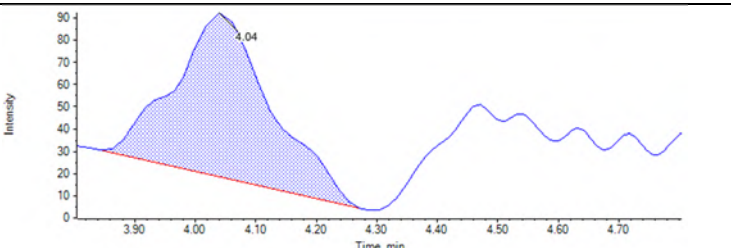
**Chromatograms:**



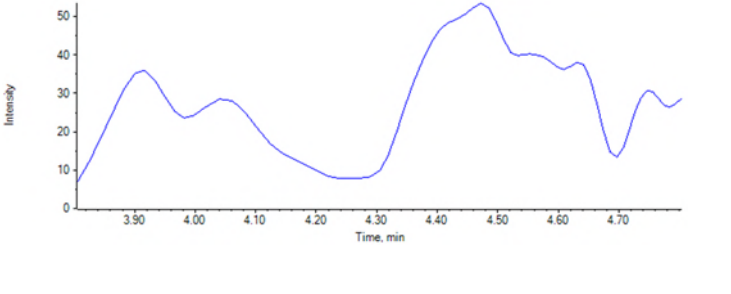
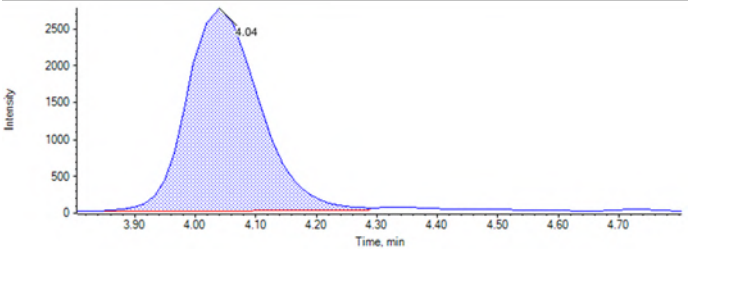
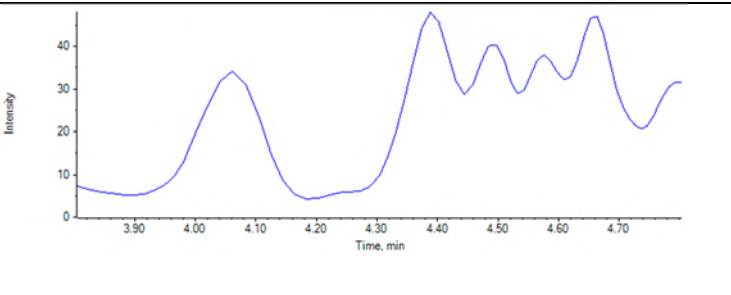
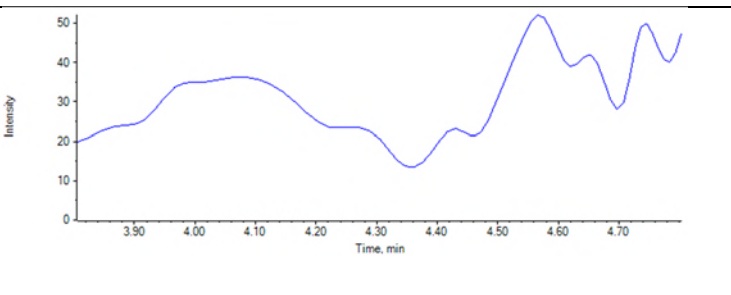
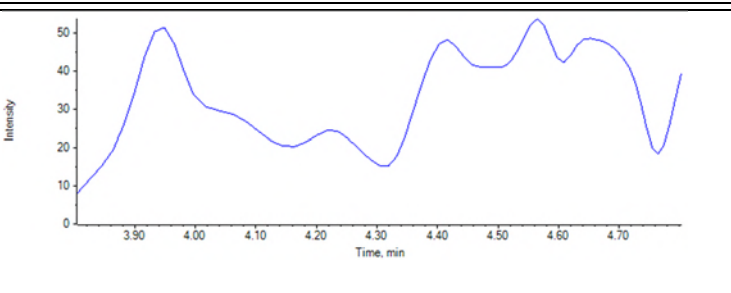
<p>JU04</p> <p>RT (Exp. RT): 4.08 (4.10) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 6.579e2</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.07 (4.10) min</p> <p>Calculated Conc: 11.465455 ng/L</p> <p>Area: 9.603e2</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.06 (4.10) min</p> <p>Calculated Conc: 76.773814 ng/L</p> <p>Area: 1.978e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 4.07 (4.10) min</p> <p>Calculated Conc: 229.999584 ng/L</p> <p>Area: 4.678e3</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 4.06 (4.10) min</p> <p>Calculated Conc: 520.388921 ng/L</p> <p>Area: 8.497e3</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 4.07 (4.10) min</p> <p>Calculated Conc: 1107.771007 ng/L</p> <p>Area: 1.865e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 4.06 (4.10) min</p> <p>Calculated Conc: 2817.086727 ng/L</p> <p>Area: 4.217e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 4.06 (4.10) min</p> <p>Calculated Conc: 11139.619812 ng/L</p> <p>Area: 1.790e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 4.06 (4.10) min</p> <p>Calculated Conc: 18458.360135 ng/L</p> <p>Area: 4.612e5</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 4.06 (4.10) min</p> <p>Calculated Conc: 97.662844 ng/L</p> <p>Area: 2.520e3</p> <p>Modified: (False)</p>	

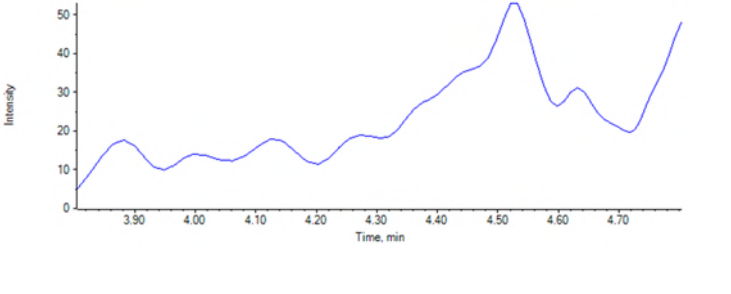
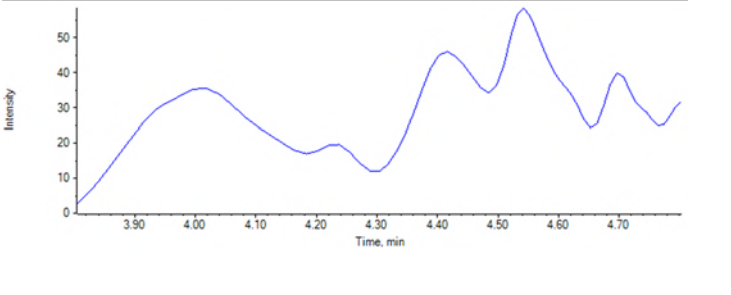
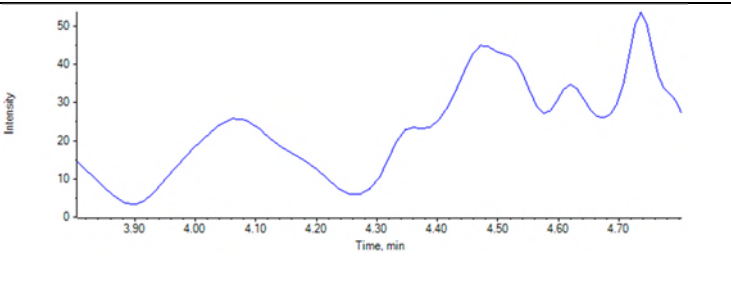
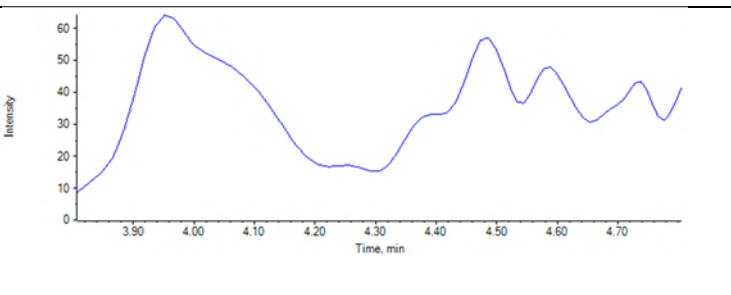
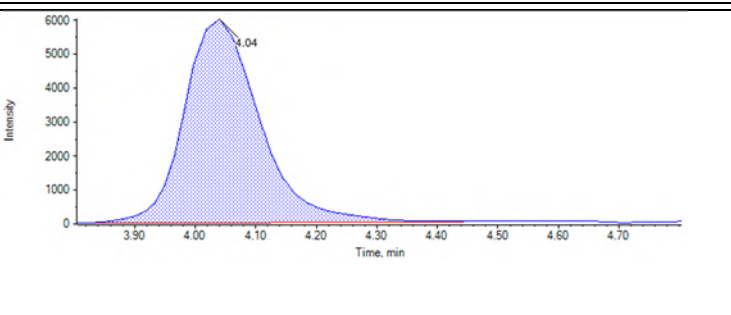
<p>JU13 ICC</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 1112.412360 ng/L</p> <p>Area: 1.629e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 3561.701771 ng/L</p> <p>Area: 4.676e4</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 4.03 (4.10) min</p> <p>Calculated Conc: 39.795788 ng/L</p> <p>Area: 7.051e2</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 12892.328632 ng/L</p> <p>Area: 9.937e4</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 12460.109656 ng/L</p> <p>Area: 1.208e5</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 4.03 (4.10) min</p> <p>Calculated Conc: 33.462107 ng/L</p> <p>Area: 9.903e2</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 48.738440 ng/L</p> <p>Area: 8.148e2</p> <p>Modified: (False)</p>	



<p>J5390-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 1151.971385 ng/L</p> <p>Area: 2.299e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	



<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 2728.654270 ng/L</p> <p>Area: 5.191e4</p> <p>Modified: (False)</p>	

**Analyte:** PFTeDA\_1 (713.0 / 669.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

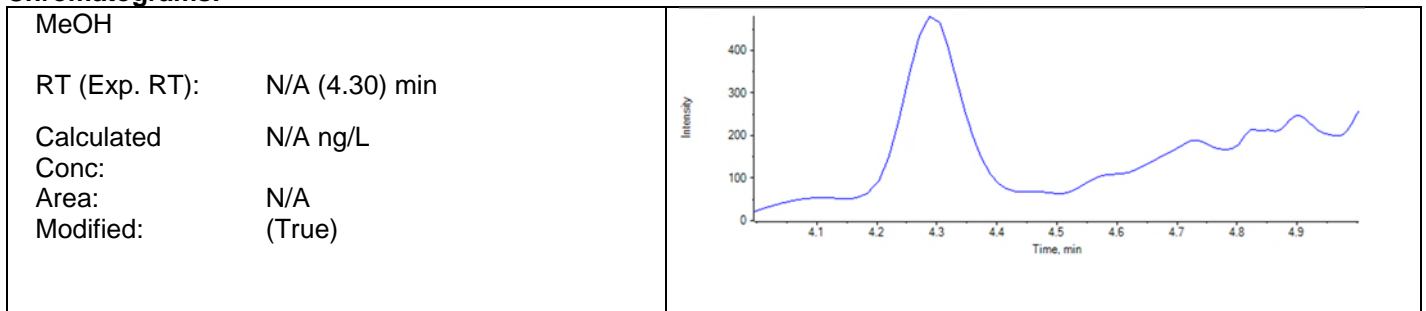
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	11190	4.29	36180	25.00000	<0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	14770	4.29	29590	50.00000	8.698838	17
JU06	Standard	3/28/2018 8:08:31 PM	30670	4.29	30760	100.00000	71.817555	72
JU07	Standard	3/28/2018 8:19:19 PM	79540	4.29	33650	250.00000	245.085808	98
JU08	Standard	3/28/2018 8:30:06 PM	136700	4.29	30280	500.00000	517.938481	104
JU09	Standard	3/28/2018 8:40:53 PM	301000	4.29	32890	1000.00000	1105.559256	111
JU10	Standard	3/28/2018 8:51:40 PM	687300	4.29	30100	2500.00000	2839.848279	114
JU11	Standard	3/28/2018 9:02:26 PM	2836000	4.28	32780	10000.00000	10912.363228	109
JU12	Standard	3/28/2018 9:13:13 PM	7539000	4.28	51080	20000.00000	18657.387394	93
JP83 IB	Unknown	3/28/2018 9:23:58 PM	39300	4.28	33830	N/A	92.670988	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	263900	4.28	28620	1000.00000	1114.600684	111
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	659700	4.27	26510	N/A	3100.092258	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	7155	4.27	15240	N/A	4.948959	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1476000	4.26	15740	N/A	11832.216726	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1810000	4.27	19790	N/A	11538.789310	N/A

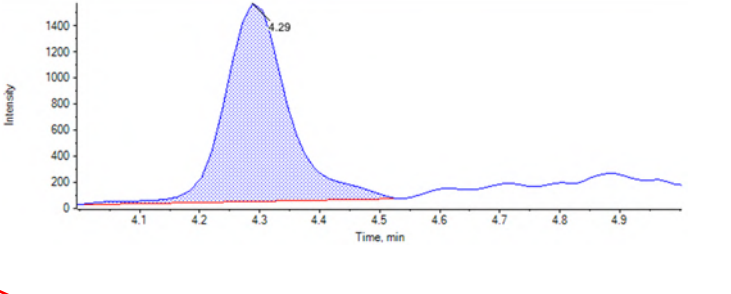
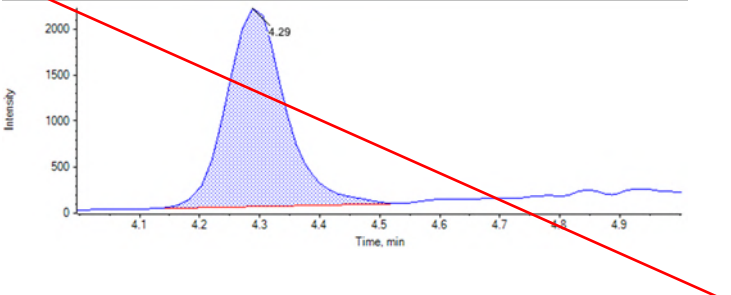
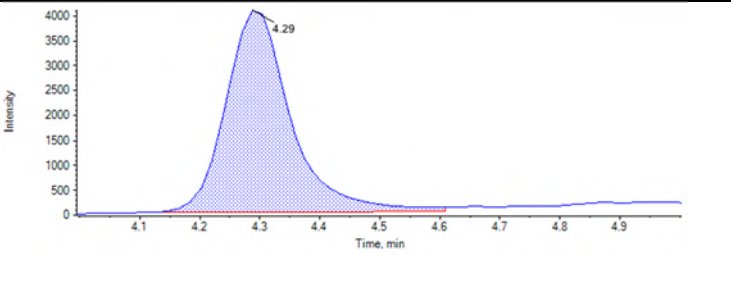
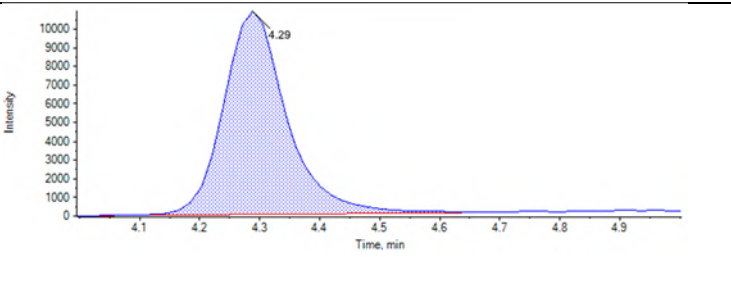
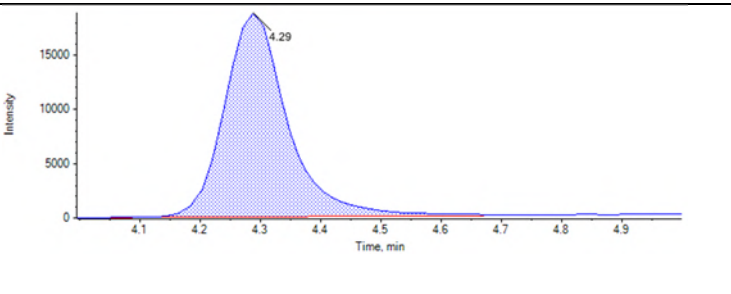
Not being used in this calibration.  
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	9897	4.27	22930	N/A	0.135175	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	4868	4.27	16090	N/A	< 0	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	1478	4.27	18340	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	371300	4.27	39060	1000.00000	1150.324626	115
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	970	4.27	16530	N/A	< 0	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	1394	4.26	18970	N/A	< 0	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>36010</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	860800	4.26	38240	2500.00000	2799.099453	112

Dilution not needed. DMS 4/4/2018

**Chromatograms:**



<p>JU04</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.119e4</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: 8.698838 ng/L</p> <p>Area: 1.477e4</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: 71.817555 ng/L</p> <p>Area: 3.067e4</p> <p>Modified: (True)</p>	
<p>JU07</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: 245.085808 ng/L</p> <p>Area: 7.954e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: 517.938481 ng/L</p> <p>Area: 1.367e5</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: 1105.559256 ng/L</p> <p>Area: 3.010e5</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: 2839.848279 ng/L</p> <p>Area: 6.873e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 4.28 (4.30) min</p> <p>Calculated Conc: 10912.363228 ng/L</p> <p>Area: 2.836e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 4.28 (4.30) min</p> <p>Calculated Conc: 18657.387394 ng/L</p> <p>Area: 7.539e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 4.28 (4.30) min</p> <p>Calculated Conc: 92.670988 ng/L</p> <p>Area: 3.930e4</p> <p>Modified: (False)</p>	

<p>JU13 ICC</p> <p>RT (Exp. RT): 4.28 (4.30) min</p> <p>Calculated Conc: 1114.600684 ng/L</p> <p>Area: 2.639e5</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 3100.092258 ng/L</p> <p>Area: 6.597e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 4.948959 ng/L</p> <p>Area: 7.155e3</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 11832.216726 ng/L</p> <p>Area: 1.476e6</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 11538.789310 ng/L</p> <p>Area: 1.810e6</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 0.135175 ng/L</p> <p>Area: 9.897e3</p> <p>Modified: (True)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 4.868e3</p> <p>Modified: (True)</p>	



<p>J5390-FS(3)</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.478e3</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 1150.324626 ng/L</p> <p>Area: 3.713e5</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 9.704e2</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.394e3</p> <p>Modified: (True)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 2799.099453 ng/L</p> <p>Area: 8.608e5</p> <p>Modified: (False)</p>	

**Analyte:** PFTeDA\_2 (713.0 / 169.0)

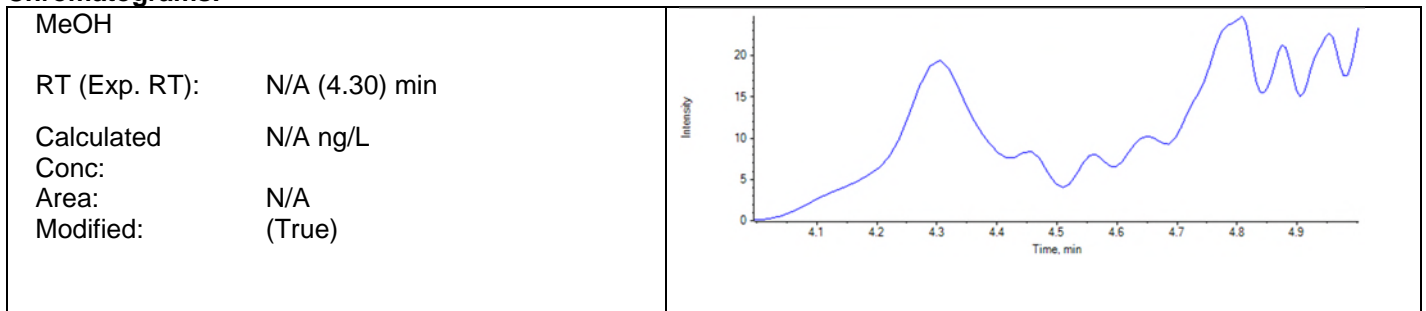
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	372	4.29	36180	25.00000	< 0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	793	4.30	29590	50.00000	5.879418	12
JU06	Standard	3/28/2018 8:08:31 PM	1681	4.29	30760	100.00000	72.757944	73
JU07	Standard	3/28/2018 8:19:19 PM	4309	4.29	33650	250.00000	249.187337	100
JU08	Standard	3/28/2018 8:30:06 PM	7263	4.28	30280	500.00000	517.884349	104
JU09	Standard	3/28/2018 8:40:53 PM	15740	4.29	32890	1000.00000	1091.324172	109
JU10	Standard	3/28/2018 8:51:40 PM	35900	4.29	30100	2500.00000	2807.397684	112
JU11	Standard	3/28/2018 9:02:26 PM	149500	4.28	32780	10000.00000	10900.936811	109
JU12	Standard	3/28/2018 9:13:13 PM	399000	4.28	51080	20000.00000	18710.511703	94
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1947	4.28	33830	N/A	79.731860	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	13180	4.28	28620	1000.00000	1047.790536	105
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	33880	4.27	26510	N/A	3012.745963	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	550	4.26	15240	N/A	28.157209	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	84480	4.26	15740	N/A	12839.938016	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	101100	4.27	19790	N/A	12220.146739	N/A

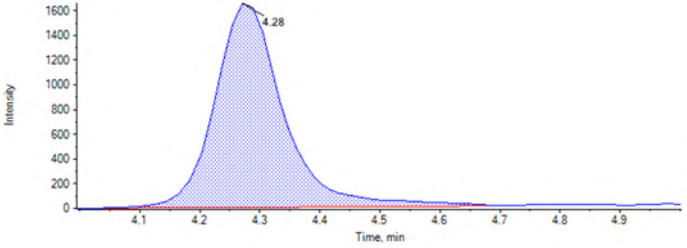
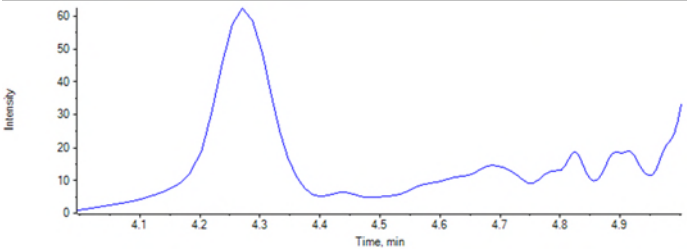
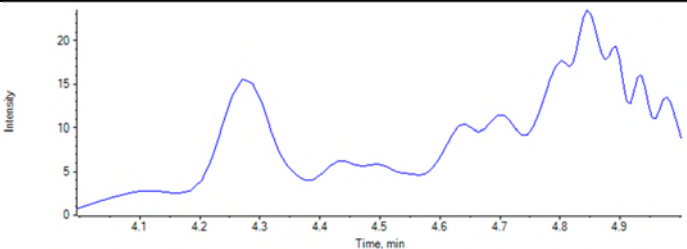
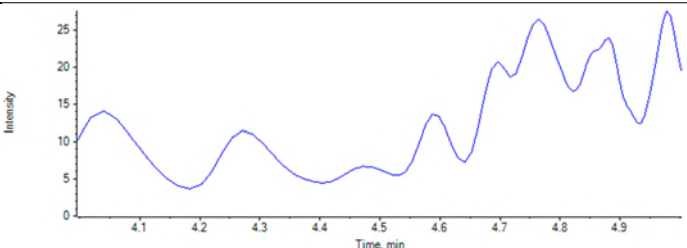
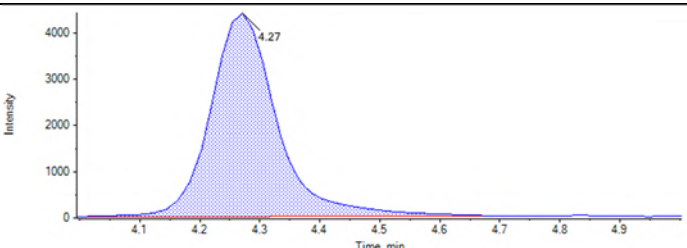
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	497	4.28	22930	N/A	< 0	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	165	4.28	16090	N/A	< 0	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	18340	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	19440	4.26	39060	1000.00000	1137.469703	114
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	16530	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	18970	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	36010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	45530	4.26	38240	2500.00000	2802.326311	112

**Chromatograms:**

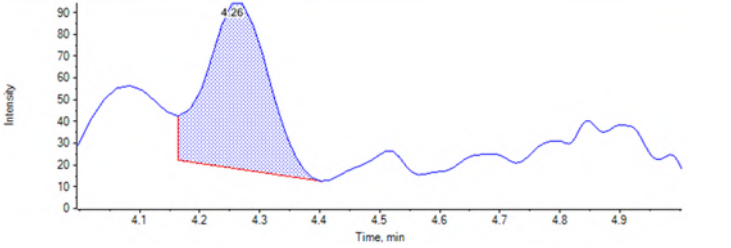
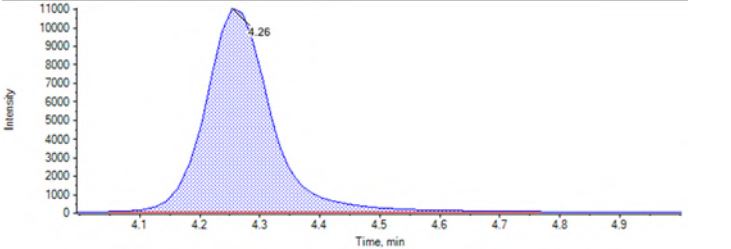
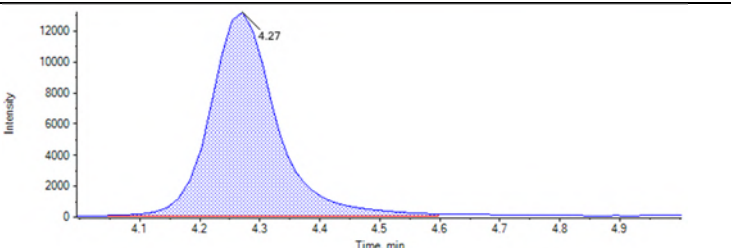
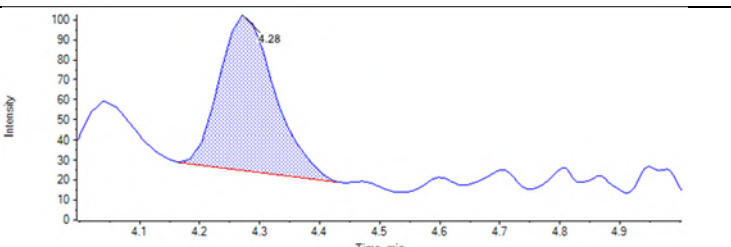
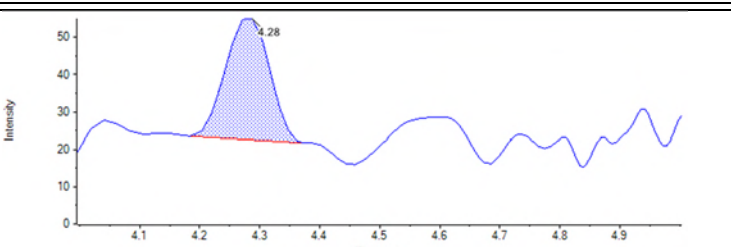


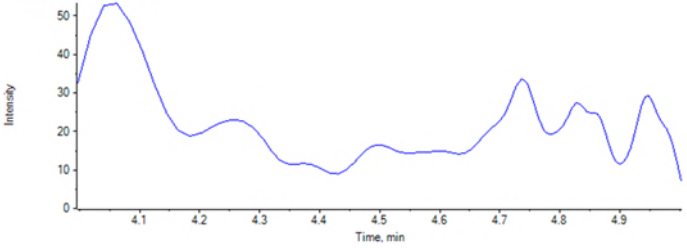
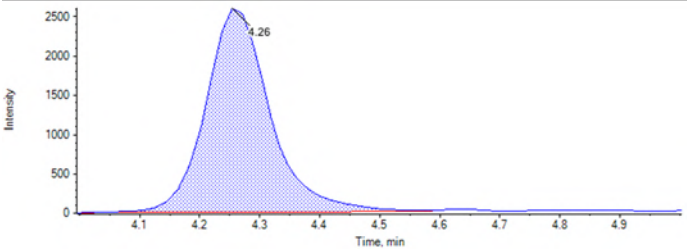
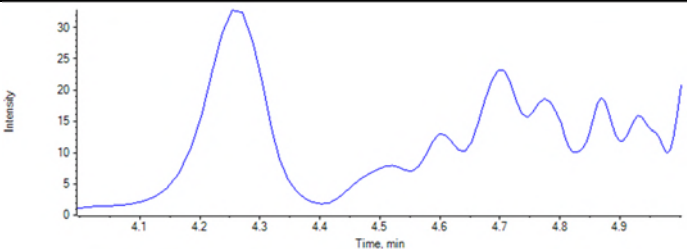
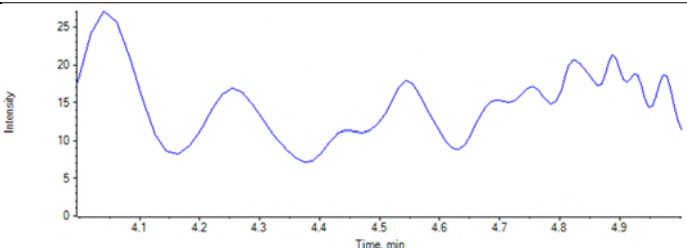
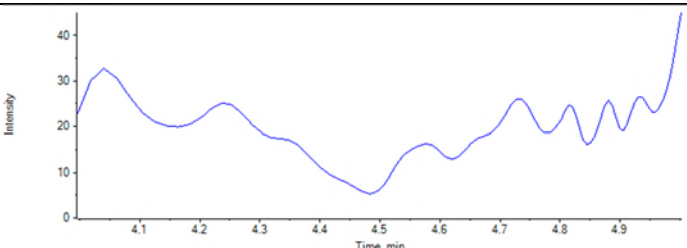
<p>JU04</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 3.718e2</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.30 (4.30) min</p> <p>Calculated Conc: 5.879418 ng/L</p> <p>Area: 7.932e2</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: 72.757944 ng/L</p> <p>Area: 1.681e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: 249.187337 ng/L</p> <p>Area: 4.309e3</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 4.28 (4.30) min</p> <p>Calculated Conc: 517.884349 ng/L</p> <p>Area: 7.263e3</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: 1091.324172 ng/L</p> <p>Area: 1.574e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 4.29 (4.30) min</p> <p>Calculated Conc: 2807.397684 ng/L</p> <p>Area: 3.590e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 4.28 (4.30) min</p> <p>Calculated Conc: 10900.936811 ng/L</p> <p>Area: 1.495e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 4.28 (4.30) min</p> <p>Calculated Conc: 18710.511703 ng/L</p> <p>Area: 3.990e5</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 4.28 (4.30) min</p> <p>Calculated Conc: 79.731860 ng/L</p> <p>Area: 1.947e3</p> <p>Modified: (False)</p>	

<p>JU13 ICC</p> <p>RT (Exp. RT): 4.28 (4.30) min</p> <p>Calculated Conc: 1047.790536 ng/L</p> <p>Area: 1.318e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 3012.745963 ng/L</p> <p>Area: 3.388e4</p> <p>Modified: (False)</p>	



<p>J5387-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 28.157209 ng/L</p> <p>Area: 5.498e2</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 12839.938016 ng/L</p> <p>Area: 8.448e4</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 12220.146739 ng/L</p> <p>Area: 1.011e5</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 4.28 (4.30) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 4.969e2</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 4.28 (4.30) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.653e2</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 1137.469703 ng/L</p> <p>Area: 1.944e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 2802.326311 ng/L</p> <p>Area: 4.553e4</p> <p>Modified: (False)</p>	

Analyte: NMeFOSAA\_1 (570.0 / 419.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	1612	3.36	6598	25.00000	< 0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	2273	3.36	5054	50.00000	1.957425	4
JU06	Standard	3/28/2018 8:08:31 PM	5226	3.36	5105	100.00000	74.272755	74
JU07	Standard	3/28/2018 8:19:19 PM	13740	3.35	5277	250.00000	273.477984	109
JU08	Standard	3/28/2018 8:30:06 PM	23120	3.36	6102	500.00000	422.761715	85
JU09	Standard	3/28/2018 8:40:53 PM	49830	3.35	5086	1000.00000	1180.017983	118
JU10	Standard	3/28/2018 8:51:40 PM	107300	3.35	4437	2500.00000	2992.907145	120
JU11	Standard	3/28/2018 9:02:26 PM	451800	3.35	6017	10000.00000	9406.562418	94
JU12	Standard	3/28/2018 9:13:13 PM	1174000	3.35	9965	20000.00000	14786.550156	74
JP83 IB	Unknown	3/28/2018 9:23:58 PM	8714	3.35	6889	N/A	104.691339	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	45240	3.35	5405	1000.00000	999.988766	100
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	1633	3.34	6631	N/A	< 0	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	303	3.35	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	5936	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	145000	3.35	6875	N/A	2603.085222	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	1558	3.34	4513	N/A	< 0	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	262600	3.33	3840	N/A	8563.447764	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	279500	3.34	4110	N/A	8514.515982	N/A

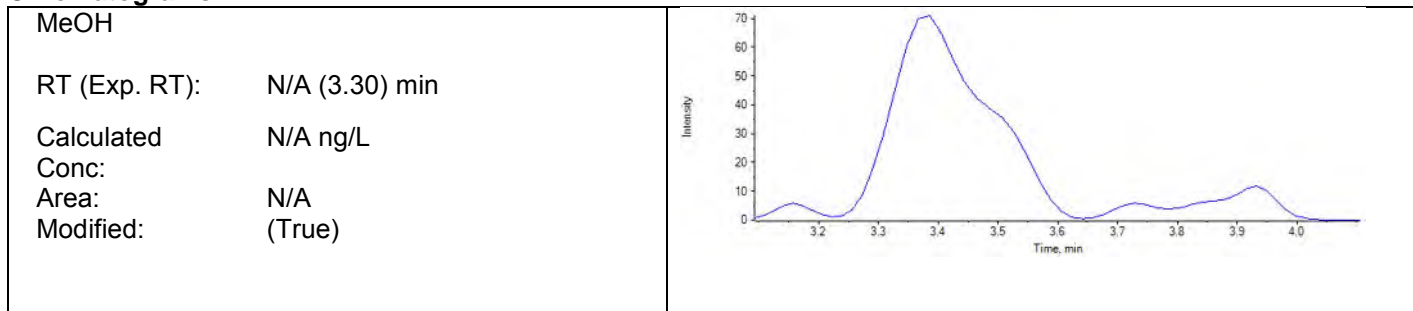
Not being used in this calibration.  
DMS 4/4/2018

Not being used in this calibration.  
DMS 4/4/2018

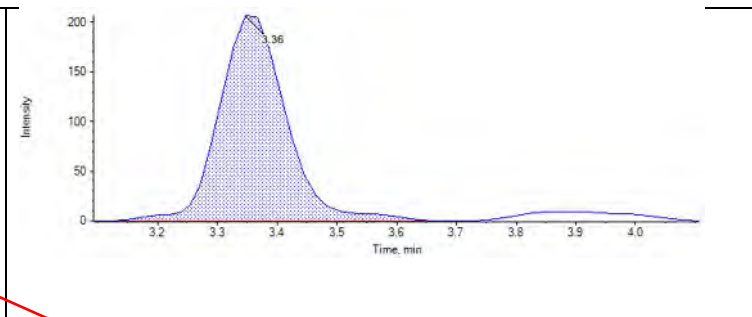
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	3481	3.34	4951	N/A	33.876843	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	1470	3.35	4500	N/A	< 0	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	801	3.35	6603	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	56400	3.34	5617	1000.00000	1210.433873	121
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	3754	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	4325	N/A	N/A	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>6005</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	4334	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	2847	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	5552	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	138900	3.33	5733	2500.00000	2997.125293	120

Dilution not needed. DMS 4/4/2018

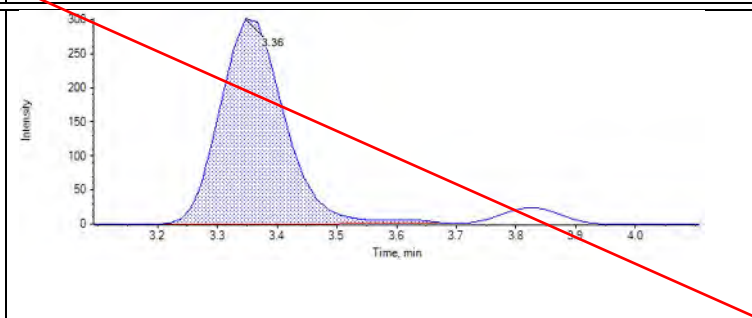
**Chromatograms:**



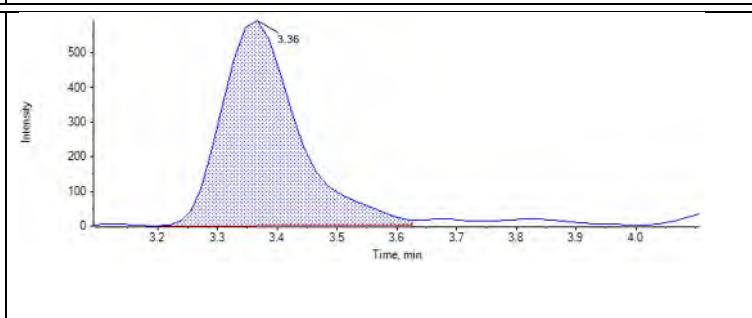
JU04  
RT (Exp. RT): 3.36 (3.30) min  
Calculated Conc: < 0 ng/L  
Area: 1.612e3  
Modified: (False)



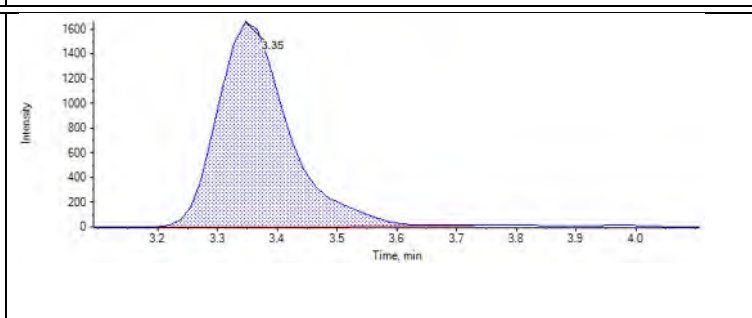
JU05  
RT (Exp. RT): 3.36 (3.30) min  
Calculated Conc: 1.957425 ng/L  
Area: 2.273e3  
Modified: (False)



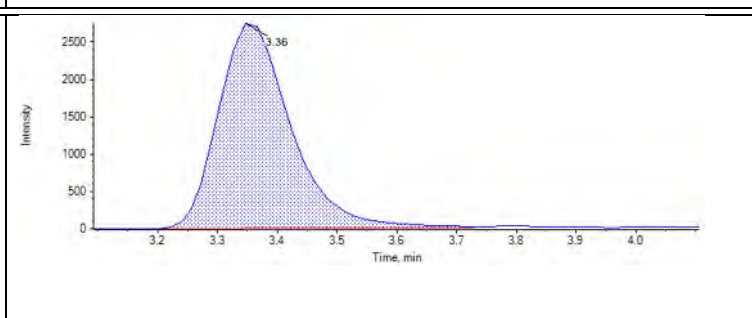
JU06  
RT (Exp. RT): 3.36 (3.30) min  
Calculated Conc: 74.272755 ng/L  
Area: 5.226e3  
Modified: (False)



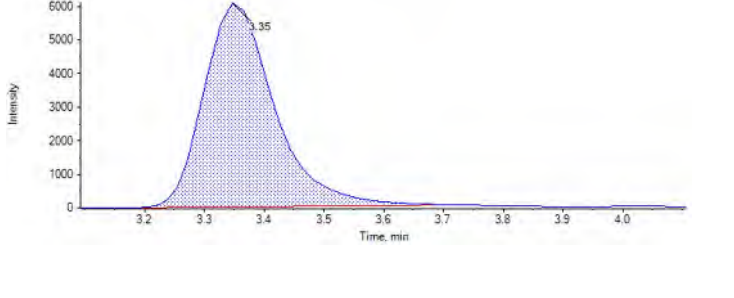
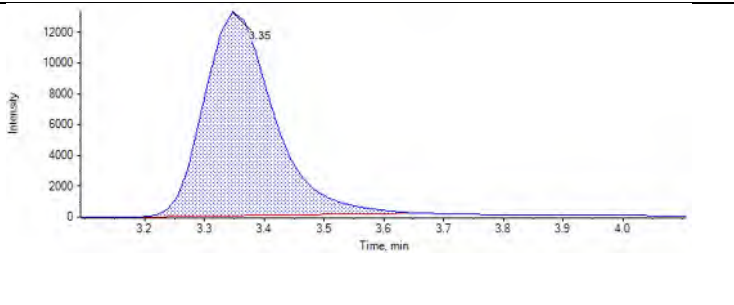
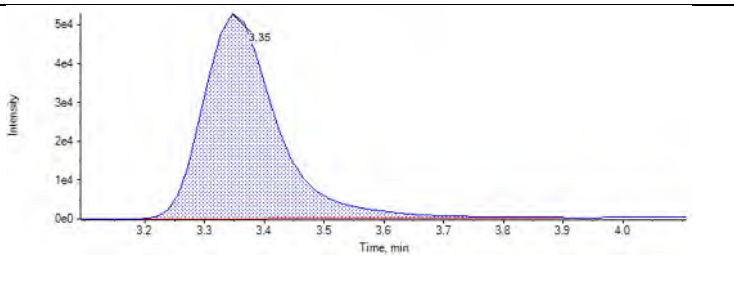
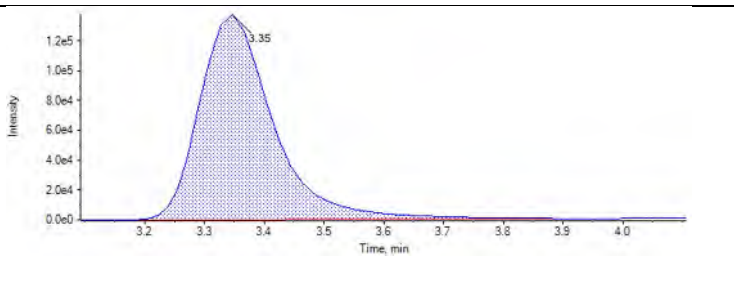
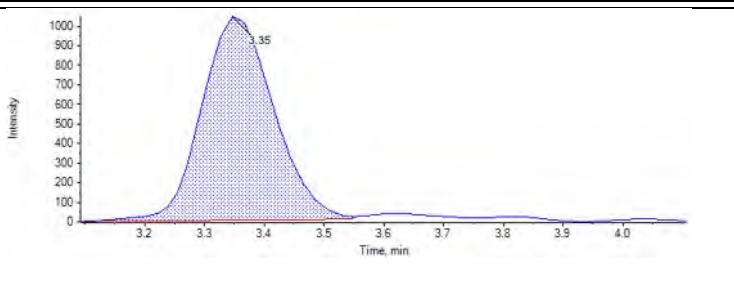
JU07  
RT (Exp. RT): 3.35 (3.30) min  
Calculated Conc: 273.477984 ng/L  
Area: 1.374e4  
Modified: (False)



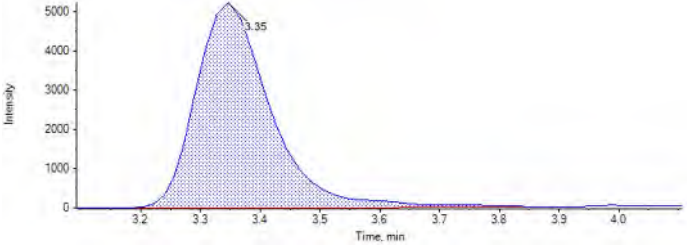
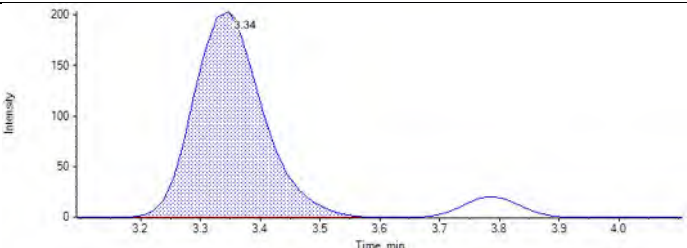
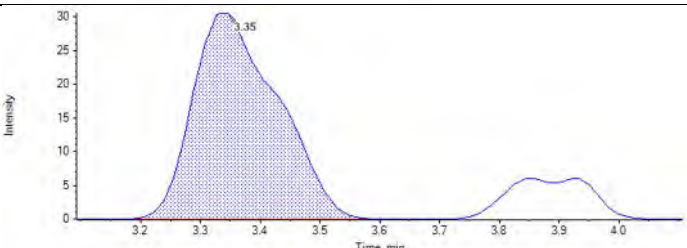
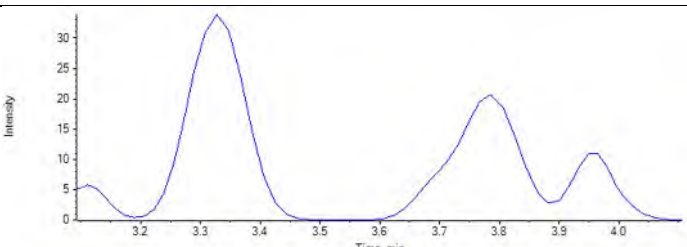
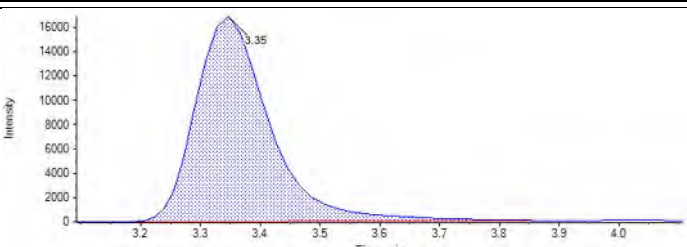
JU08  
RT (Exp. RT): 3.36 (3.30) min  
Calculated Conc: 422.761715 ng/L  
Area: 2.312e4  
Modified: (False)

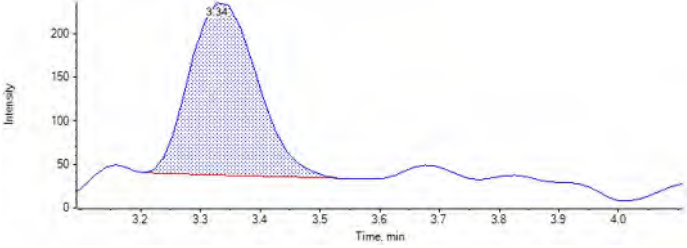
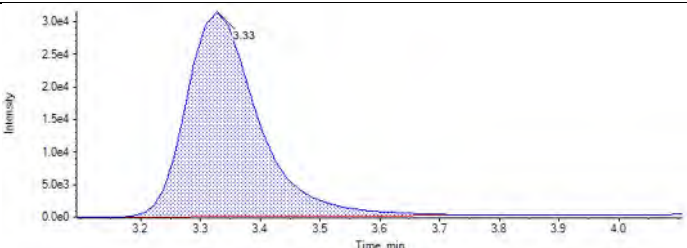
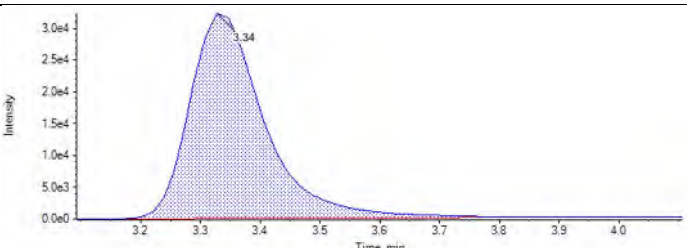
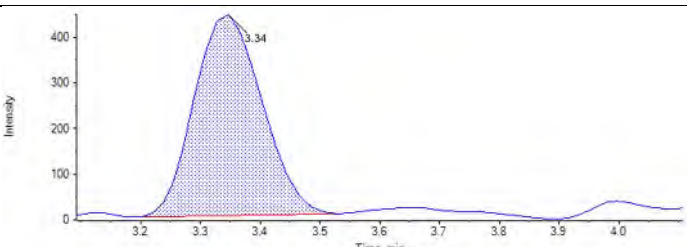
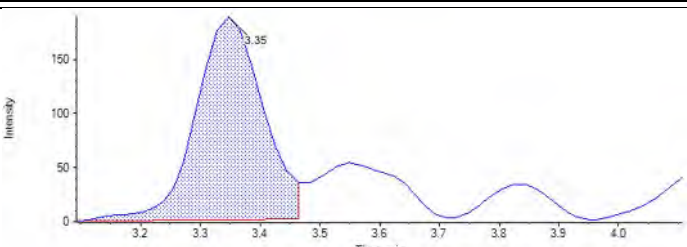




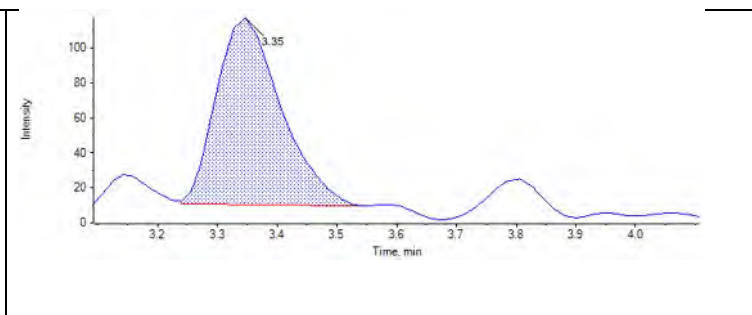
<p>JU09</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: 1180.017983 ng/L</p> <p>Area: 4.983e4</p> <p>Modified: (True)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: 2992.907145 ng/L</p> <p>Area: 1.073e5</p> <p>Modified: (True)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: 9406.562418 ng/L</p> <p>Area: 4.518e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: 14786.550156 ng/L</p> <p>Area: 1.174e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: 104.691339 ng/L</p> <p>Area: 8.714e3</p> <p>Modified: (False)</p>	



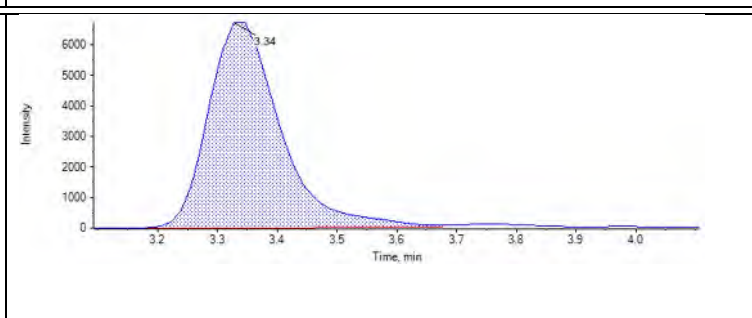
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: 999.988766 ng/L</p> <p>Area: 4.524e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.633e3</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: 3.025e2</p> <p>Modified: (False)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: 2603.085222 ng/L</p> <p>Area: 1.450e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.558e3</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 8563.447764 ng/L</p> <p>Area: 2.626e5</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 8514.515982 ng/L</p> <p>Area: 2.795e5</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 33.876843 ng/L</p> <p>Area: 3.481e3</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.470e3</p> <p>Modified: (False)</p>	

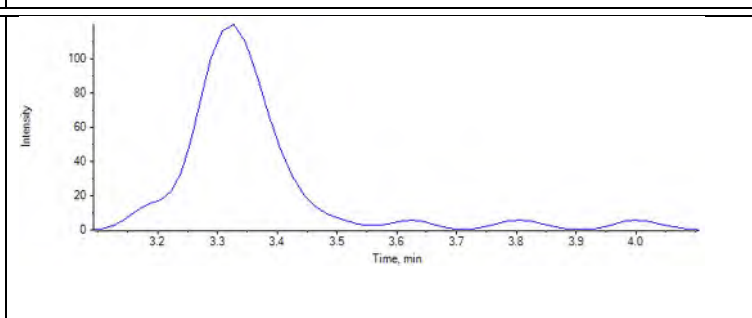
J5390-FS(3)	
RT (Exp. RT):	3.35 (3.30) min
Calculated Conc:	< 0 ng/L
Area:	8.012e2
Modified:	(False)



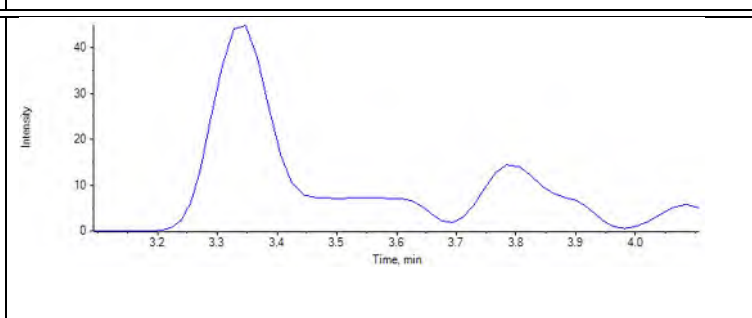
JU09 CCV	
RT (Exp. RT):	3.34 (3.30) min
Calculated Conc:	1210.433873 ng/L
Area:	5.640e4
Modified:	(False)



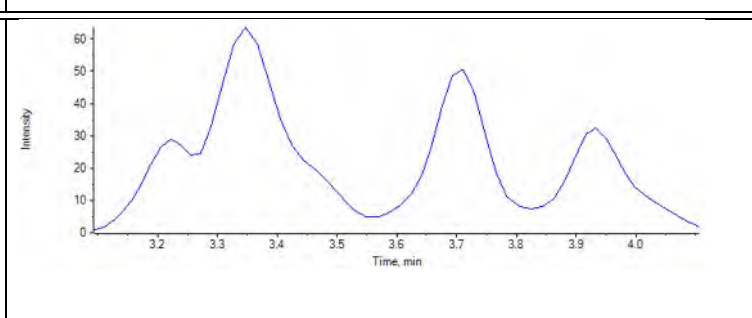
MeOH	
RT (Exp. RT):	N/A (3.30) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)

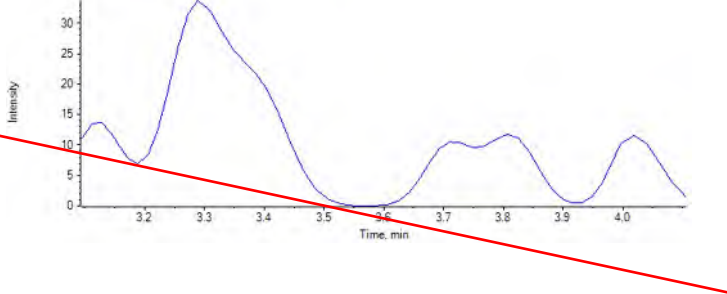
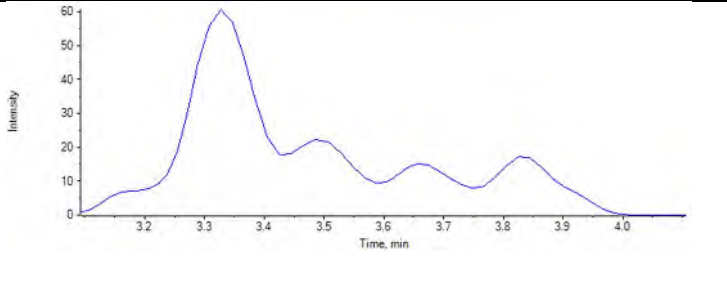
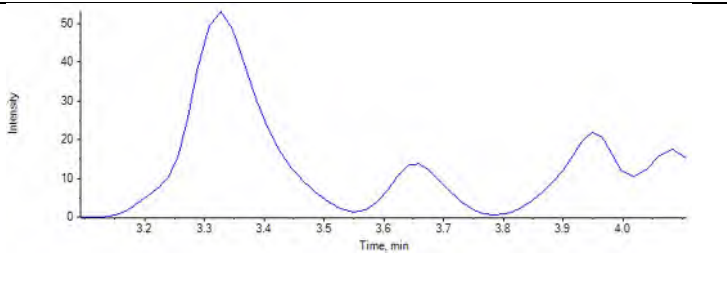
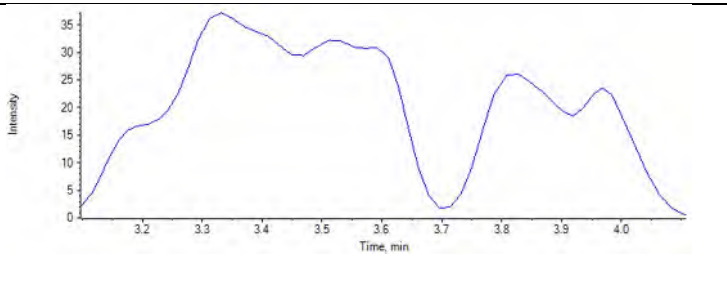
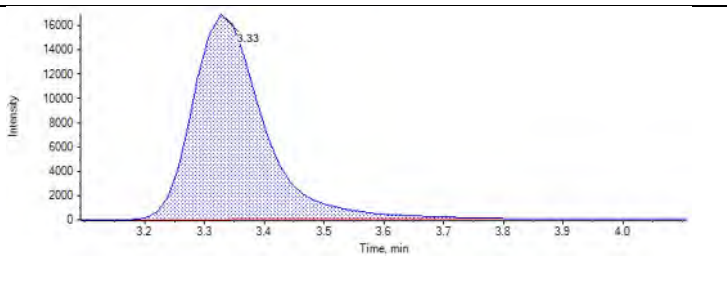


J5392-FS(3)	
RT (Exp. RT):	N/A (3.30) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



J5394-FS(4)	
RT (Exp. RT):	N/A (3.30) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 2997.125293 ng/L</p> <p>Area: 1.389e5</p> <p>Modified: (False)</p>	

**Analyte:** NMeFOSAA\_2 (570.0 / 512.0)

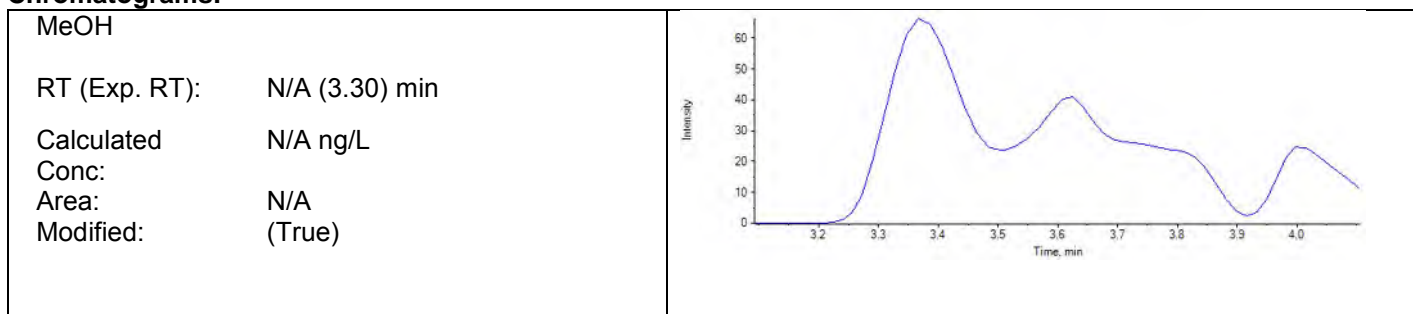
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	N/A	N/A	6598	25.00000	N/A	N/A
JU05	Standard	3/28/2018 7:57:43 PM	1978	3.35	5054	50.00000	38.736195	77
JU06	Standard	3/28/2018 8:08:31 PM	2980	3.36	5105	100.00000	80.173295	80
JU07	Standard	3/28/2018 8:19:19 PM	8222	3.36	5277	250.00000	290.165590	116
JU08	Standard	3/28/2018 8:30:06 PM	13960	3.35	6102	500.00000	447.227836	89
JU09	Standard	3/28/2018 8:40:53 PM	29590	3.36	5086	1000.00000	1208.293784	121
JU10	Standard	3/28/2018 8:51:40 PM	64540	3.35	4437	2500.00000	3088.636692	124
JU11	Standard	3/28/2018 9:02:26 PM	259400	3.35	6017	10000.00000	9246.766608	92
JU12	Standard	3/28/2018 9:13:13 PM	650800	3.35	9965	20000.00000	14028.337361	70
JP83 IB	Unknown	3/28/2018 9:23:58 PM	5774	3.35	6889	N/A	135.036290	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	26740	3.35	5405	1000.00000	1020.365824	102
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	6631	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	5936	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	84540	3.35	6875	N/A	2604.431786	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	4513	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	150900	3.33	3840	N/A	8421.243556	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	171500	3.34	4110	N/A	8947.829961	N/A

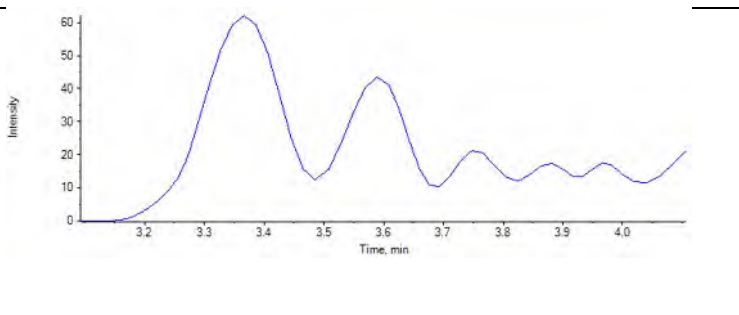
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	4951	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	4500	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	6603	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	33620	3.34	5617	1000.00000	1244.154169	124
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	3754	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	4325	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	6005	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	4334	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	2847	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	5552	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	73770	3.33	5733	2500.00000	2727.242561	109

**Chromatograms:**

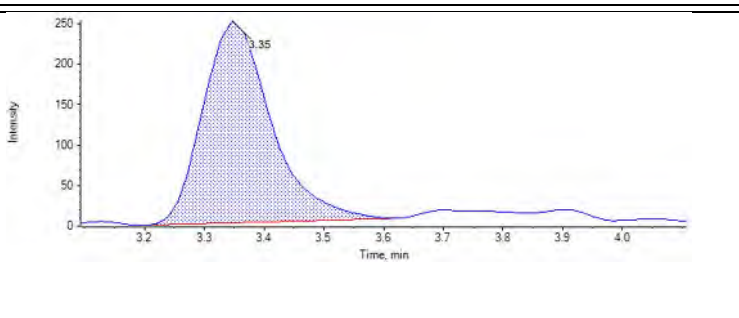




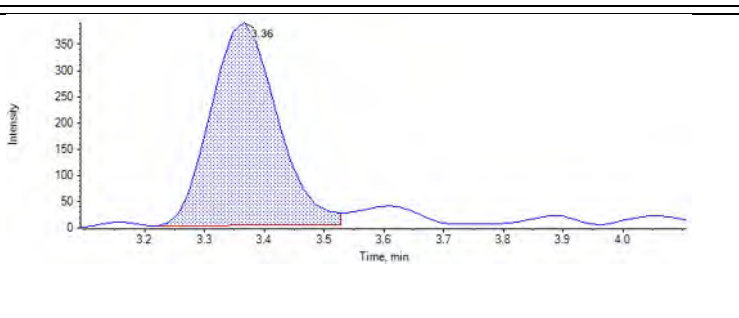
JU04	
RT (Exp. RT):	N/A (3.30) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



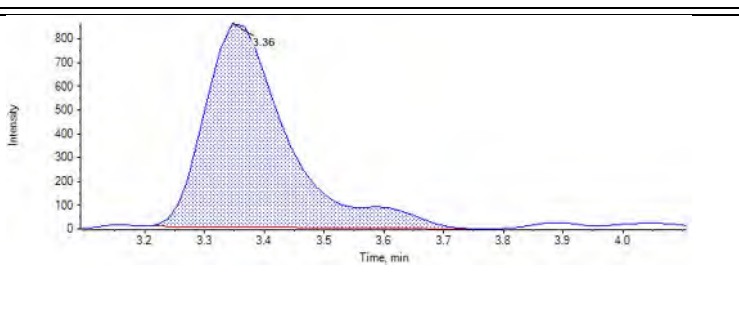
JU05	
RT (Exp. RT):	3.35 (3.30) min
Calculated Conc:	38.736195 ng/L
Area:	1.978e3
Modified:	(False)



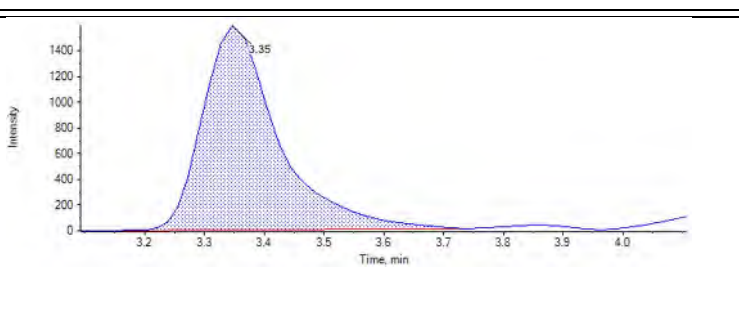
JU06	
RT (Exp. RT):	3.36 (3.30) min
Calculated Conc:	80.173295 ng/L
Area:	2.980e3
Modified:	(False)



JU07	
RT (Exp. RT):	3.36 (3.30) min
Calculated Conc:	290.165590 ng/L
Area:	8.222e3
Modified:	(False)

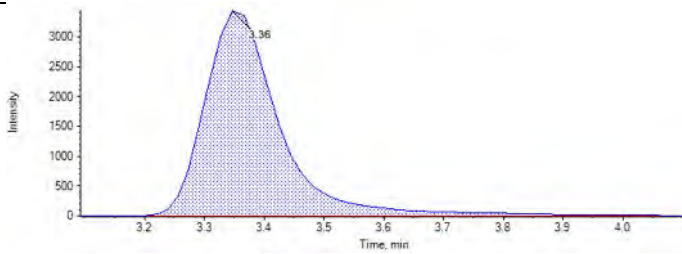


JU08	
RT (Exp. RT):	3.35 (3.30) min
Calculated Conc:	447.227836 ng/L
Area:	1.396e4
Modified:	(False)

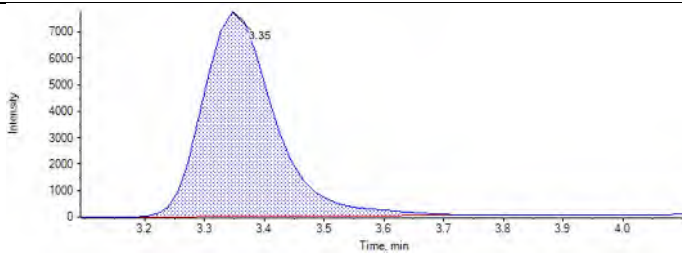




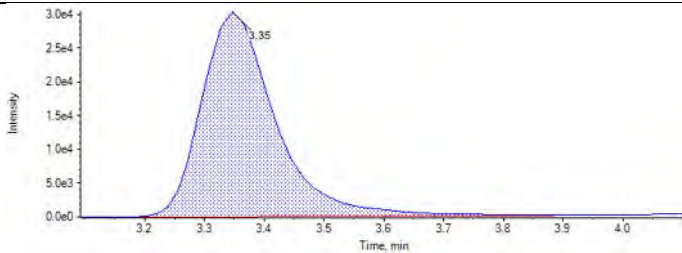
JU09  
 RT (Exp. RT): 3.36 (3.30) min  
 Calculated Conc: 1208.293784 ng/L  
 Area: 2.959e4  
 Modified: (False)



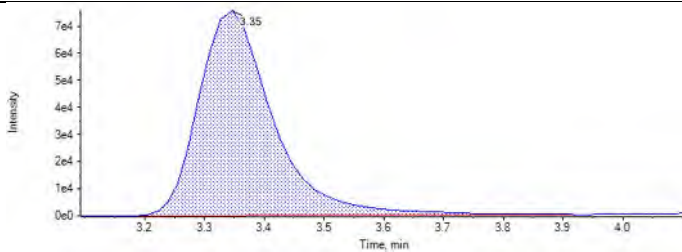
JU10  
 RT (Exp. RT): 3.35 (3.30) min  
 Calculated Conc: 3088.636692 ng/L  
 Area: 6.454e4  
 Modified: (False)



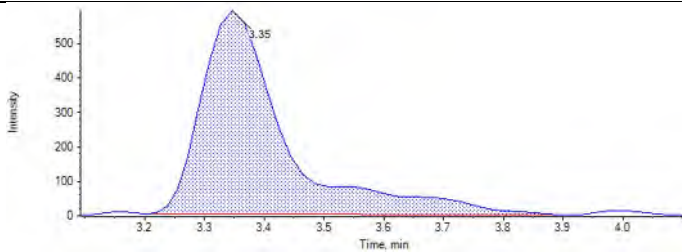
JU11  
 RT (Exp. RT): 3.35 (3.30) min  
 Calculated Conc: 9246.766608 ng/L  
 Area: 2.594e5  
 Modified: (False)

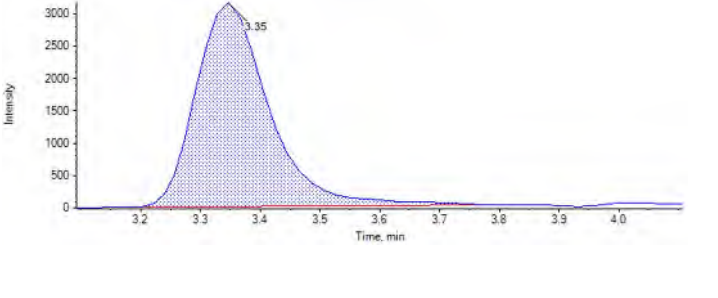
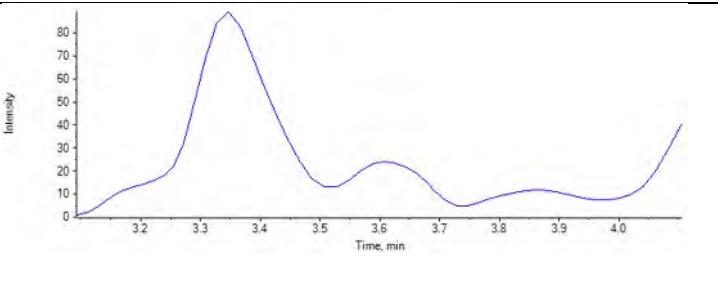
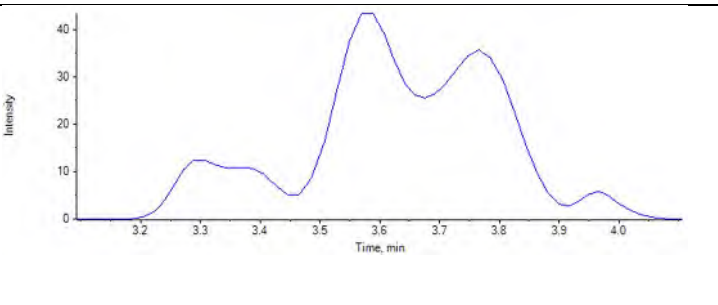
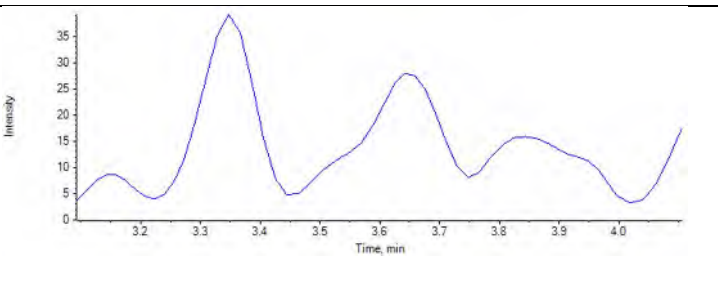
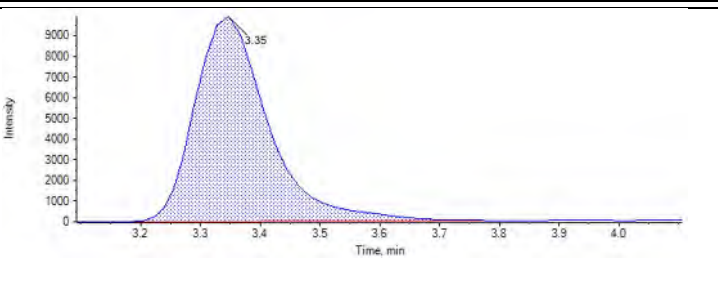


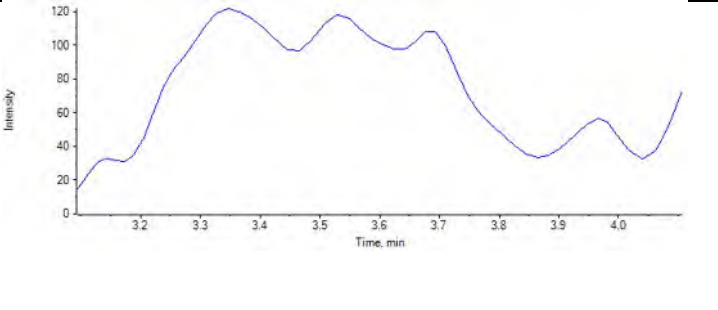
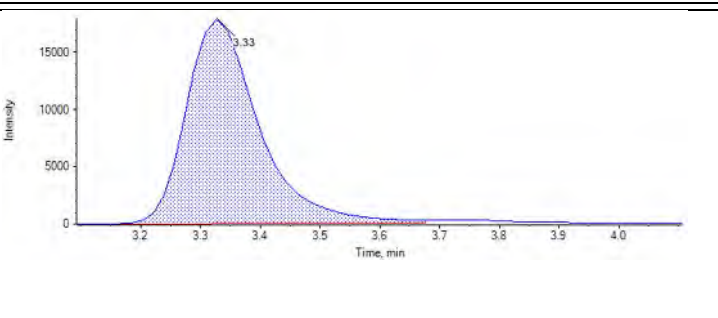
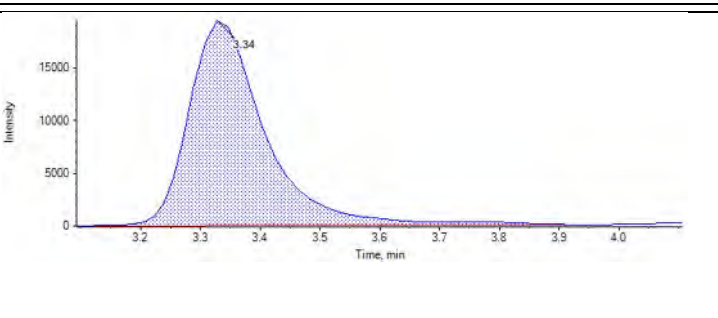
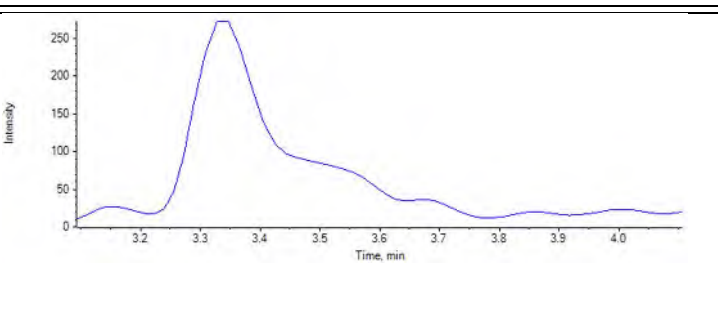
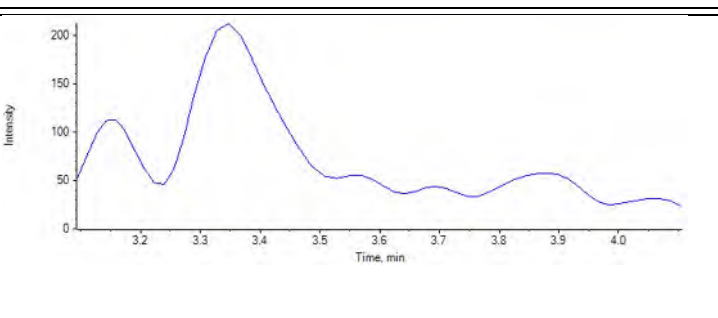
JU12  
 RT (Exp. RT): 3.35 (3.30) min  
 Calculated Conc: 14028.337361 ng/L  
 Area: 6.508e5  
 Modified: (False)



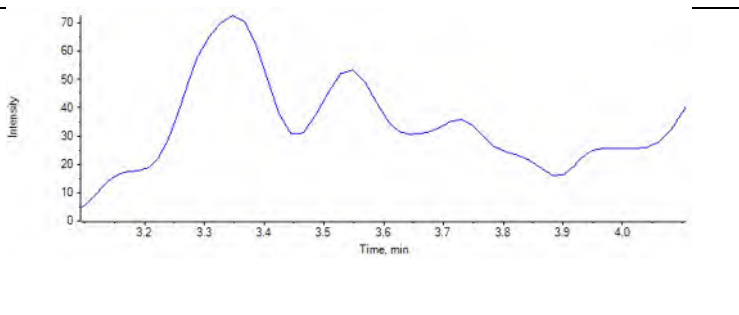
JP83 IB  
 RT (Exp. RT): 3.35 (3.30) min  
 Calculated Conc: 135.036290 ng/L  
 Area: 5.774e3  
 Modified: (False)



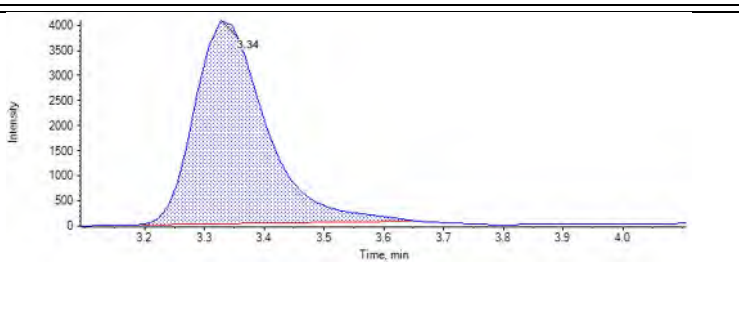
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: 1020.365824 ng/L</p> <p>Area: 2.674e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: 2604.431786 ng/L</p> <p>Area: 8.454e4</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 3.2 to 4.0 minutes. The y-axis ranges from 0 to 120. A prominent peak is observed at 3.33 minutes, reaching an intensity of approximately 120. There are several smaller peaks and fluctuations throughout the run.</p>
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 8421.243556 ng/L</p> <p>Area: 1.509e5</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 3.2 to 4.0 minutes. The y-axis ranges from 0 to 15000. A single, sharp peak is observed at 3.33 minutes, reaching an intensity of approximately 15000. The baseline is very low and stable.</p>
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 8947.829961 ng/L</p> <p>Area: 1.715e5</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 3.2 to 4.0 minutes. The y-axis ranges from 0 to 15000. A single, sharp peak is observed at 3.34 minutes, reaching an intensity of approximately 15000. The baseline is very low and stable.</p>
<p>J5388-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 3.2 to 4.0 minutes. The y-axis ranges from 0 to 250. A peak is observed at 3.33 minutes, reaching an intensity of approximately 250. The baseline shows some noise and smaller peaks.</p>
<p>J5389-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 3.2 to 4.0 minutes. The y-axis ranges from 0 to 200. A peak is observed at 3.33 minutes, reaching an intensity of approximately 200. The baseline shows some noise and smaller peaks.</p>

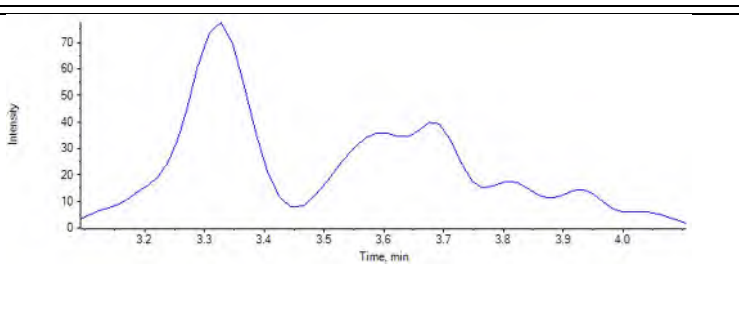
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 RT (Exp. RT): N/A (3.30) min  
 Calculated Conc: N/A ng/L  
 Area: N/A  
 Modified: (True)



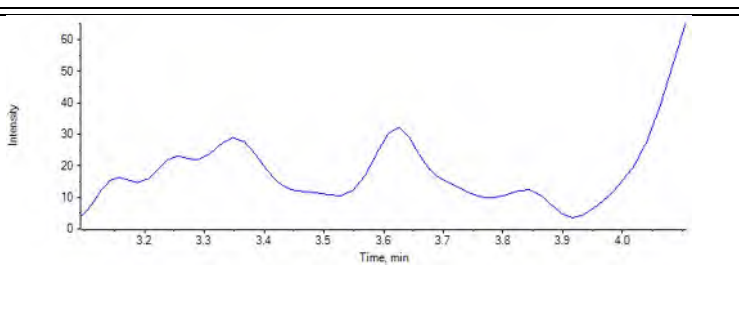
JU09 CCV  
 RT (Exp. RT): 3.34 (3.30) min  
 Calculated Conc: 1244.154169 ng/L  
 Area: 3.362e4  
 Modified: (True)



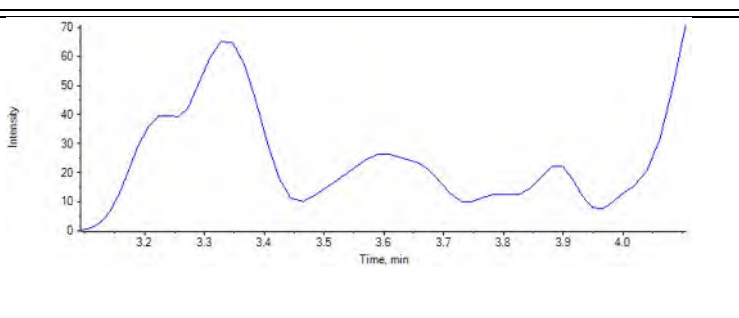
MeOH  
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 Calculated Conc: N/A ng/L  
 Area: N/A  
 Modified: (True)

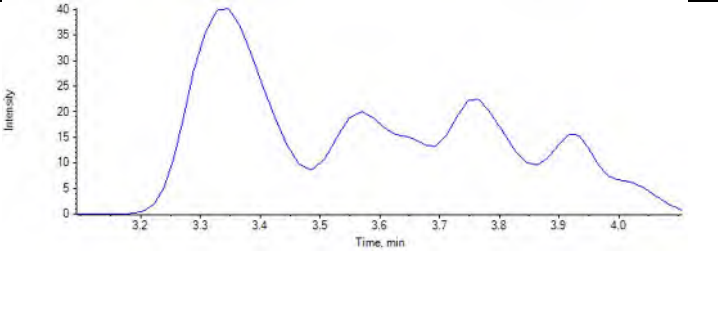
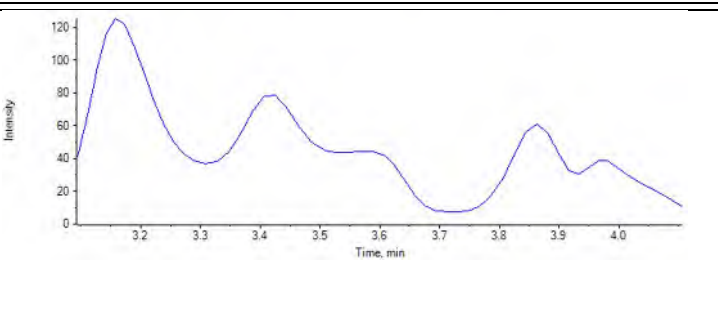
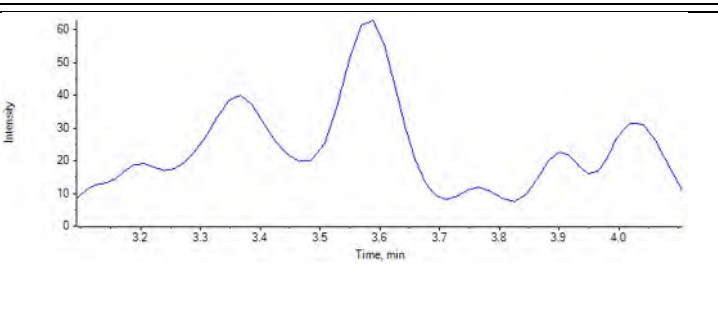
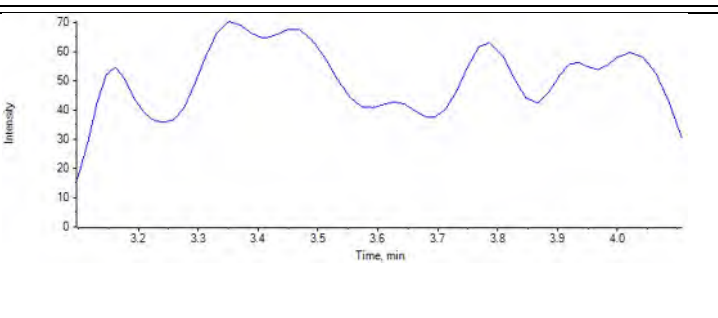
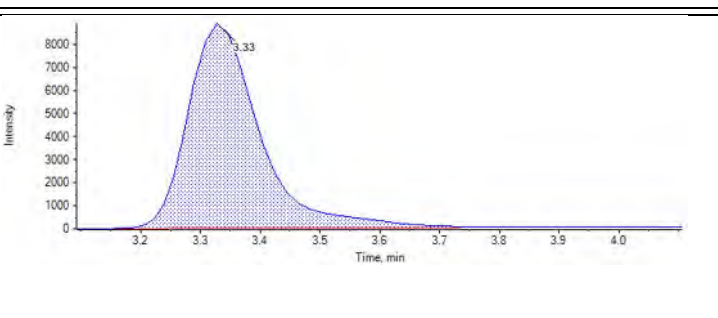


J5392-FS(3)  
 RT (Exp. RT): N/A (3.30) min  
 Calculated Conc: N/A ng/L  
 Area: N/A  
 Modified: (True)



J5394-FS(4)  
 RT (Exp. RT): N/A (3.30) min  
 Calculated Conc: N/A ng/L  
 Area: N/A  
 Modified: (True)



<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min) for J5394-FS-D(5). The x-axis ranges from 3.2 to 4.0 minutes, and the y-axis ranges from 0 to 40. The plot shows several peaks, with the highest peak at approximately 3.33 minutes.</p>
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min) for J5395-FS(3). The x-axis ranges from 3.2 to 4.0 minutes, and the y-axis ranges from 0 to 120. The plot shows several peaks, with the highest peak at approximately 3.33 minutes.</p>
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min) for J5396-FS(3). The x-axis ranges from 3.2 to 4.0 minutes, and the y-axis ranges from 0 to 60. The plot shows several peaks, with the highest peak at approximately 3.33 minutes.</p>
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min) for J5397-FS(3). The x-axis ranges from 3.2 to 4.0 minutes, and the y-axis ranges from 0 to 70. The plot shows several peaks, with the highest peak at approximately 3.33 minutes.</p>
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 2727.242561 ng/L</p> <p>Area: 7.377e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity versus time (min) for JU10 CCV. The x-axis ranges from 3.2 to 4.0 minutes, and the y-axis ranges from 0 to 8000. A single sharp peak is observed at 3.33 minutes, reaching an intensity of approximately 8000.</p>

**Analyte:** NEtFOSAA\_1 (584.0 / 419.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	2033	3.52	7742	25.00000	19.094443	76
JU05	Standard	3/28/2018 7:57:43 PM	3077	3.53	4915	50.00000	64.289932	129
JU06	Standard	3/28/2018 8:08:31 PM	5092	3.52	6548	100.00000	83.146585	83
JU07	Standard	3/28/2018 8:19:19 PM	13250	3.52	5672	250.00000	276.946160	111
JU08	Standard	3/28/2018 8:30:06 PM	20790	3.52	4760	500.00000	529.488560	106
JU09	Standard	3/28/2018 8:40:53 PM	43470	3.52	5060	1000.00000	1054.448961	105
JU10	Standard	3/28/2018 8:51:40 PM	105300	3.52	5789	2500.00000	2247.617650	90
JU11	Standard	3/28/2018 9:02:26 PM	433000	3.52	5472	10000.00000	9824.032079	98
JU12	Standard	3/28/2018 9:13:13 PM	1087000	3.51	6645	20000.00000	20325.935630	102
JP83 IB	Unknown	3/28/2018 9:23:58 PM	9263	3.52	6205	N/A	172.070871	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	44000	3.51	5121	1000.00000	1054.719718	105
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	5908	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	7212	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	148200	3.51	7009	N/A	2616.238604	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	2154	3.50	5132	N/A	38.641530	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	289300	3.50	3147	N/A	11417.274254	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	321700	3.51	3603	N/A	11088.684894	N/A



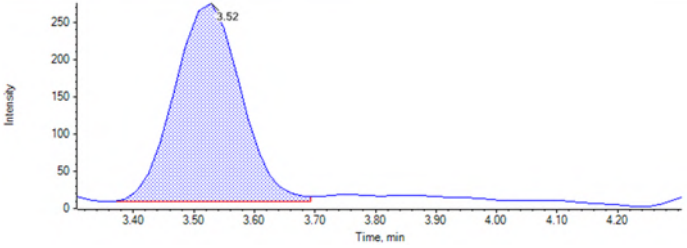
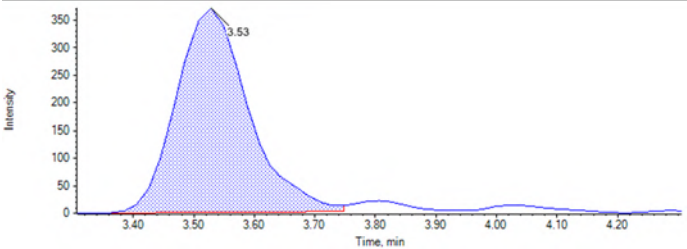
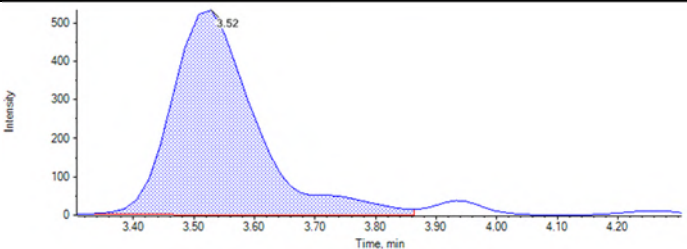
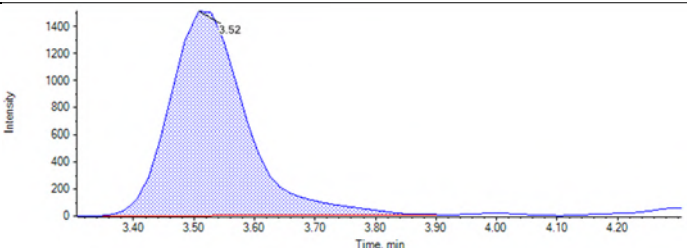
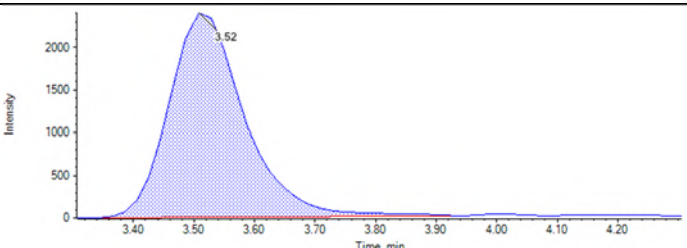
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	3531	3.50	4644	N/A	81.002110	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	2023	3.50	5771	N/A	30.049990	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	760	3.50	7053	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	55830	3.50	6352	1000.00000	1079.251456	108
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	601	3.51	3360	N/A	8.684178	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	964	3.49	3574	N/A	19.981571	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>4929</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	755	3.51	3181	N/A	15.977527	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	437	3.49	3139	N/A	3.770183	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	6718	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	125700	3.50	6344	2500.00000	2449.373090	98

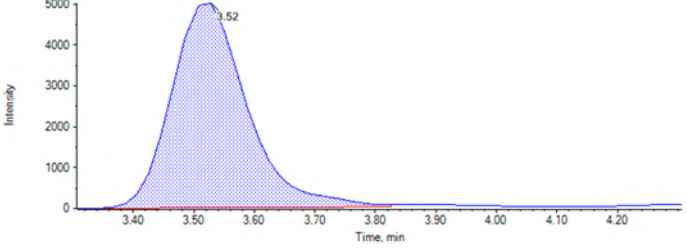
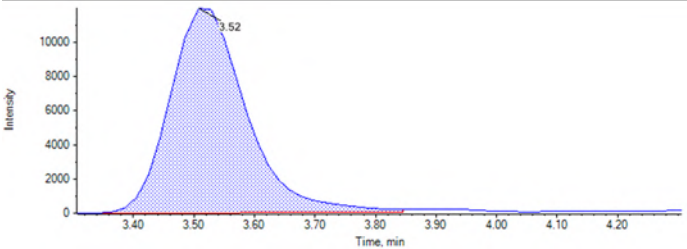
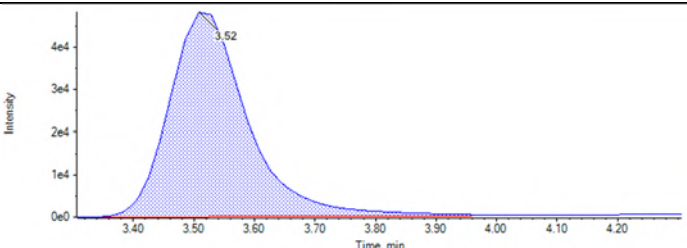
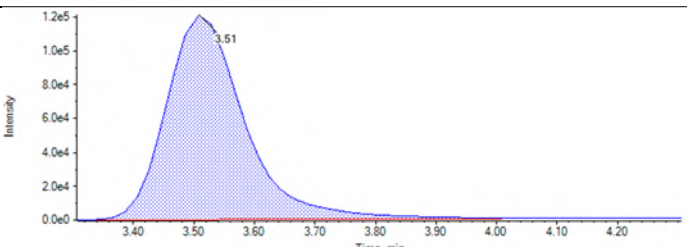
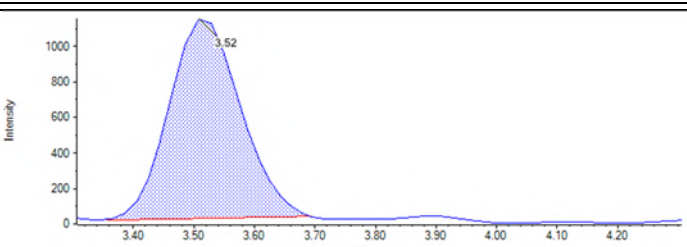
Dilution not needed. DMS 4/4/2018

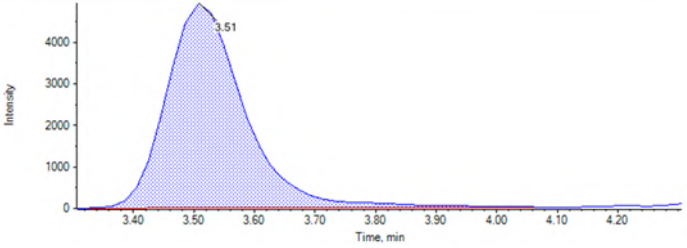
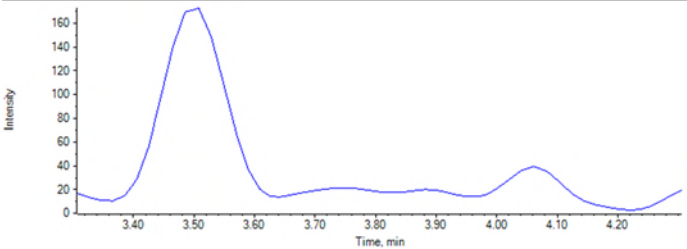
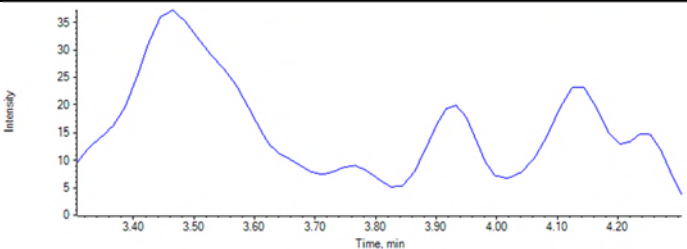
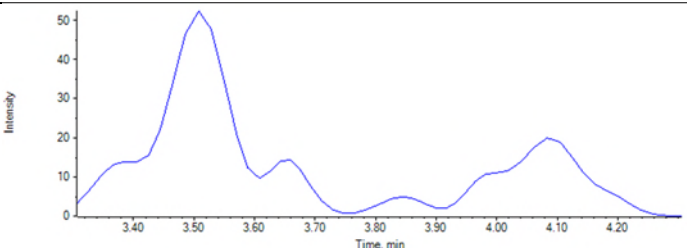
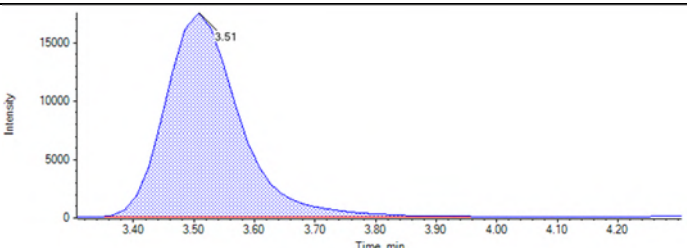
**Chromatograms:**

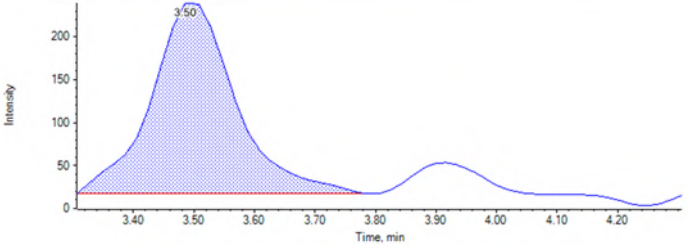
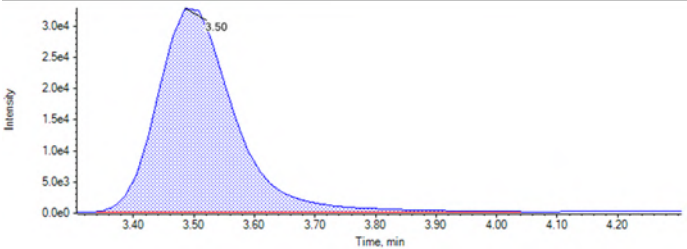
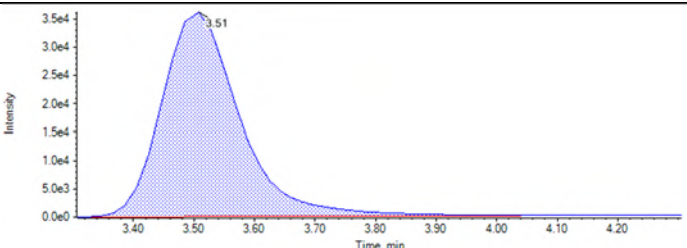
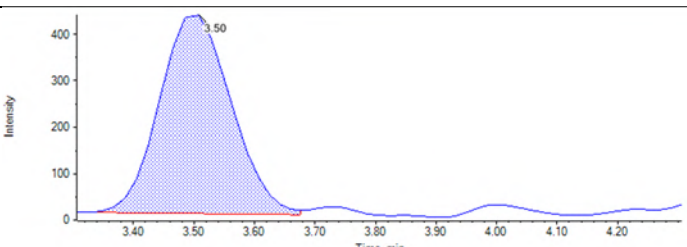
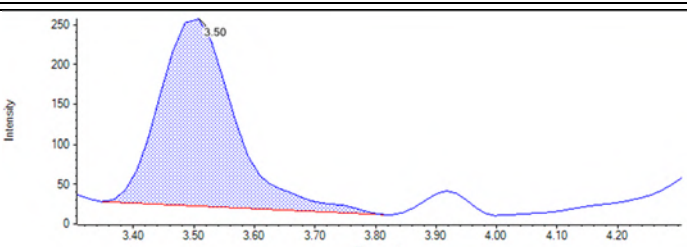
MeOH  RT (Exp. RT): N/A (3.40) min  Calculated Conc: N/A ng/L  Area: N/A  Modified: (True)	
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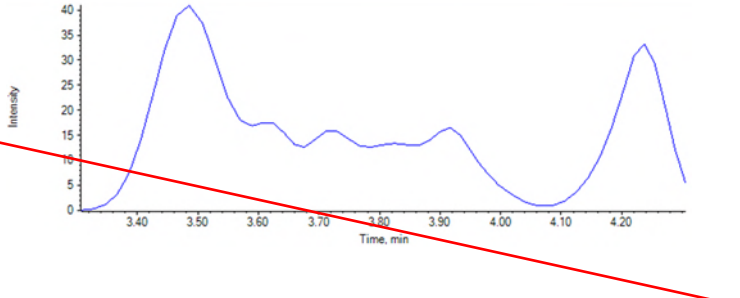
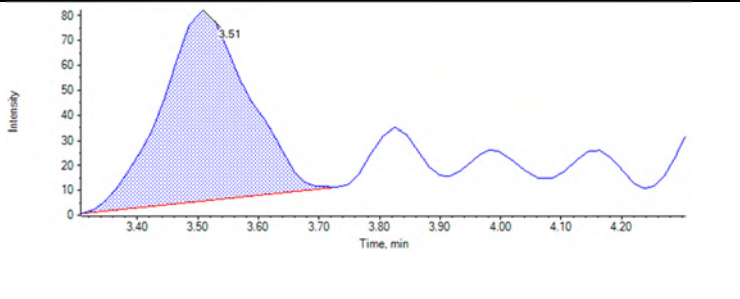
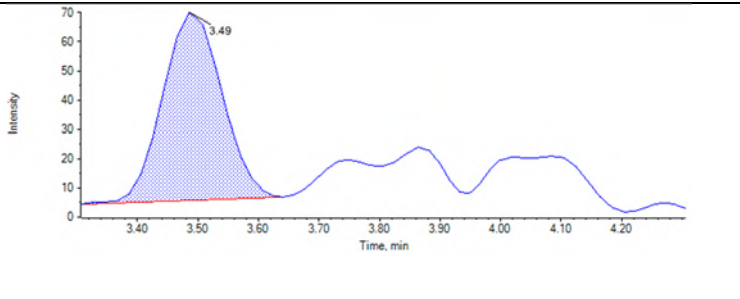
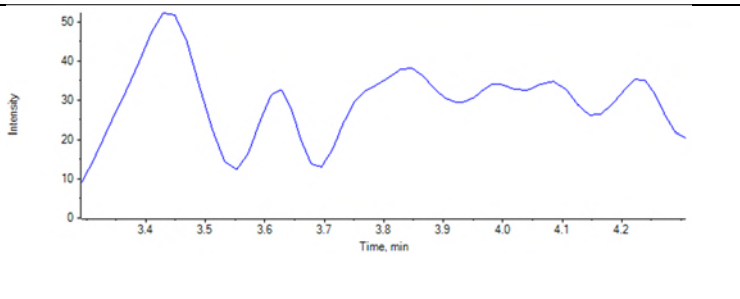
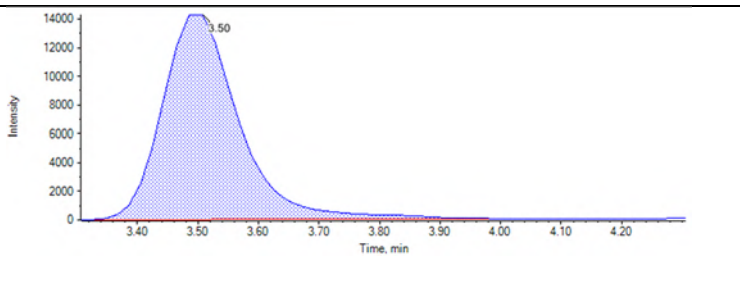
<p>JU04</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 19.094443 ng/L</p> <p>Area: 2.033e3</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.53 (3.40) min</p> <p>Calculated Conc: 64.289932 ng/L</p> <p>Area: 3.077e3</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 83.146585 ng/L</p> <p>Area: 5.092e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 276.946160 ng/L</p> <p>Area: 1.325e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 529.488560 ng/L</p> <p>Area: 2.079e4</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 1054.448961 ng/L</p> <p>Area: 4.347e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 2247.617650 ng/L</p> <p>Area: 1.053e5</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 9824.032079 ng/L</p> <p>Area: 4.330e5</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 20325.935630 ng/L</p> <p>Area: 1.087e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 172.070871 ng/L</p> <p>Area: 9.263e3</p> <p>Modified: (True)</p>	

<p>JU13 ICC</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 1054.719718 ng/L</p> <p>Area: 4.400e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 2616.238604 ng/L</p> <p>Area: 1.482e5</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 38.641530 ng/L</p> <p>Area: 2.154e3</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 11417.274254 ng/L</p> <p>Area: 2.893e5</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 11088.684894 ng/L</p> <p>Area: 3.217e5</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 81.002110 ng/L</p> <p>Area: 3.531e3</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 30.049990 ng/L</p> <p>Area: 2.023e3</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 7.603e2</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 1079.251456 ng/L</p> <p>Area: 5.583e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 8.684178 ng/L</p> <p>Area: 6.008e2</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 3.49 (3.40) min</p> <p>Calculated Conc: 19.981571 ng/L</p> <p>Area: 9.637e2</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis represents intensity from 0 to 40. A prominent peak is observed at 3.50 minutes, reaching an intensity of approximately 40. There are several smaller peaks between 3.70 and 4.20 minutes.</p>
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 15.977527 ng/L</p> <p>Area: 7.554e2</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis represents intensity from 0 to 80. A large peak is observed at 3.51 minutes, reaching an intensity of approximately 80. The peak area is shaded in blue. Several smaller peaks are visible between 3.70 and 4.20 minutes.</p>
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.40) min</p> <p>Calculated Conc: 3.770183 ng/L</p> <p>Area: 4.372e2</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis represents intensity from 0 to 70. A peak is observed at 3.49 minutes, reaching an intensity of approximately 70. The peak area is shaded in blue. Several smaller peaks are visible between 3.70 and 4.20 minutes.</p>
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 3.4 to 4.2 minutes. The y-axis represents intensity from 0 to 50. A peak is observed at 3.50 minutes, reaching an intensity of approximately 50. There are several other peaks between 3.6 and 4.2 minutes.</p>
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 2449.373090 ng/L</p> <p>Area: 1.257e5</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis represents intensity from 0 to 14000. A very large peak is observed at 3.50 minutes, reaching an intensity of approximately 14000. The peak area is shaded in blue. The baseline is very low and stable throughout the rest of the run.</p>



**Analyte:** NEtFOSAA\_2 (584.0 / 483.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

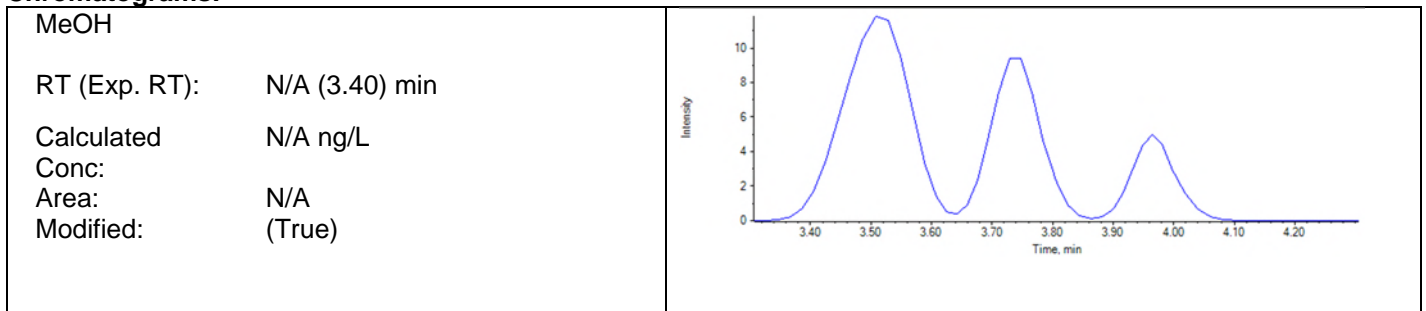
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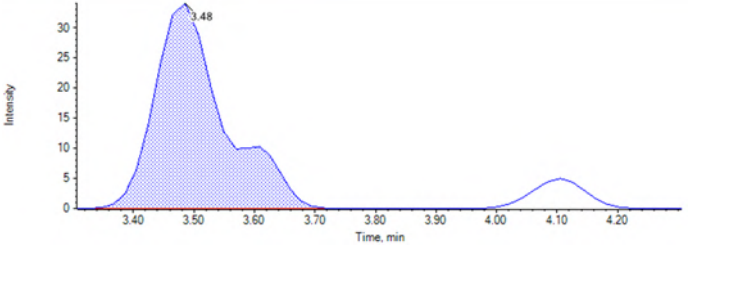
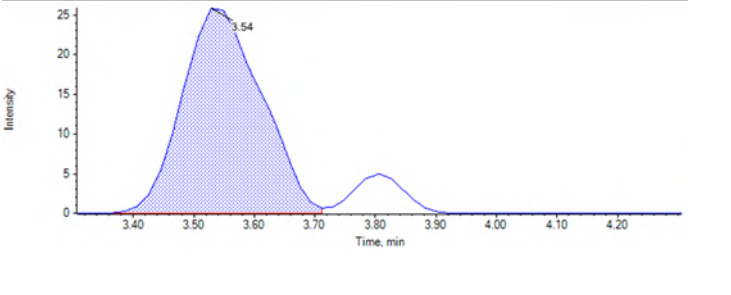
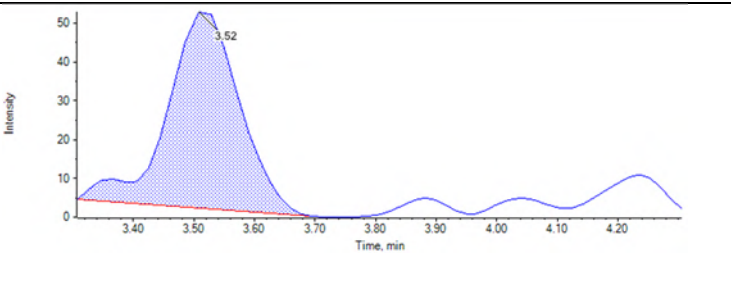
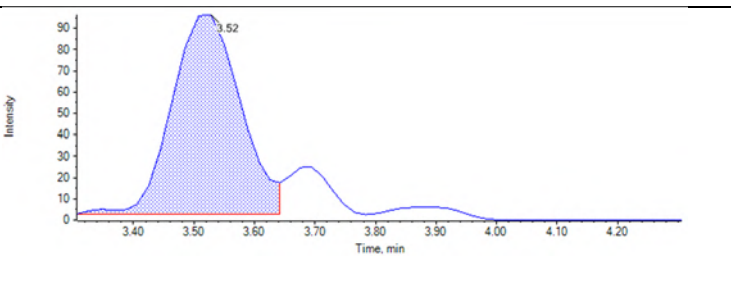
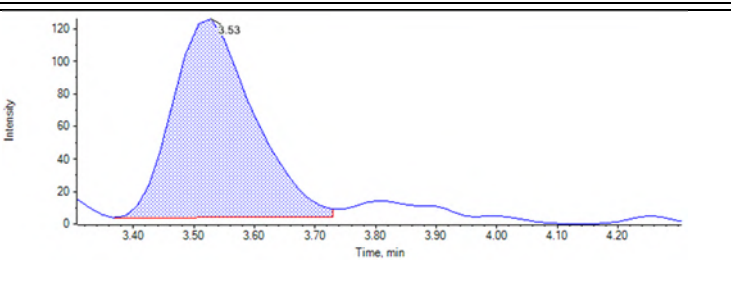
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	273	3.48	7742	25.00000	29.600031	118
JU05	Standard	3/28/2018 7:57:43 PM	236	3.54	4915	50.00000	56.985468	114
JU06	Standard	3/28/2018 8:08:31 PM	423	3.52	6548	100.00000	92.381424	92
JU07	Standard	3/28/2018 8:19:19 PM	735	3.52	5672	250.00000	230.691938	92
JU08	Standard	3/28/2018 8:30:06 PM	1130	3.53	4760	500.00000	460.829454	92
JU09	Standard	3/28/2018 8:40:53 PM	2375	3.53	5060	1000.00000	955.498792	96
JU10	Standard	3/28/2018 8:51:40 PM	6403	3.52	5789	2500.00000	2313.434396	93
JU11	Standard	3/28/2018 9:02:26 PM	26440	3.52	5472	10000.00000	10257.940241	103
JU12	Standard	3/28/2018 9:13:13 PM	62540	3.51	6645	20000.00000	20027.638257	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	589	3.51	6205	N/A	156.879177	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	2692	3.51	5121	1000.00000	1075.771652	108
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	5908	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	7212	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	6858	3.51	7009	N/A	2041.336022	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	5132	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	15320	3.50	3147	N/A	10335.125564	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	17480	3.51	3603	N/A	10303.628373	N/A

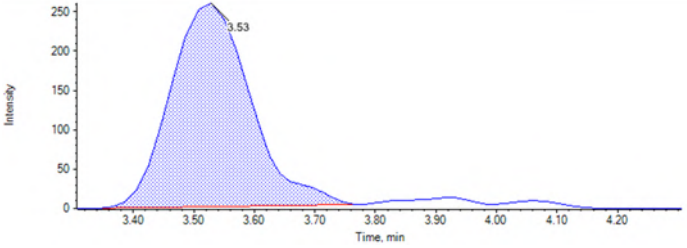
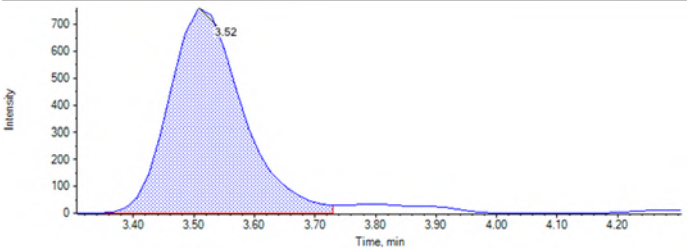
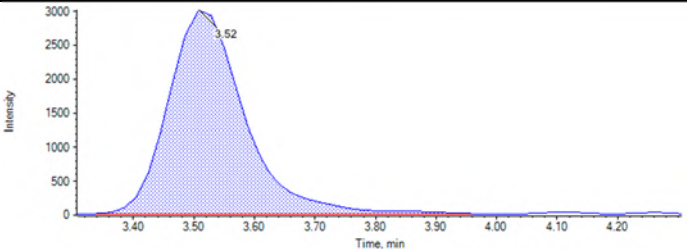
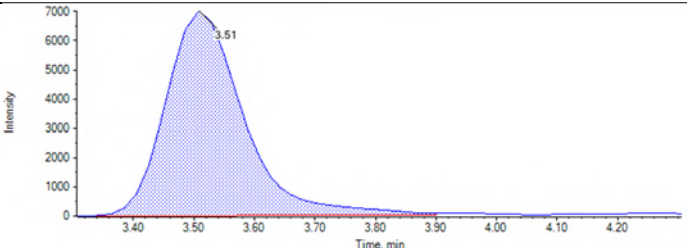
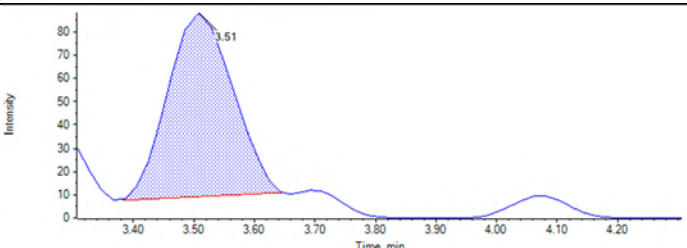


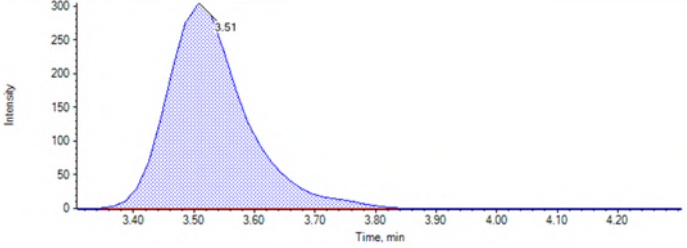
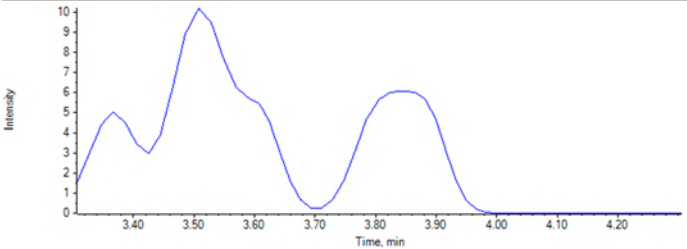
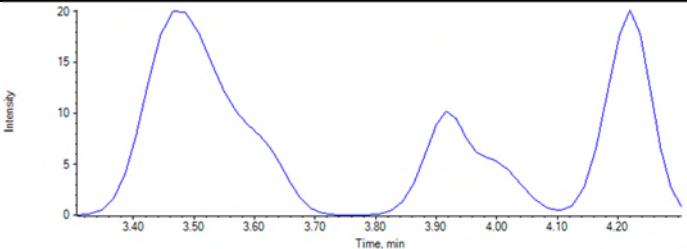
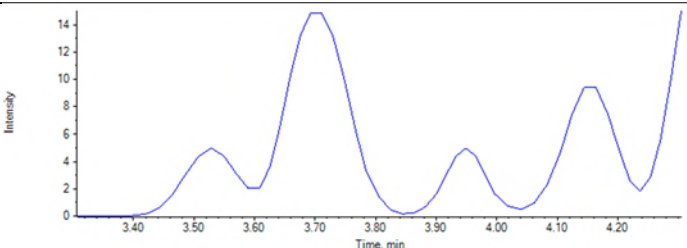
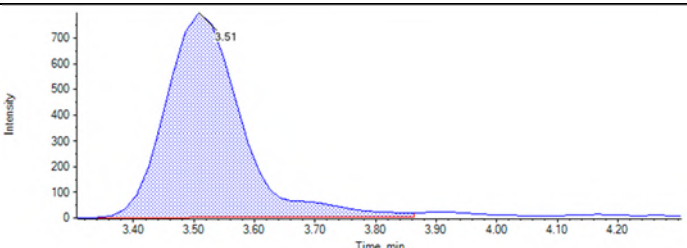
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	4644	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	5771	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	7053	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	3279	3.50	6352	1000.00000	1055.343777	106
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	3360	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	3574	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	4929	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	3181	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	3139	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	6718	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	6596	3.50	6344	2500.00000	2172.217488	87

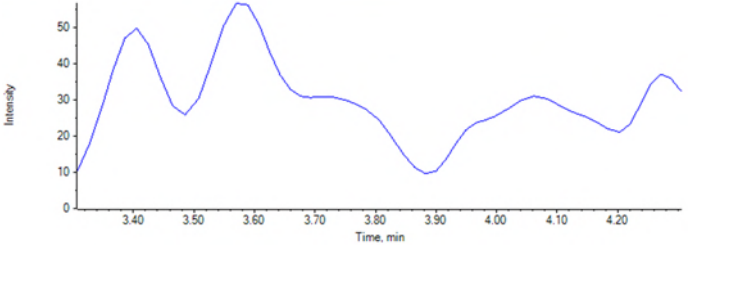
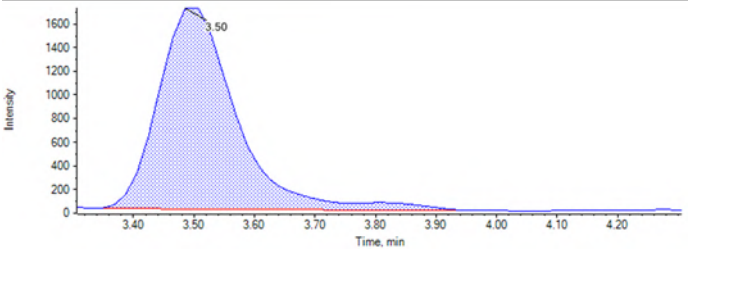
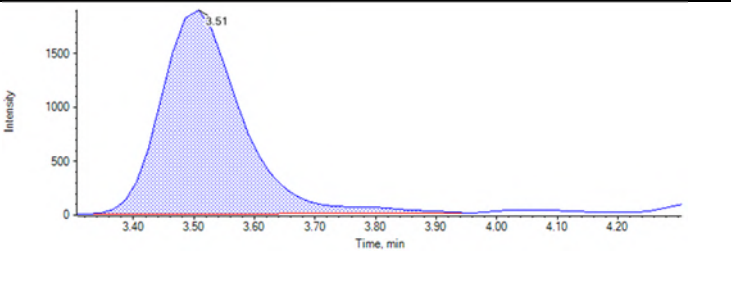
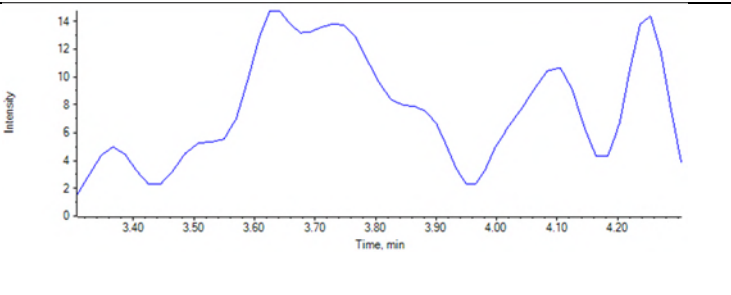
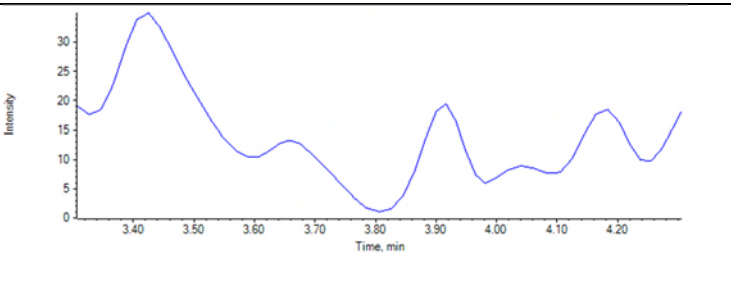
**Chromatograms:**

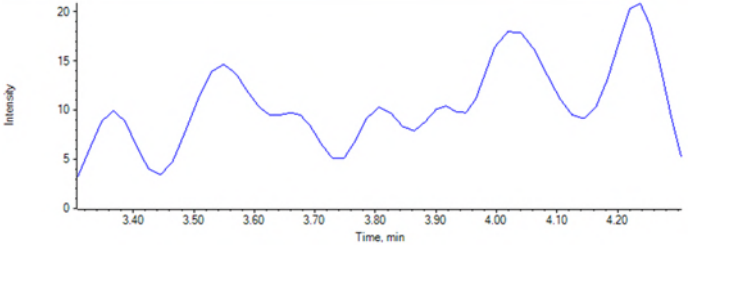
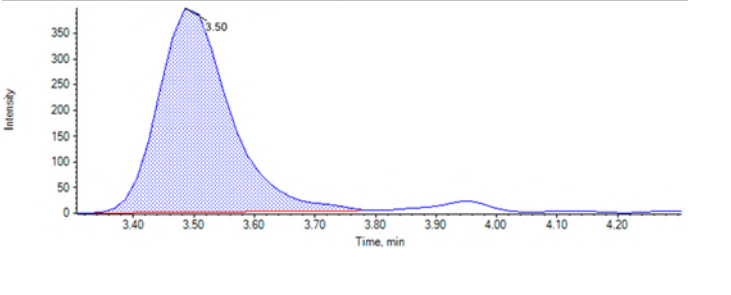
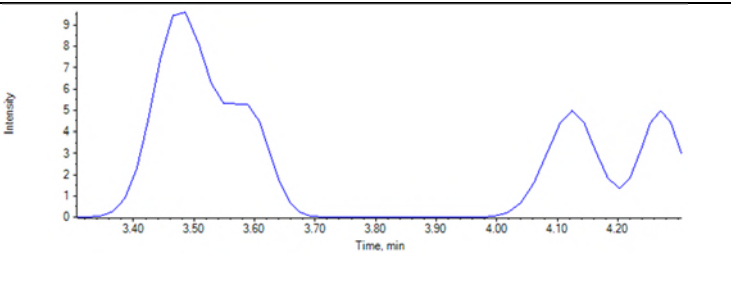
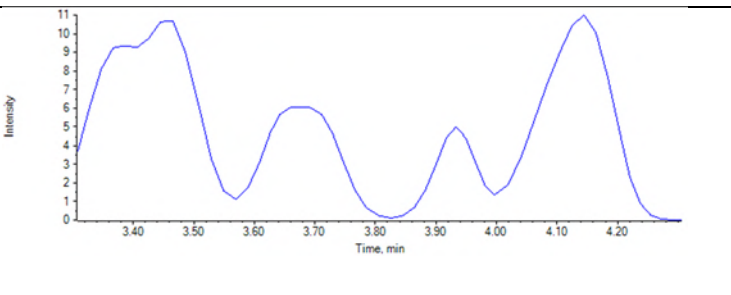
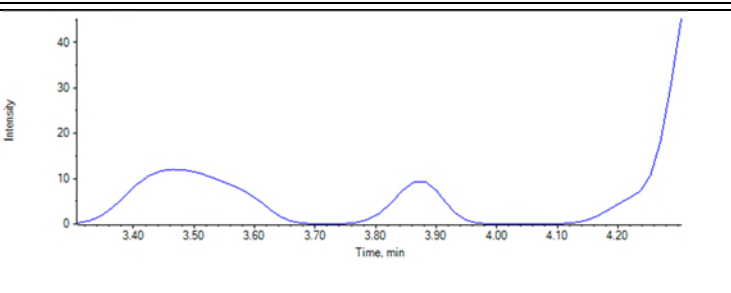


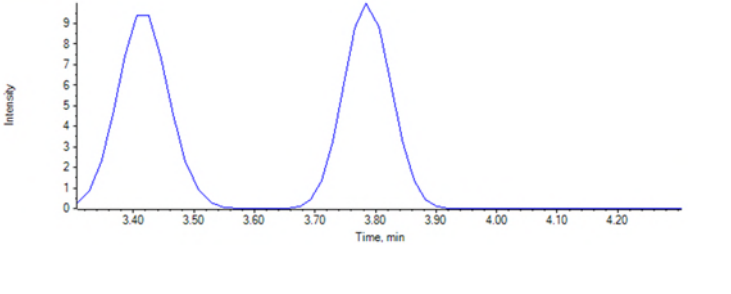
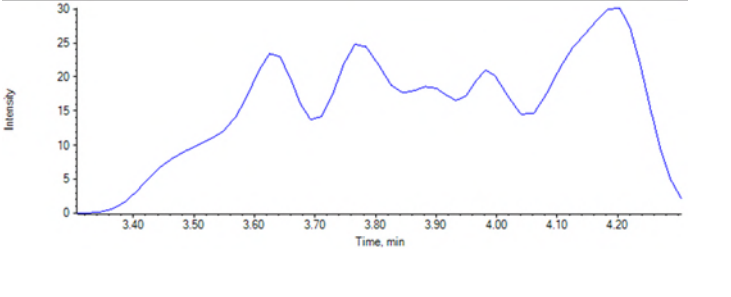
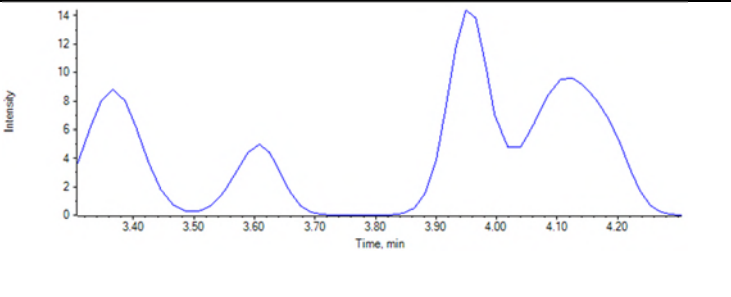
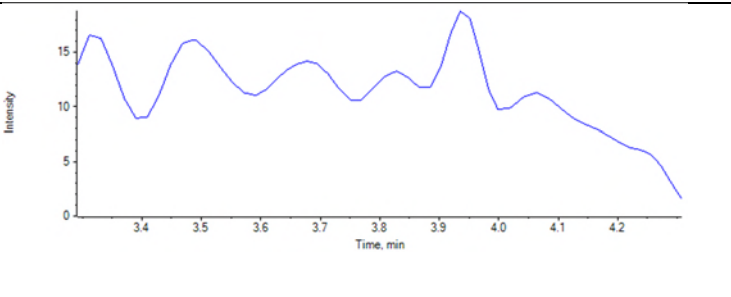
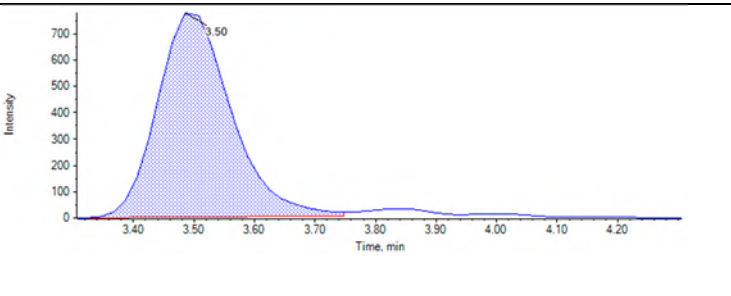
<p>JU04</p> <p>RT (Exp. RT): 3.48 (3.40) min</p> <p>Calculated Conc: 29.600031 ng/L</p> <p>Area: 2.726e2</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.54 (3.40) min</p> <p>Calculated Conc: 56.985468 ng/L</p> <p>Area: 2.362e2</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 92.381424 ng/L</p> <p>Area: 4.233e2</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 230.691938 ng/L</p> <p>Area: 7.345e2</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.53 (3.40) min</p> <p>Calculated Conc: 460.829454 ng/L</p> <p>Area: 1.130e3</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 3.53 (3.40) min</p> <p>Calculated Conc: 955.498792 ng/L</p> <p>Area: 2.375e3</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 2313.434396 ng/L</p> <p>Area: 6.403e3</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 10257.940241 ng/L</p> <p>Area: 2.644e4</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 20027.638257 ng/L</p> <p>Area: 6.254e4</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 156.879177 ng/L</p> <p>Area: 5.887e2</p> <p>Modified: (True)</p>	

<p>JU13 ICC</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 1075.771652 ng/L</p> <p>Area: 2.692e3</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 2041.336022 ng/L</p> <p>Area: 6.858e3</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min) for J5387-FS(3). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 50. The plot shows a complex signal with several peaks, notably around 3.45, 3.55, 3.95, and 4.15 minutes.</p>
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 10335.125564 ng/L</p> <p>Area: 1.532e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min) for J5387MS-FS(3). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 1600. A single, sharp peak is observed at 3.50 minutes, reaching an intensity of approximately 1600.</p>
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 10303.628373 ng/L</p> <p>Area: 1.748e4</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min) for J5387MSD-FS(3). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 1500. A single, sharp peak is observed at 3.51 minutes, reaching an intensity of approximately 1500.</p>
<p>J5388-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min) for J5388-FS(3). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 14. The plot shows a complex signal with several peaks, notably around 3.45, 3.65, 3.85, 4.05, and 4.25 minutes.</p>
<p>J5389-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min) for J5389-FS(3). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 30. The plot shows a complex signal with several peaks, notably around 3.45, 3.65, 3.95, 4.15, and 4.35 minutes.</p>

<p>J5390-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min) for J5390-FS(3). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 20. The plot shows several peaks, with the highest peak reaching an intensity of approximately 20 at around 4.25 minutes.</p>
<p>JU09 CCV</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 1055.343777 ng/L</p> <p>Area: 3.279e3</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min) for JU09 CCV. The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 350. A single, sharp peak is observed at 3.50 minutes, reaching an intensity of approximately 350.</p>
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min) for MeOH. The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 9. The plot shows several peaks, with the highest peak reaching an intensity of approximately 9 at around 3.50 minutes.</p>
<p>J5392-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min) for J5392-FS(3). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 11. The plot shows several peaks, with the highest peak reaching an intensity of approximately 11 at around 4.15 minutes.</p>
<p>J5394-FS(4)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time (min) for J5394-FS(4). The x-axis ranges from 3.40 to 4.20 minutes. The y-axis ranges from 0 to 40. The plot shows a small peak at approximately 3.50 minutes and a very large, rising peak starting around 4.10 minutes, reaching an intensity of approximately 40 at the end of the run.</p>

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 2172.217488 ng/L</p> <p>Area: 6.596e3</p> <p>Modified: (False)</p>	



**Analyte:** PFBA (213.0 / 169.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	16320	1.04	28800	25.00000	<0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	17290	1.04	23950	50.00000	<0	N/A
JU06	Standard	3/28/2018 8:08:31 PM	54060	1.06	26920	100.00000	105.189946	105
JU07	Standard	3/28/2018 8:19:19 PM	97440	1.05	28720	250.00000	232.211131	93
JU08	Standard	3/28/2018 8:30:06 PM	134000	1.06	24190	500.00000	429.521654	86
JU09	Standard	3/28/2018 8:40:53 PM	345200	1.05	24740	1000.00000	1201.587327	120
JU10	Standard	3/28/2018 8:51:40 PM	597500	1.05	22930	2500.00000	2312.794736	93
JU11	Standard	3/28/2018 9:02:26 PM	2638000	1.05	22670	10000.00000	10601.454656	106
JU12	Standard	3/28/2018 9:13:13 PM	6531000	1.05	30670	20000.00000	19467.240551	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	31160	1.07	28780	N/A	20.217585	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	274200	1.05	24790	1000.00000	936.253893	94
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	28370	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	45440	1.04	28010	N/A	69.757917	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	988000	1.04	27970	N/A	3163.226926	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	8265	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1089000	1.18	9881	N/A	10040.797072	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1318000	1.19	11230	N/A	10685.121514	N/A

Not being used in this calibration.  
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	17200	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	9268	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	11320	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	464400	1.04	32620	1000.00000	1227.442979	123
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	137900	1.02	15710	N/A	726.419216	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	13160	N/A	N/A	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>28450</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	8947	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	13760	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	10440	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	773700	1.04	30610	2500.00000	2241.212351	90

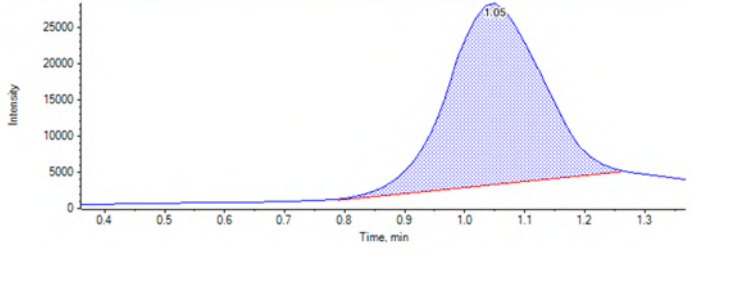
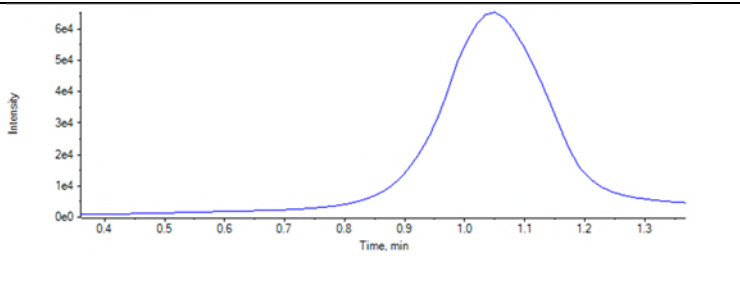
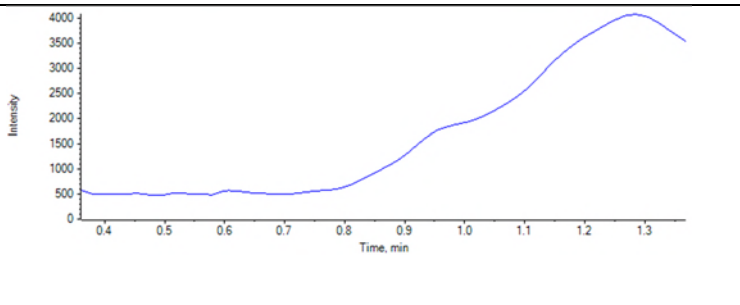
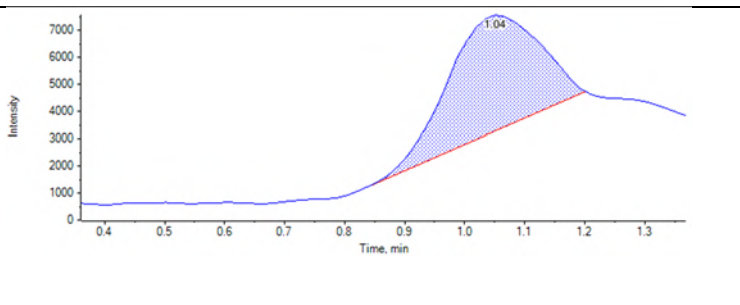
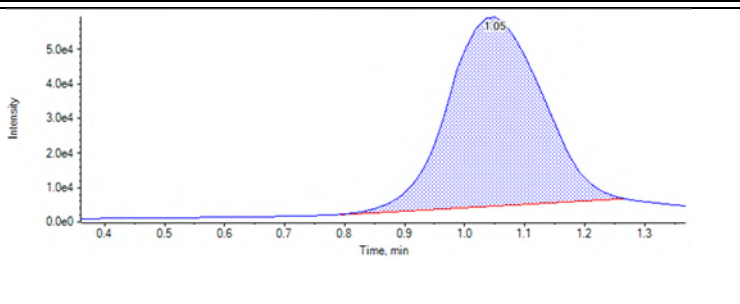
Dilution not needed. DMS 4/4/2018

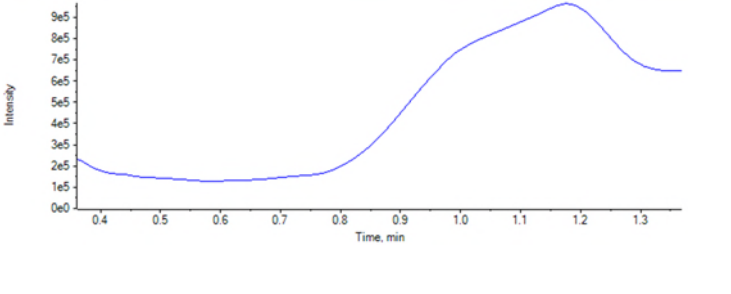
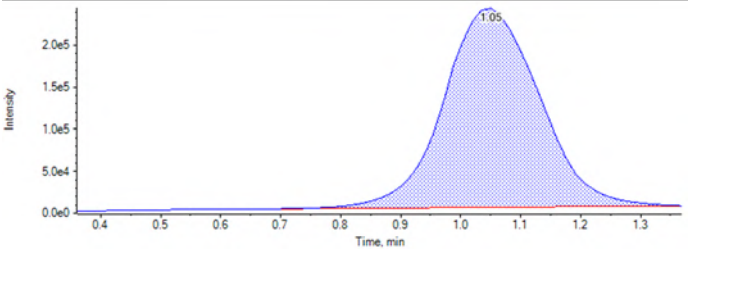
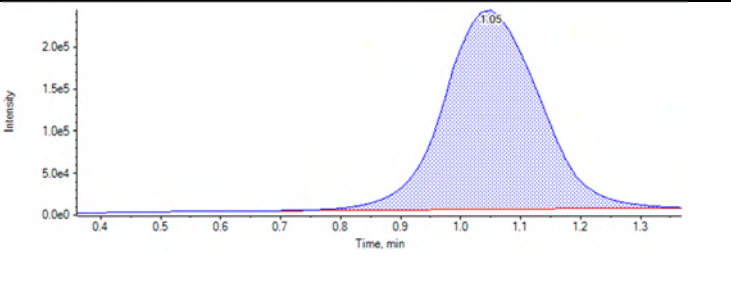
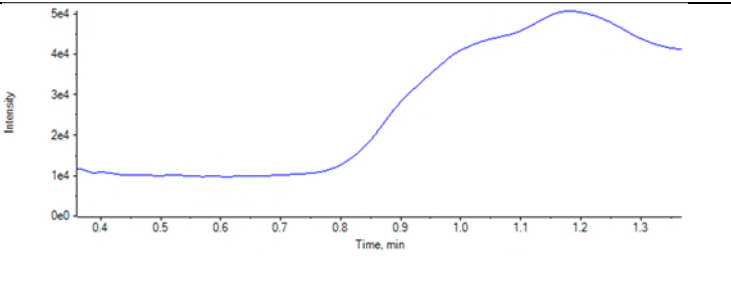
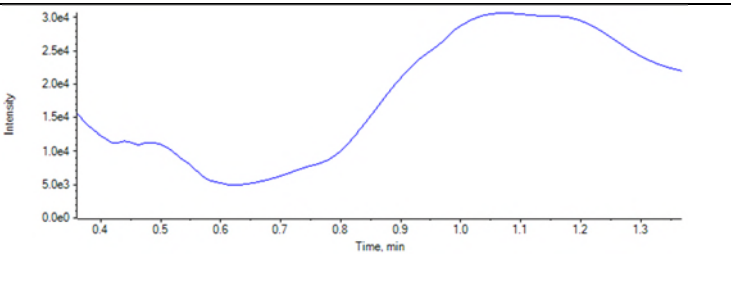
**Chromatograms:**

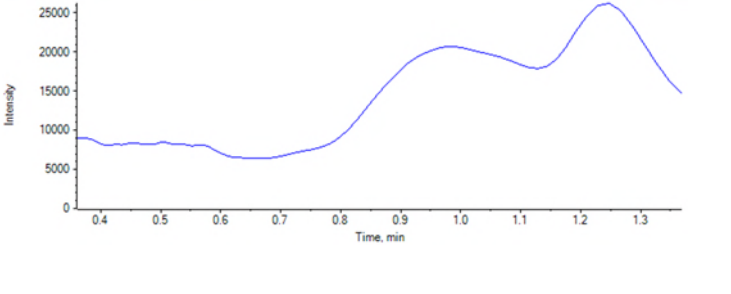
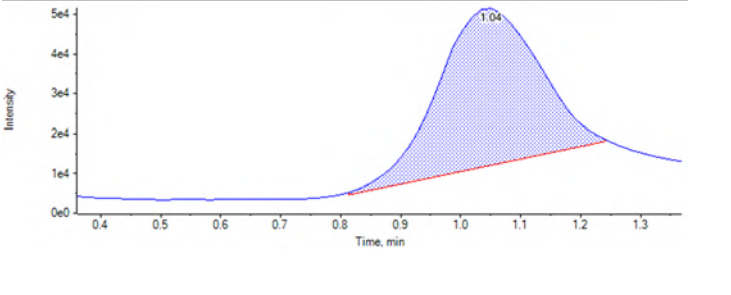
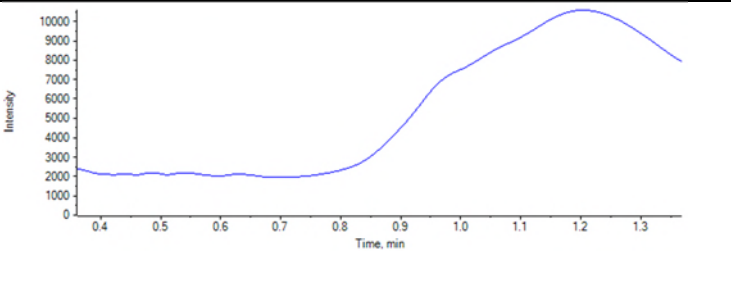
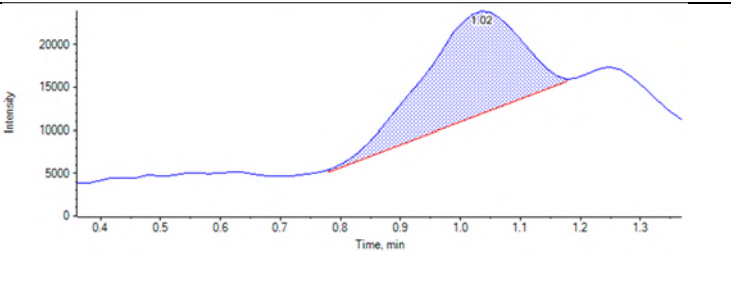
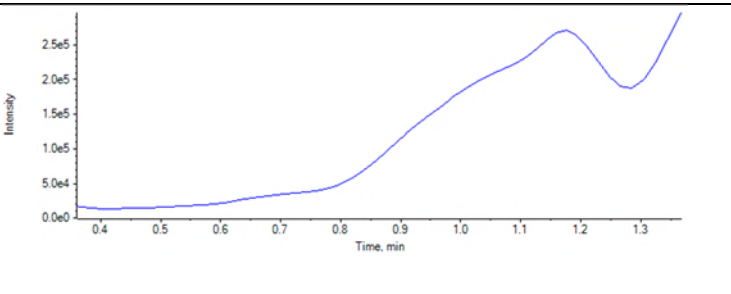
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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<p>JU04</p> <p>RT (Exp. RT): 1.04 (1.00) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.632e4</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.04 (1.00) min</p> <p>Calculated Conc: &lt; 0 ng/L</p> <p>Area: 1.729e4</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.06 (1.00) min</p> <p>Calculated Conc: 105.189946 ng/L</p> <p>Area: 5.406e4</p> <p>Modified: (True)</p>	
<p>JU07</p> <p>RT (Exp. RT): 1.05 (1.00) min</p> <p>Calculated Conc: 232.211131 ng/L</p> <p>Area: 9.744e4</p> <p>Modified: (True)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.06 (1.00) min</p> <p>Calculated Conc: 429.521654 ng/L</p> <p>Area: 1.340e5</p> <p>Modified: (True)</p>	

<p>JU09</p> <p>RT (Exp. RT): 1.05 (1.00) min</p> <p>Calculated Conc: 1201.587327 ng/L</p> <p>Area: 3.452e5</p> <p>Modified: (True)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.05 (1.00) min</p> <p>Calculated Conc: 2312.794736 ng/L</p> <p>Area: 5.975e5</p> <p>Modified: (True)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.05 (1.00) min</p> <p>Calculated Conc: 10601.454656 ng/L</p> <p>Area: 2.638e6</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 1.05 (1.00) min</p> <p>Calculated Conc: 19467.240551 ng/L</p> <p>Area: 6.531e6</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.07 (1.00) min</p> <p>Calculated Conc: 20.217585 ng/L</p> <p>Area: 3.116e4</p> <p>Modified: (True)</p>	

<p>JU13 ICC</p> <p>RT (Exp. RT): 1.05 (1.00) min</p> <p>Calculated Conc: 936.253893 ng/L</p> <p>Area: 2.742e5</p> <p>Modified: (True)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 1.04 (1.00) min</p> <p>Calculated Conc: 69.757917 ng/L</p> <p>Area: 4.544e4</p> <p>Modified: (True)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 1.04 (1.00) min</p> <p>Calculated Conc: 3163.226926 ng/L</p> <p>Area: 9.880e5</p> <p>Modified: (True)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 1.18 (1.00) min</p> <p>Calculated Conc: 10040.797072 ng/L</p> <p>Area: 1.089e6</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 1.19 (1.00) min</p> <p>Calculated Conc: 10685.121514 ng/L</p> <p>Area: 1.318e6</p> <p>Modified: (True)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time, min. The y-axis ranges from 0 to 25000. The x-axis ranges from 0.4 to 1.3. A significant peak is observed at 1.04 minutes.</p>
<p>JU09 CCV</p> <p>RT (Exp. RT): 1.04 (1.00) min</p> <p>Calculated Conc: 1227.442979 ng/L</p> <p>Area: 4.644e5</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time, min. The y-axis ranges from 0e0 to 5e4. The x-axis ranges from 0.4 to 1.3. A peak is observed at 1.04 minutes, with the area under the peak shaded in blue.</p>
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time, min. The y-axis ranges from 0 to 10000. The x-axis ranges from 0.4 to 1.3. A peak is observed at 1.04 minutes.</p>
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 1.02 (1.00) min</p> <p>Calculated Conc: 726.419216 ng/L</p> <p>Area: 1.379e5</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time, min. The y-axis ranges from 0 to 20000. The x-axis ranges from 0.4 to 1.3. A peak is observed at 1.02 minutes, with the area under the peak shaded in blue.</p>
<p>J5394-FS(4)</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing Intensity vs Time, min. The y-axis ranges from 0.0e0 to 2.5e5. The x-axis ranges from 0.4 to 1.3. A peak is observed at 1.02 minutes.</p>



<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 1.04 (1.00) min</p> <p>Calculated Conc: 2241.212351 ng/L</p> <p>Area: 7.737e5</p> <p>Modified: (True)</p>	

**Analyte:** 13C2-PFDoA (615.0 / 570.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

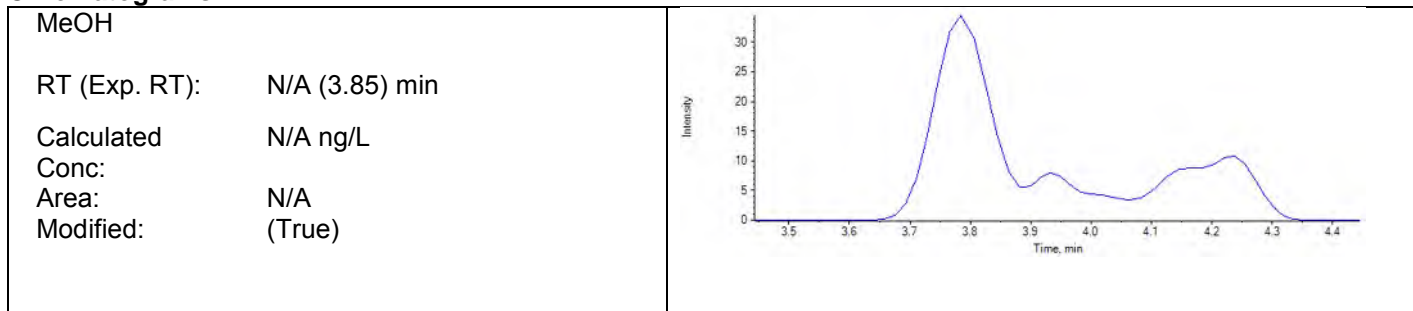
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	43180	3.80	41340	100.00000	105.039219	105
JU05	Standard	3/28/2018 7:57:43 PM	35040	3.80	33110	100.00000	106.400001	106
JU06	Standard	3/28/2018 8:08:31 PM	36240	3.81	38450	100.00000	94.777188	95
JU07	Standard	3/28/2018 8:19:19 PM	40540	3.80	41500	100.00000	98.238670	98
JU08	Standard	3/28/2018 8:30:06 PM	32440	3.80	35120	100.00000	92.879805	93
JU09	Standard	3/28/2018 8:40:53 PM	37250	3.80	38600	100.00000	97.029488	97
JU10	Standard	3/28/2018 8:51:40 PM	31930	3.80	33750	100.00000	95.144309	95
JU11	Standard	3/28/2018 9:02:26 PM	33740	3.80	35090	100.00000	96.706326	97
JU12	Standard	3/28/2018 9:13:13 PM	54840	3.79	48470	100.00000	113.784994	114
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	40380	3.80	42790	100.00000	94.900349	95
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	33620	3.79	34240	100.00000	98.740602	99
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	41120	3.79	39510	100.00000	104.657715	105
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	39870	3.79	47690	100.00000	84.059976	84
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	40420	3.79	41370	100.00000	98.231030	98
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	21520	3.78	24290	100.00000	89.096789	89
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	24330	3.78	24780	100.00000	98.729297	99
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	28960	3.79	22750	100.00000	128.010967	128

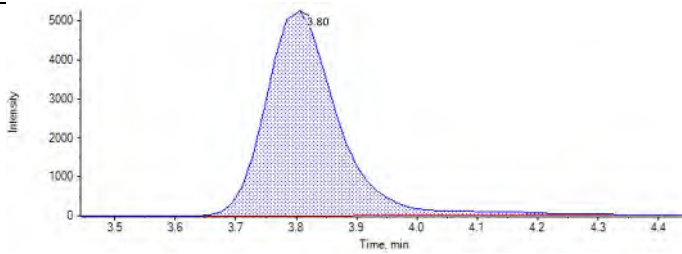
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	24230	3.78	38400	100.00000	63.453512	63
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	24120	3.79	22860	100.00000	106.115367	106
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	33720	3.79	40110	100.00000	84.552606	85
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	43890	3.78	43390	100.00000	101.699115	102
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	21510	3.78	32750	100.00000	66.051665	66
J5394-FS(4)	Quality Control	3/29/2018 12:48:42 AM	26430	3.78	37930	100.00000	70.074465	70
<del>J5394-FS-D(5)</del>	<del>Quality Control</del>	<del>3/29/2018 12:59:28 AM</del>	<del>43010</del>	<del>3.78</del>	<del>44650</del>	<del>100.00000</del>	<del>96.867644</del>	<del>97</del>
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	24340	3.78	25650	100.00000	95.396250	95
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	19400	3.78	31410	100.00000	62.113609	62
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	32290	3.78	35380	100.00000	91.781314	92
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	40960	3.78	41760	100.00000	98.634244	99

Dilution not needed. DMS 4/6/2018

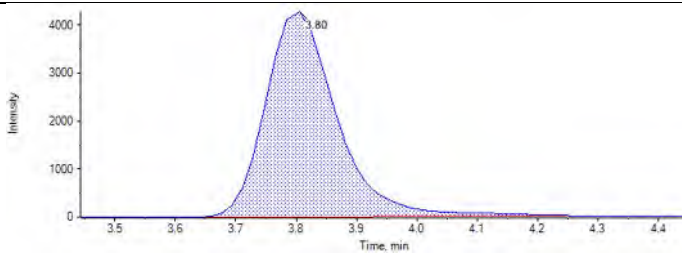
**Chromatograms:**



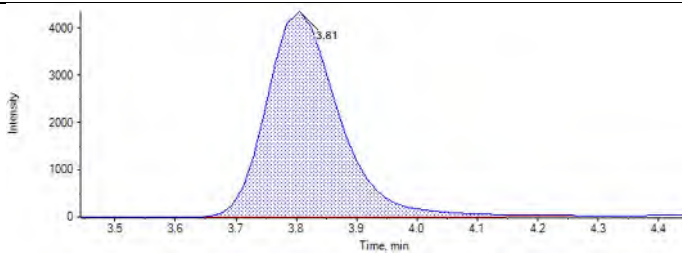
JU04  
RT (Exp. RT): 3.80 (3.85) min  
Calculated Conc: 105.039219 ng/L  
Area: 4.318e4  
Modified: (False)



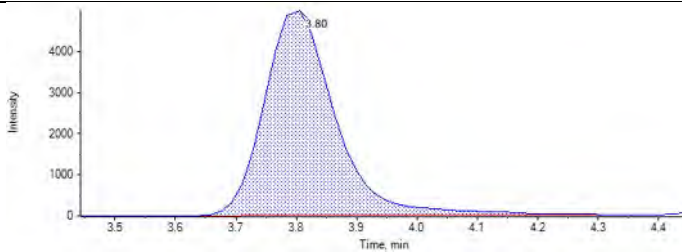
JU05  
RT (Exp. RT): 3.80 (3.85) min  
Calculated Conc: 106.400001 ng/L  
Area: 3.504e4  
Modified: (False)



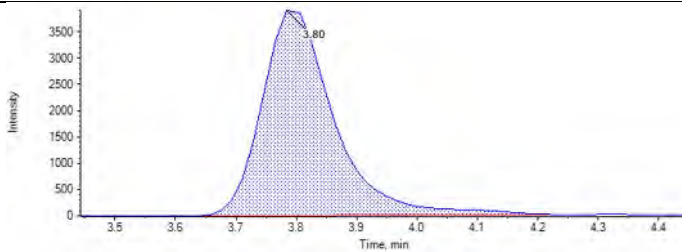
JU06  
RT (Exp. RT): 3.81 (3.85) min  
Calculated Conc: 94.777188 ng/L  
Area: 3.624e4  
Modified: (False)



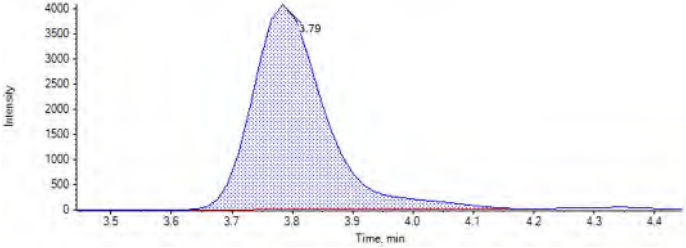
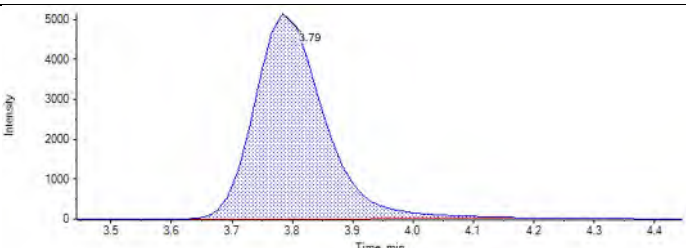
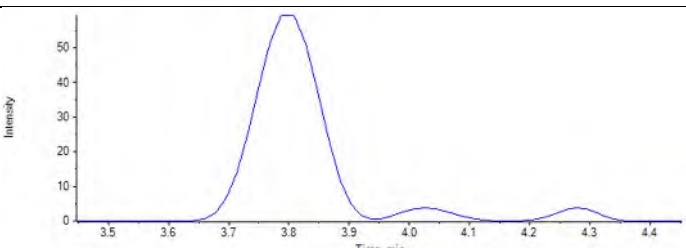
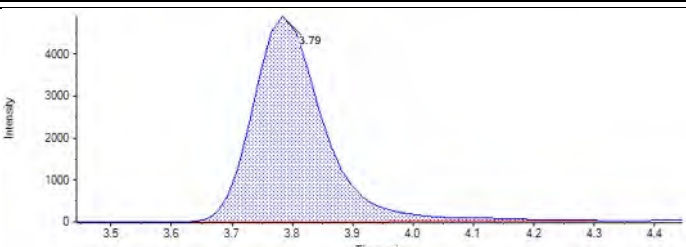
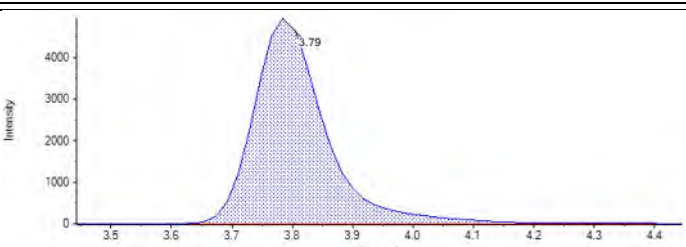
JU07  
RT (Exp. RT): 3.80 (3.85) min  
Calculated Conc: 98.238670 ng/L  
Area: 4.054e4  
Modified: (False)



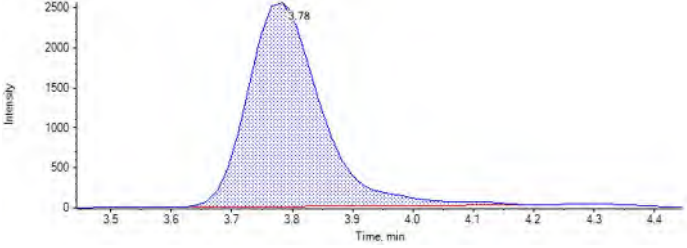
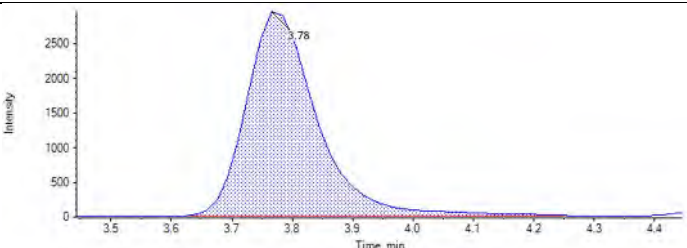
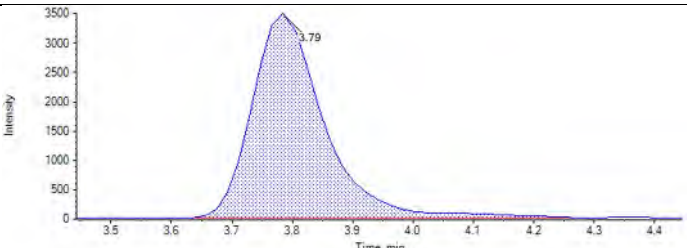
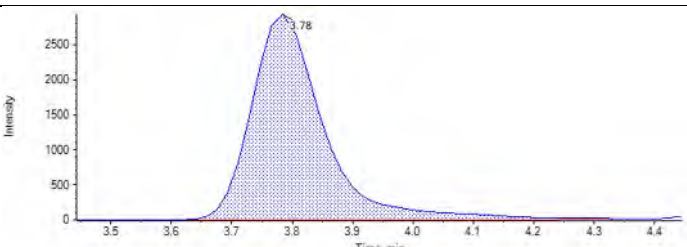
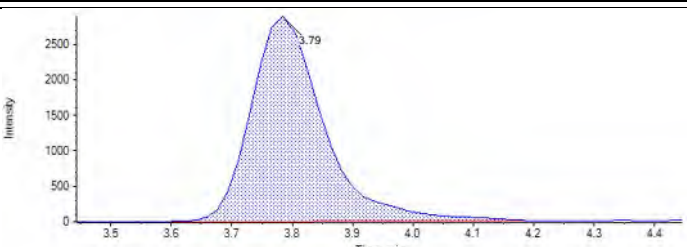
JU08  
RT (Exp. RT): 3.80 (3.85) min  
Calculated Conc: 92.879805 ng/L  
Area: 3.244e4  
Modified: (False)



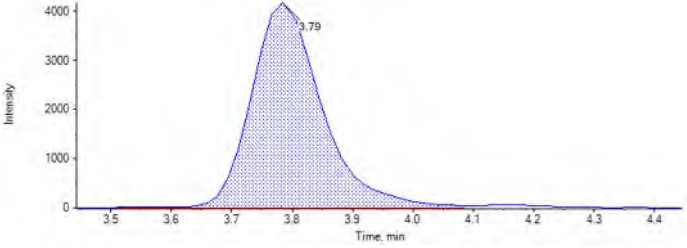
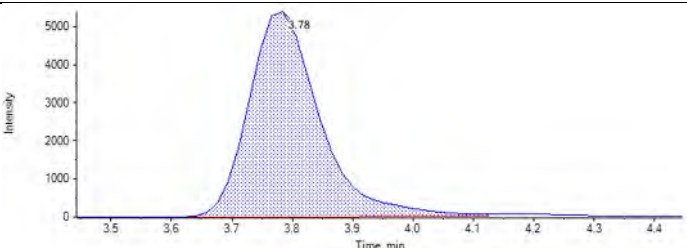
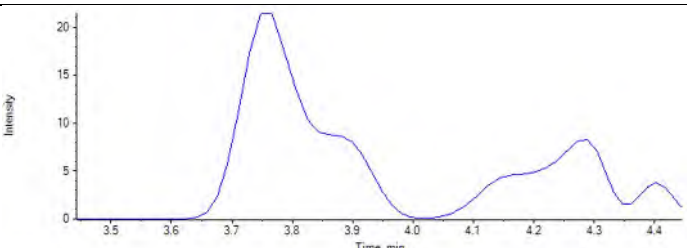
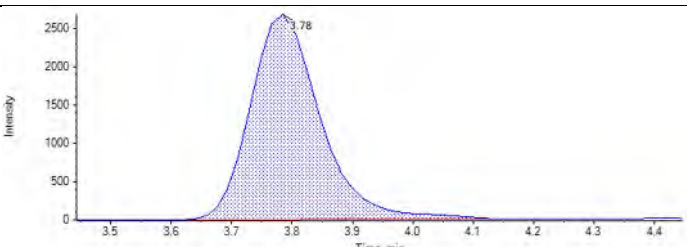
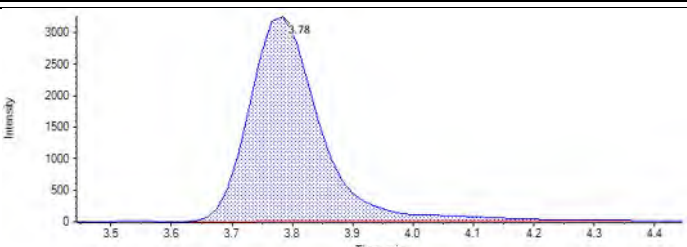
<p>JU09</p> <p>RT (Exp. RT): 3.80 (3.85) min</p> <p>Calculated Conc: 97.029488 ng/L</p> <p>Area: 3.725e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.80 (3.85) min</p> <p>Calculated Conc: 95.144309 ng/L</p> <p>Area: 3.193e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.80 (3.85) min</p> <p>Calculated Conc: 96.706326 ng/L</p> <p>Area: 3.374e4</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.79 (3.85) min</p> <p>Calculated Conc: 113.784994 ng/L</p> <p>Area: 5.484e4</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.80 (3.85) min</p> <p>Calculated Conc: 94.900349 ng/L</p> <p>Area: 4.038e4</p> <p>Modified: (False)</p>	

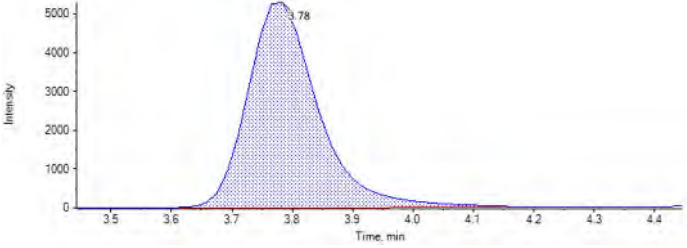
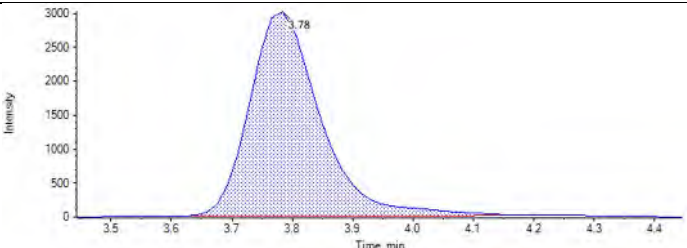
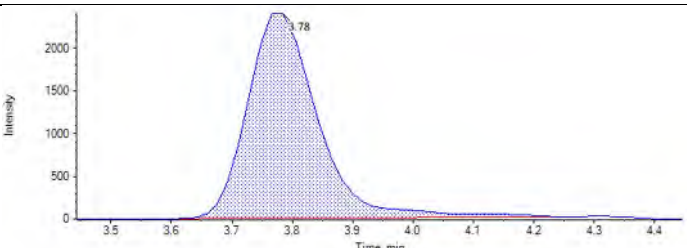
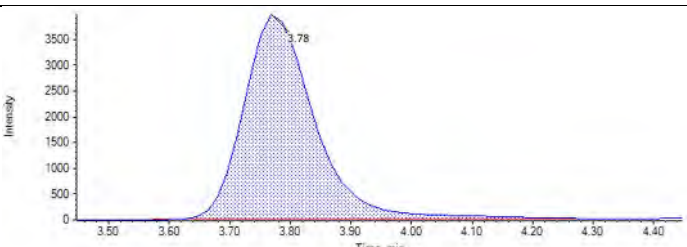
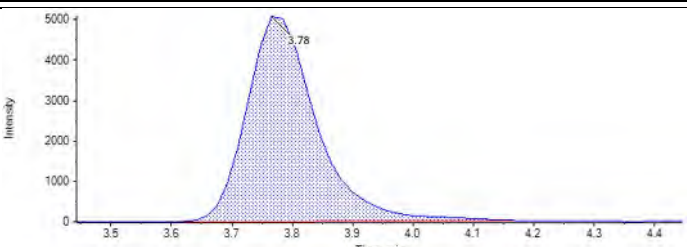
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.79 (3.85) min</p> <p>Calculated Conc: 98.740602 ng/L</p> <p>Area: 3.362e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 3.79 (3.85) min</p> <p>Calculated Conc: 104.657715 ng/L</p> <p>Area: 4.112e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.85) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.85) min</p> <p>Calculated Conc: 84.059976 ng/L</p> <p>Area: 3.987e4</p> <p>Modified: (False)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.85) min</p> <p>Calculated Conc: 98.231030 ng/L</p> <p>Area: 4.042e4</p> <p>Modified: (False)</p>	



<p>J5387-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 89.096789 ng/L</p> <p>Area: 2.152e4</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 98.729297 ng/L</p> <p>Area: 2.433e4</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.85) min</p> <p>Calculated Conc: 128.010967 ng/L</p> <p>Area: 2.896e4</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 63.453512 ng/L</p> <p>Area: 2.423e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.85) min</p> <p>Calculated Conc: 106.115367 ng/L</p> <p>Area: 2.412e4</p> <p>Modified: (False)</p>	



<p>J5390-FS(3)</p> <p>RT (Exp. RT): 3.79 (3.85) min</p> <p>Calculated Conc: 84.552606 ng/L</p> <p>Area: 3.372e4</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 101.699115 ng/L</p> <p>Area: 4.389e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.85) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 66.051665 ng/L</p> <p>Area: 2.151e4</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 70.074465 ng/L</p> <p>Area: 2.643e4</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 96.867644 ng/L</p> <p>Area: 4.301e4</p> <p>Modified: (False)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 95.396250 ng/L</p> <p>Area: 2.434e4</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 62.113609 ng/L</p> <p>Area: 1.940e4</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 91.781314 ng/L</p> <p>Area: 3.229e4</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 98.634244 ng/L</p> <p>Area: 4.096e4</p> <p>Modified: (False)</p>	

**Analyte:** d3-MeFOSAA (573.0 / 419.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

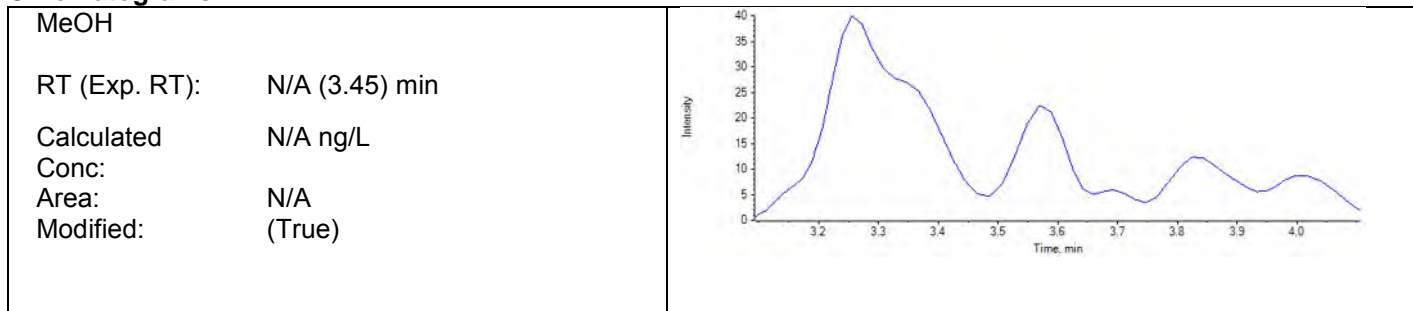
**Samples:**

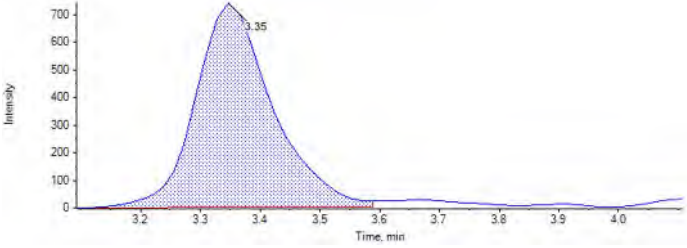
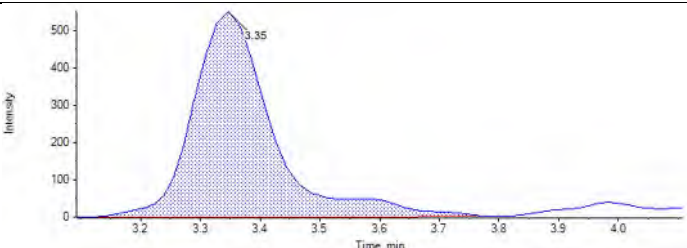
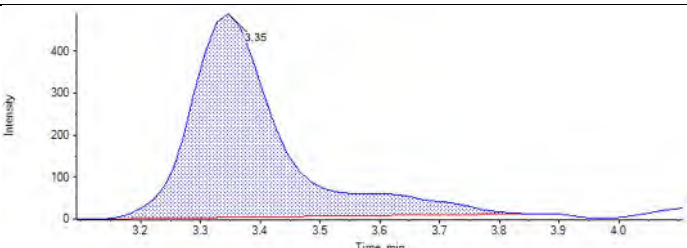
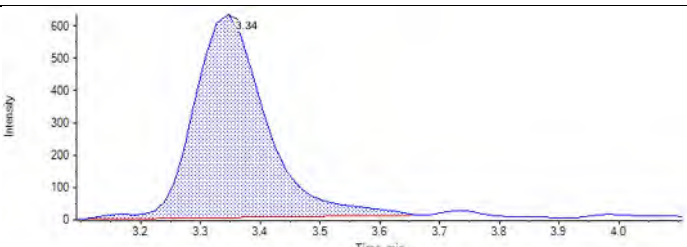
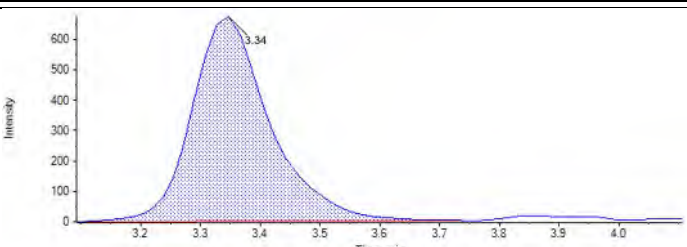
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	6598	3.35	10060	100.00000	106.711976	107
JU05	Standard	3/28/2018 7:57:43 PM	5054	3.35	8431	100.00000	97.551200	98
JU06	Standard	3/28/2018 8:08:31 PM	5105	3.35	9601	100.00000	86.539391	87
JU07	Standard	3/28/2018 8:19:19 PM	5277	3.34	10710	100.00000	80.198108	80
JU08	Standard	3/28/2018 8:30:06 PM	6102	3.34	8102	100.00000	122.577250	123
JU09	Standard	3/28/2018 8:40:53 PM	5086	3.34	10010	100.00000	82.691208	83
JU10	Standard	3/28/2018 8:51:40 PM	4437	3.35	7234	100.00000	99.814696	100
JU11	Standard	3/28/2018 9:02:26 PM	6017	3.35	7902	100.00000	123.916170	124
<del>JU12</del>	<del>Standard</del>	<del>3/28/2018 9:13:13 PM</del>	<del>9523</del>	<del>3.34</del>	<del>10400</del>	<del>100.00000</del>	<del>149.081175</del>	<del>149</del>
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	6604	3.35	9601	100.00000	111.933303	112
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	5405	3.33	9201	100.00000	95.596535	96
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	6631	3.33	10110	100.00000	106.706807	107
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	5936	3.33	9743	100.00000	99.161712	99
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	6875	3.33	8607	100.00000	129.990234	130
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	3814	3.32	4915	100.00000	126.283229	126
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	3840	3.31	4974	100.00000	125.635981	126
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	4110	3.33	4805	100.00000	139.192998	139

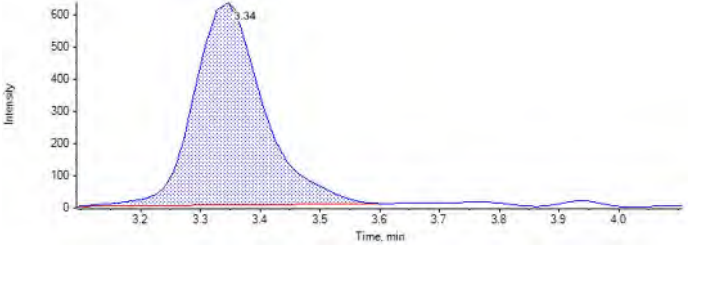
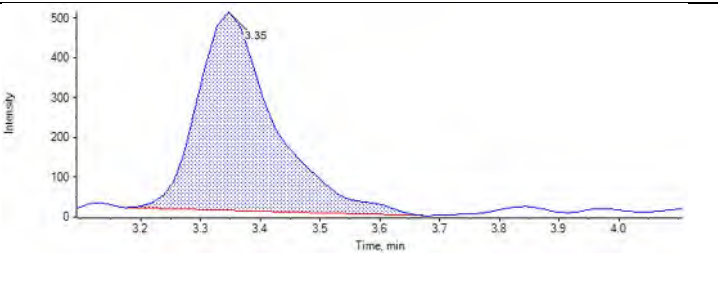
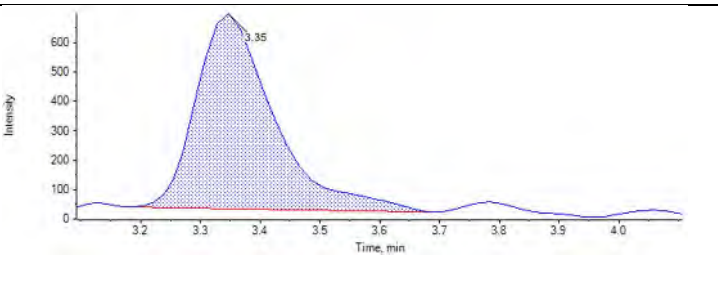
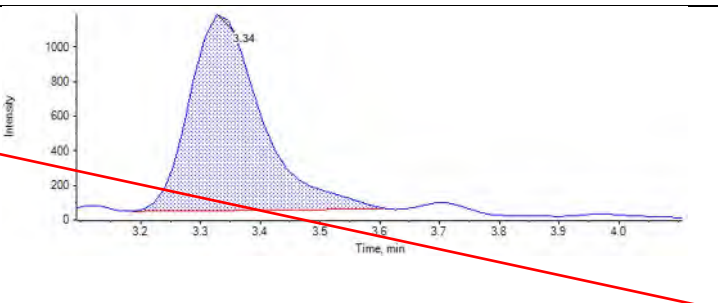
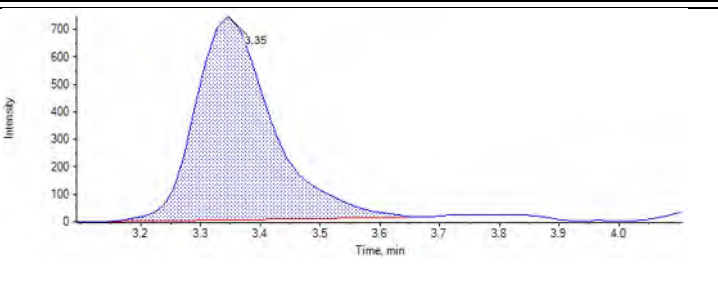
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	4951	3.33	9823	100.00000	82.029721	82
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	4500	3.33	5273	100.00000	138.907844	139
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	6603	3.34	7482	100.00000	143.623178	144
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	5617	3.34	10350	100.00000	88.286517	88
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	3754	3.33	6840	100.00000	89.324686	89
J5394-FS(4)	Quality Control	3/29/2018 12:48:42 AM	4325	3.32	7055	100.00000	99.774960	100
<del>J5394-FS-D(5)</del>	<del>Quality Control</del>	<del>3/29/2018 12:59:28 AM</del>	<del>6005</del>	<del>3.33</del>	<del>10830</del>	<del>100.00000</del>	<del>90.205857</del>	<del>90</del>
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	4334	3.33	6163	100.00000	114.435088	114
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	2847	3.32	7646	100.00000	60.605412	61
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	5552	3.32	8738	100.00000	103.406469	103
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	5733	3.32	9198	100.00000	101.431524	101

Dilution not needed. DMS 4/6/2018

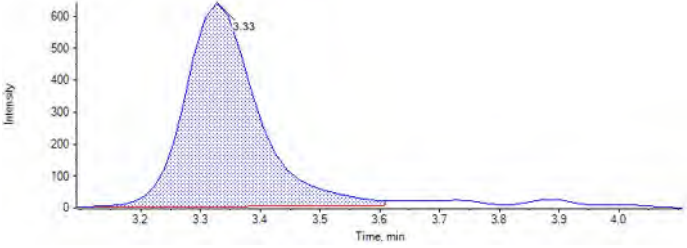
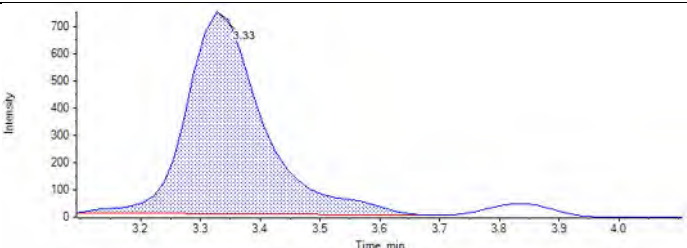
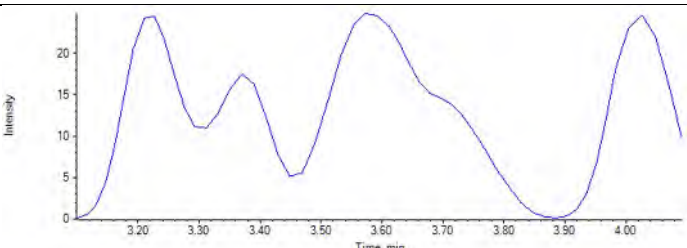
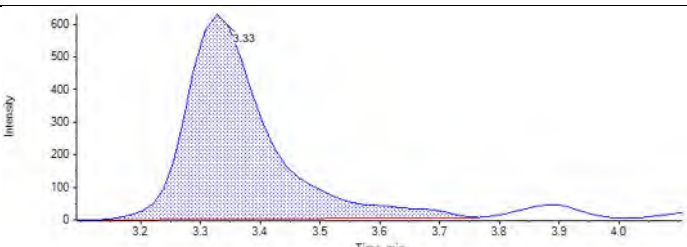
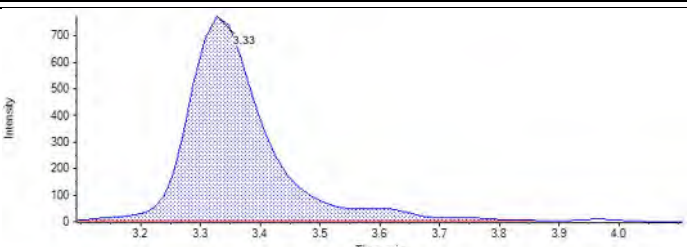
**Chromatograms:**



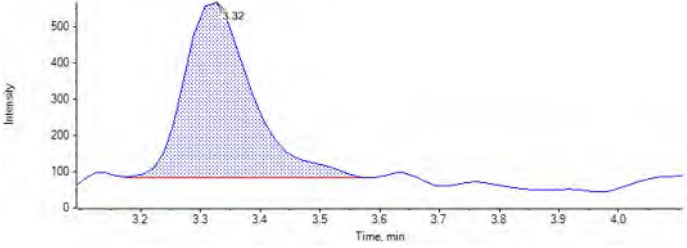
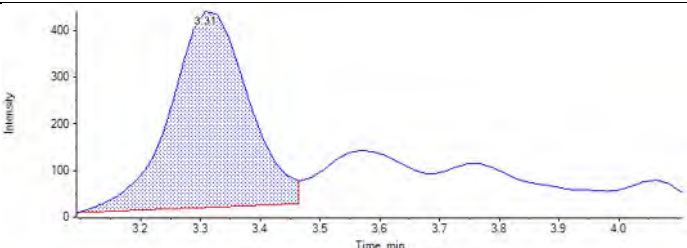
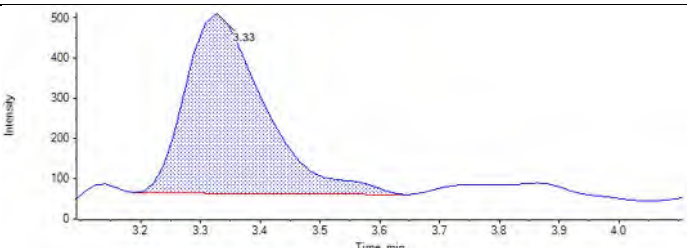
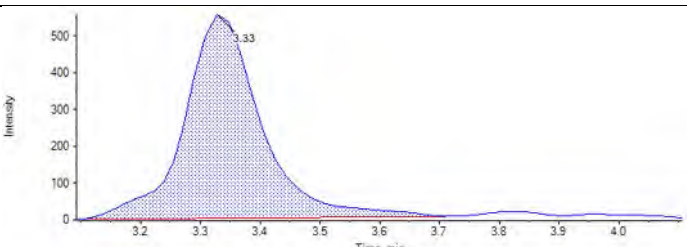
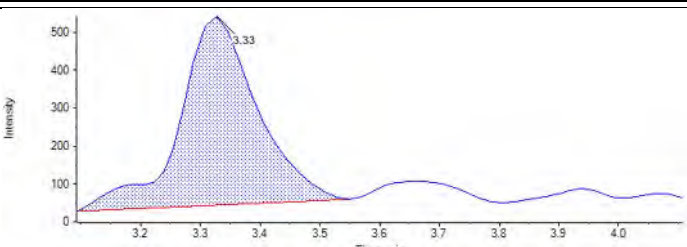
<p>JU04</p> <p>RT (Exp. RT): 3.35 (3.45) min</p> <p>Calculated Conc: 106.711976 ng/L</p> <p>Area: 6.598e3</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.35 (3.45) min</p> <p>Calculated Conc: 97.551200 ng/L</p> <p>Area: 5.054e3</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.35 (3.45) min</p> <p>Calculated Conc: 86.539391 ng/L</p> <p>Area: 5.105e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.34 (3.45) min</p> <p>Calculated Conc: 80.198108 ng/L</p> <p>Area: 5.277e3</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.34 (3.45) min</p> <p>Calculated Conc: 122.577250 ng/L</p> <p>Area: 6.102e3</p> <p>Modified: (False)</p>	

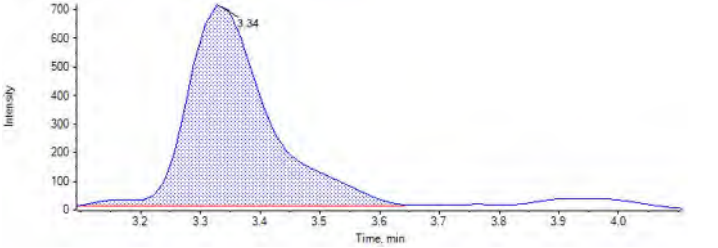
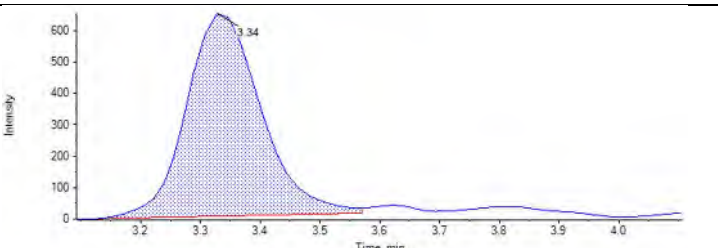
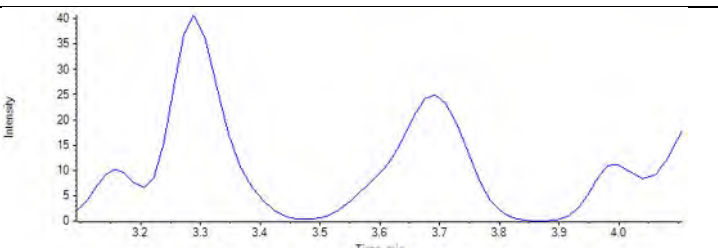
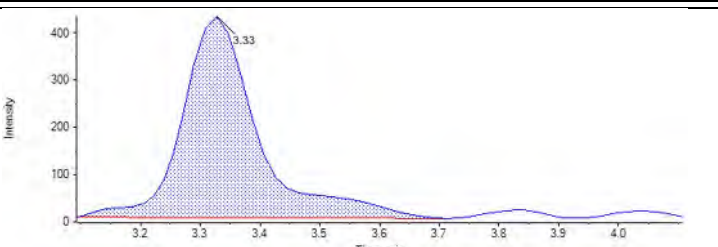
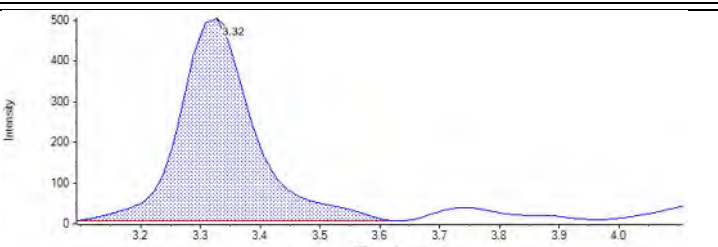
<p>JU09</p> <p>RT (Exp. RT): 3.34 (3.45) min</p> <p>Calculated Conc: 82.691208 ng/L</p> <p>Area: 5.086e3</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.35 (3.45) min</p> <p>Calculated Conc: 99.814696 ng/L</p> <p>Area: 4.437e3</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.35 (3.45) min</p> <p>Calculated Conc: 123.916170 ng/L</p> <p>Area: 6.017e3</p> <p>Modified: (False)</p>	
<p><del>JU12</del></p> <p><del>RT (Exp. RT): 3.34 (3.45) min</del></p> <p><del>Calculated Conc: 149.081175 ng/L</del></p> <p><del>Area: 9.523e3</del></p> <p><del>Modified: (True)</del></p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.35 (3.45) min</p> <p>Calculated Conc: 111.933303 ng/L</p> <p>Area: 6.604e3</p> <p>Modified: (False)</p>	



<p>JU13 ICC</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 95.596535 ng/L</p> <p>Area: 5.405e3</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 106.706807 ng/L</p> <p>Area: 6.631e3</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.45) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 99.161712 ng/L</p> <p>Area: 5.936e3</p> <p>Modified: (False)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 129.990234 ng/L</p> <p>Area: 6.875e3</p> <p>Modified: (False)</p>	



<p>J5387-FS(3)</p> <p>RT (Exp. RT): 3.32 (3.45) min</p> <p>Calculated Conc: 126.283229 ng/L</p> <p>Area: 3.814e3</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.31 (3.45) min</p> <p>Calculated Conc: 125.635981 ng/L</p> <p>Area: 3.840e3</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 139.192998 ng/L</p> <p>Area: 4.110e3</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 82.029721 ng/L</p> <p>Area: 4.951e3</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 138.907844 ng/L</p> <p>Area: 4.500e3</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 3.34 (3.45) min</p> <p>Calculated Conc: 143.623178 ng/L</p> <p>Area: 6.603e3</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 3.34 (3.45) min</p> <p>Calculated Conc: 88.286517 ng/L</p> <p>Area: 5.617e3</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.45) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 89.324686 ng/L</p> <p>Area: 3.754e3</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 3.32 (3.45) min</p> <p>Calculated Conc: 99.774960 ng/L</p> <p>Area: 4.325e3</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 90.205857 ng/L</p> <p>Area: 6.005e3</p> <p>Modified: (False)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 114.435088 ng/L</p> <p>Area: 4.334e3</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 3.32 (3.45) min</p> <p>Calculated Conc: 60.605412 ng/L</p> <p>Area: 2.847e3</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 3.32 (3.45) min</p> <p>Calculated Conc: 103.406469 ng/L</p> <p>Area: 5.552e3</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.32 (3.45) min</p> <p>Calculated Conc: 101.431524 ng/L</p> <p>Area: 5.733e3</p> <p>Modified: (False)</p>	

**Analyte:** d5-EtFOSAA (589.0 / 419.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

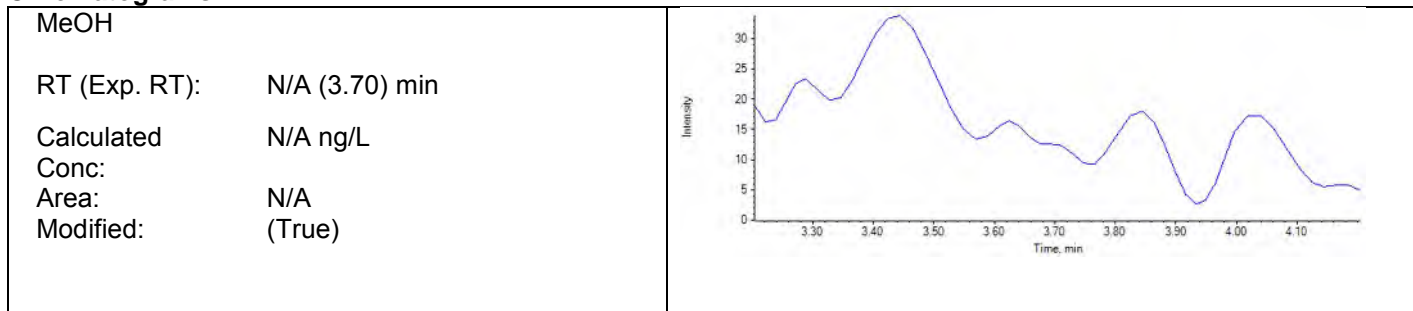
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	7742	3.51	10060	100.00000	119.613388	120
JU05	Standard	3/28/2018 7:57:43 PM	4915	3.51	8431	100.00000	90.634656	91
JU06	Standard	3/28/2018 8:08:31 PM	6548	3.51	9601	100.00000	106.028587	106
JU07	Standard	3/28/2018 8:19:19 PM	5672	3.51	10710	100.00000	82.351074	82
JU08	Standard	3/28/2018 8:30:06 PM	4760	3.51	8102	100.00000	91.332880	91
JU09	Standard	3/28/2018 8:40:53 PM	5060	3.51	10010	100.00000	78.598678	79
JU10	Standard	3/28/2018 8:51:40 PM	5789	3.51	7234	100.00000	124.406994	124
JU11	Standard	3/28/2018 9:02:26 PM	5472	3.50	7902	100.00000	107.665660	108
JU12	Standard	3/28/2018 9:13:13 PM	6645	3.50	10400	100.00000	99.368084	99
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	5767	3.50	9601	100.00000	93.377051	93
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	5121	3.50	9201	100.00000	86.524055	87
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	5908	3.50	10110	100.00000	90.821002	91
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	7212	3.50	9743	100.00000	115.074359	115
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	7009	3.50	8607	100.00000	126.601778	127
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	3982	3.49	4915	100.00000	125.952245	126
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	3147	3.49	4974	100.00000	98.353692	98
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	3603	3.50	4805	100.00000	116.554185	117

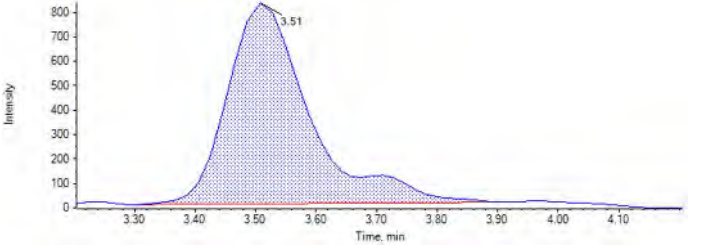
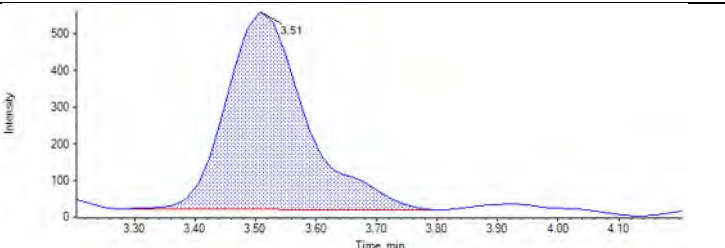
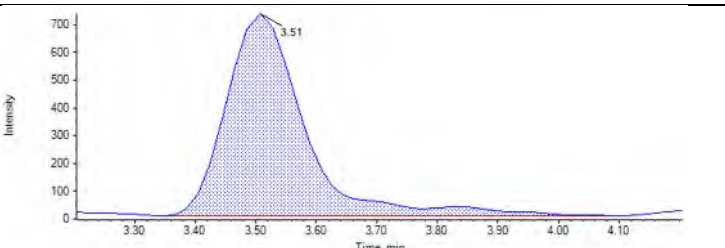
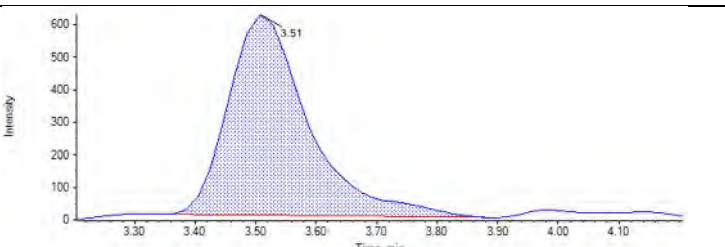
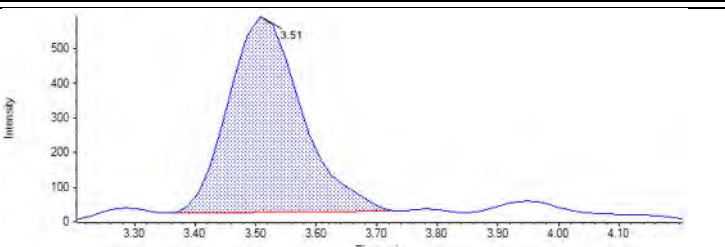
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	4644	3.49	9823	100.00000	73.494186	73
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	4900	3.49	5273	100.00000	144.461001	144
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	7053	3.50	7482	100.00000	146.554433	147
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	6352	3.49	10350	100.00000	95.374042	95
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	3360	3.49	6840	100.00000	76.374389	76
J5394-FS(4)	Quality Control	3/29/2018 12:48:42 AM	3574	3.49	7055	100.00000	78.749696	79
<del>J5394-FS-D(5)</del>	<del>Quality Control</del>	<del>3/29/2018 12:59:28 AM</del>	<del>4929</del>	<del>3.49</del>	<del>10830</del>	<del>100.00000</del>	<del>70.734426</del>	<del>71</del>
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	3181	3.49	6163	100.00000	80.252669	80
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	3139	3.49	7646	100.00000	63.822897	64
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	6718	3.48	8738	100.00000	119.521619	120
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	6344	3.48	9198	100.00000	107.214394	107

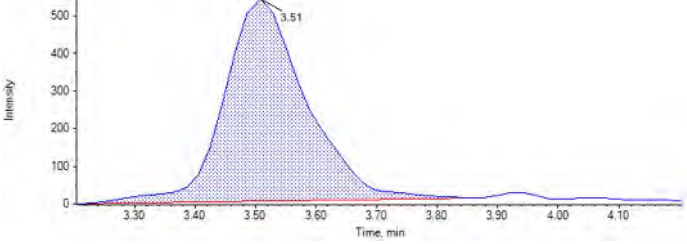
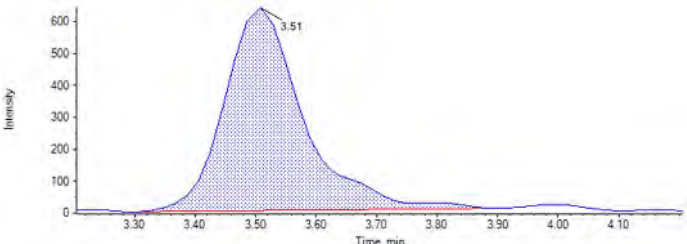
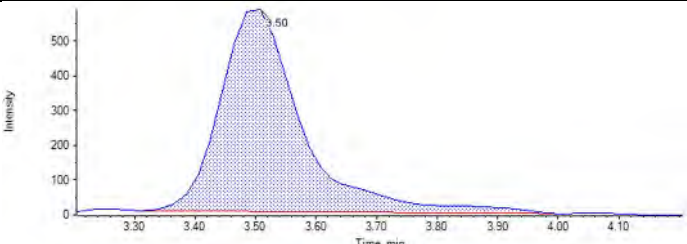
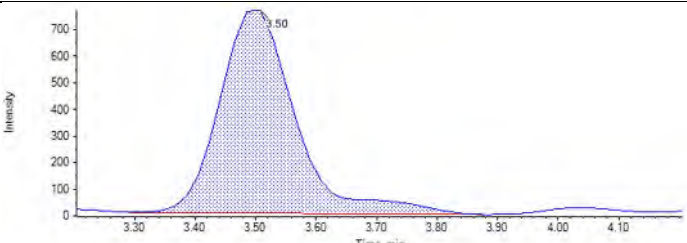
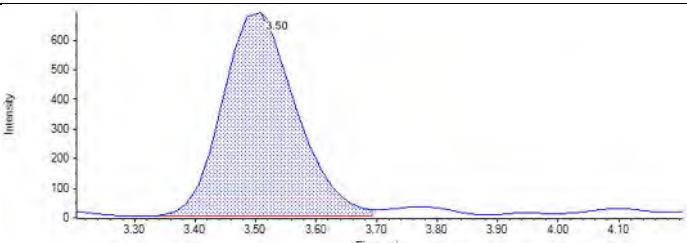
Dilution not needed. DMS 4/6/2018

**Chromatograms:**



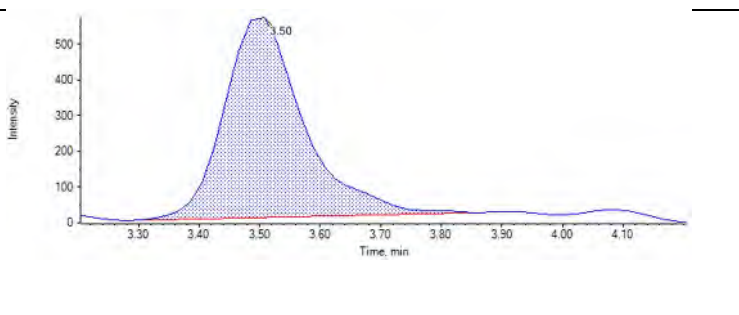


<p>JU04</p> <p>RT (Exp. RT): 3.51 (3.70) min</p> <p>Calculated Conc: 119.613388 ng/L</p> <p>Area: 7.742e3</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.51 (3.70) min</p> <p>Calculated Conc: 90.634656 ng/L</p> <p>Area: 4.915e3</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.51 (3.70) min</p> <p>Calculated Conc: 106.028587 ng/L</p> <p>Area: 6.548e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.51 (3.70) min</p> <p>Calculated Conc: 82.351074 ng/L</p> <p>Area: 5.672e3</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.51 (3.70) min</p> <p>Calculated Conc: 91.332880 ng/L</p> <p>Area: 4.760e3</p> <p>Modified: (False)</p>	

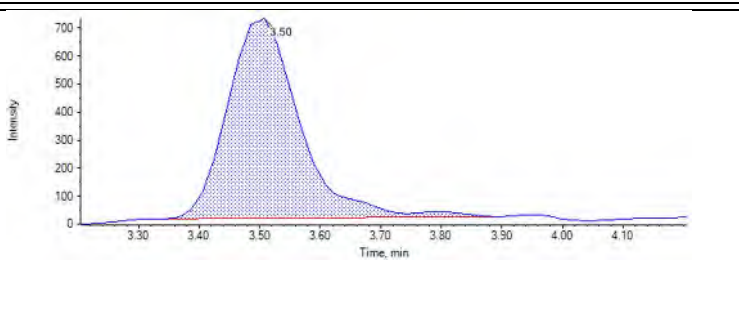
<p>JU09</p> <p>RT (Exp. RT): 3.51 (3.70) min</p> <p>Calculated Conc: 78.598678 ng/L</p> <p>Area: 5.060e3</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.51 (3.70) min</p> <p>Calculated Conc: 124.406994 ng/L</p> <p>Area: 5.789e3</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.50 (3.70) min</p> <p>Calculated Conc: 107.665660 ng/L</p> <p>Area: 5.472e3</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.50 (3.70) min</p> <p>Calculated Conc: 99.368084 ng/L</p> <p>Area: 6.645e3</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.50 (3.70) min</p> <p>Calculated Conc: 93.377051 ng/L</p> <p>Area: 5.767e3</p> <p>Modified: (False)</p>	



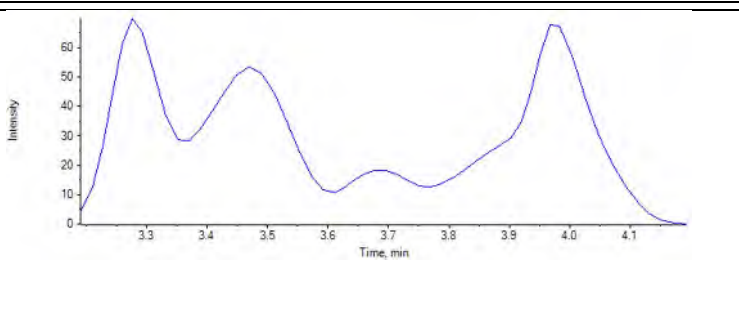
JU13 ICC	
RT (Exp. RT):	3.50 (3.70) min
Calculated Conc:	86.524055 ng/L
Area:	5.121e3
Modified:	(False)



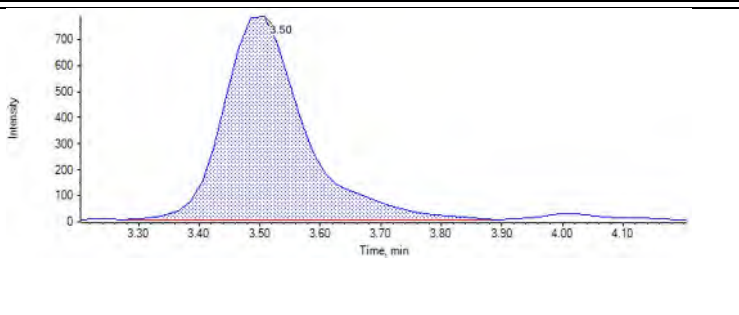
JU38 Branch	
RT (Exp. RT):	3.50 (3.70) min
Calculated Conc:	90.821002 ng/L
Area:	5.908e3
Modified:	(False)



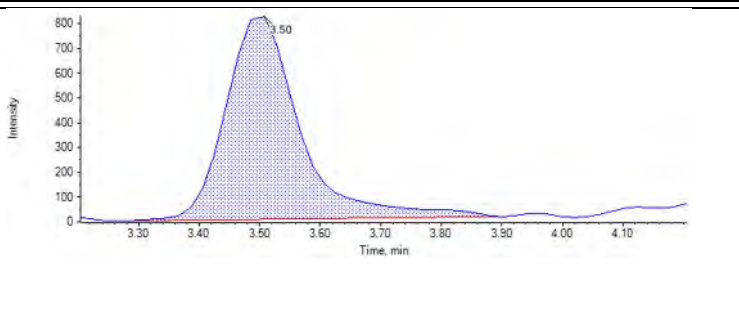
MeOH	
RT (Exp. RT):	N/A (3.70) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



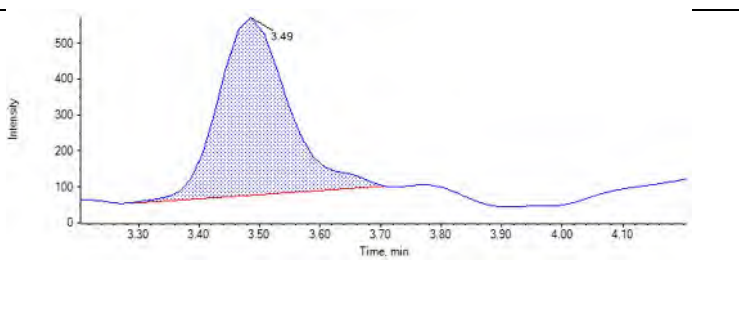
CQ320PB-FS(3)	
RT (Exp. RT):	3.50 (3.70) min
Calculated Conc:	115.074359 ng/L
Area:	7.212e3
Modified:	(False)



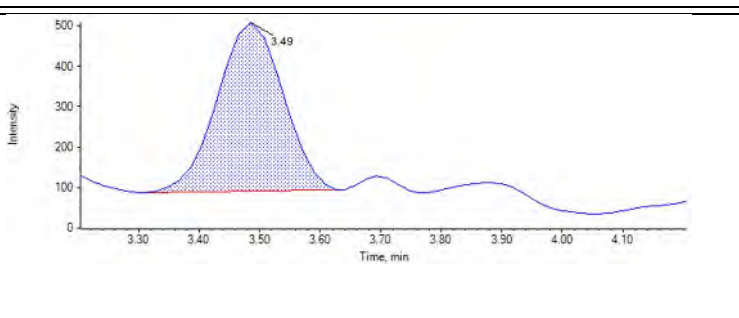
CQ321LCS-FS(3)	
RT (Exp. RT):	3.50 (3.70) min
Calculated Conc:	126.601778 ng/L
Area:	7.009e3
Modified:	(False)



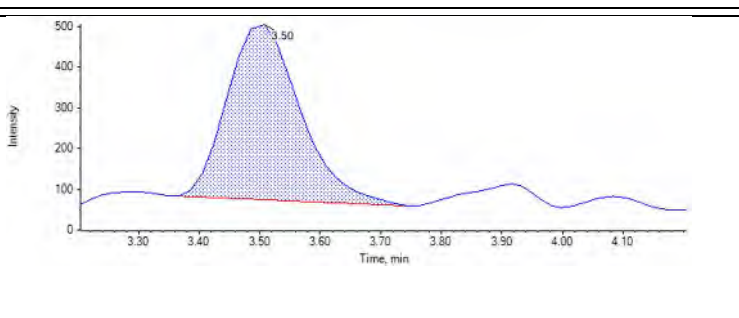
J5387-FS(3)	
RT (Exp. RT):	3.49 (3.70) min
Calculated Conc:	125.952245 ng/L
Area:	3.982e3
Modified:	(True)



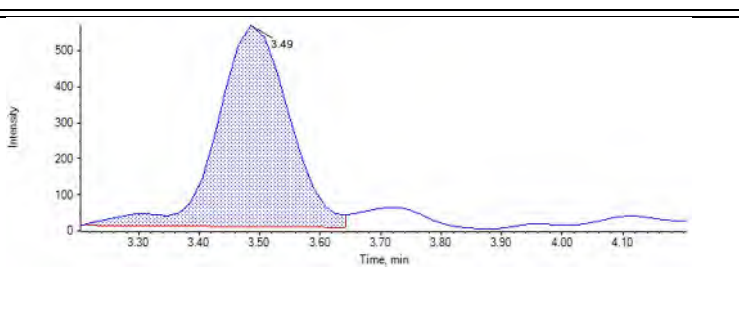
J5387MS-FS(3)	
RT (Exp. RT):	3.49 (3.70) min
Calculated Conc:	98.353692 ng/L
Area:	3.147e3
Modified:	(False)



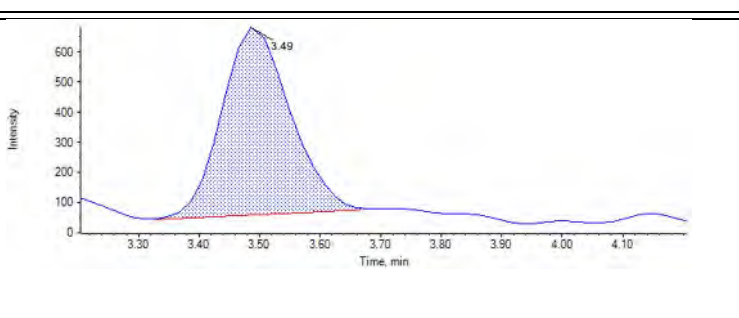
J5387MSD-FS(3)	
RT (Exp. RT):	3.50 (3.70) min
Calculated Conc:	116.554185 ng/L
Area:	3.603e3
Modified:	(False)



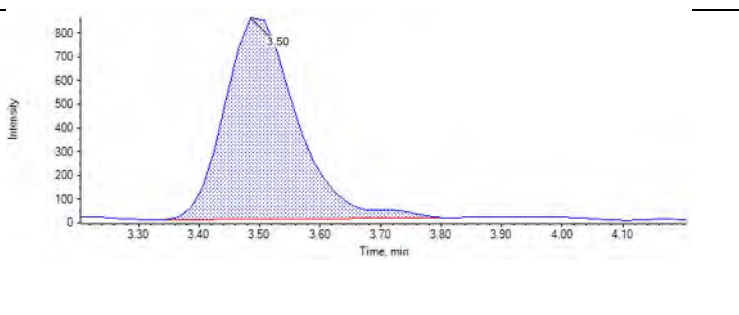
J5388-FS(3)	
RT (Exp. RT):	3.49 (3.70) min
Calculated Conc:	73.494186 ng/L
Area:	4.644e3
Modified:	(False)



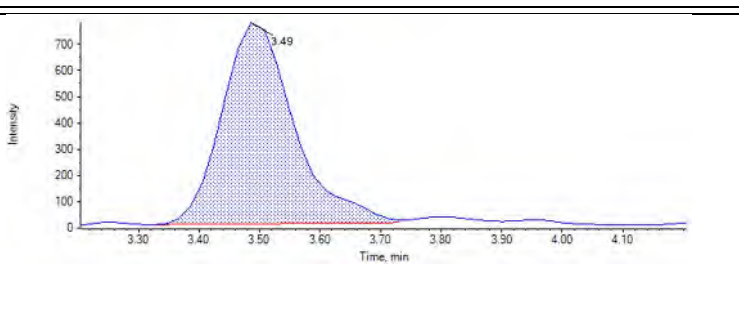
J5389-FS(3)	
RT (Exp. RT):	3.49 (3.70) min
Calculated Conc:	144.461001 ng/L
Area:	4.900e3
Modified:	(True)



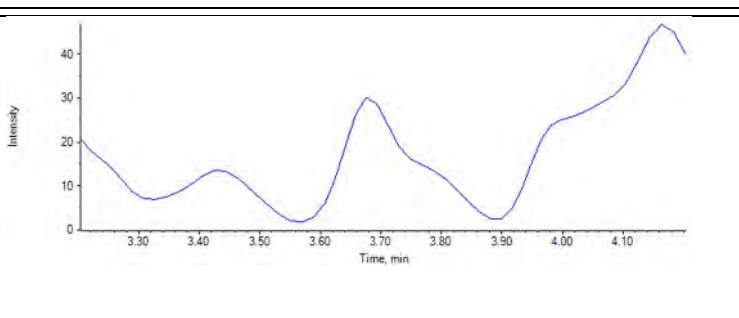
J5390-FS(3)	
RT (Exp. RT):	3.50 (3.70) min
Calculated Conc:	146.554433 ng/L
Area:	7.052e3
Modified:	(False)



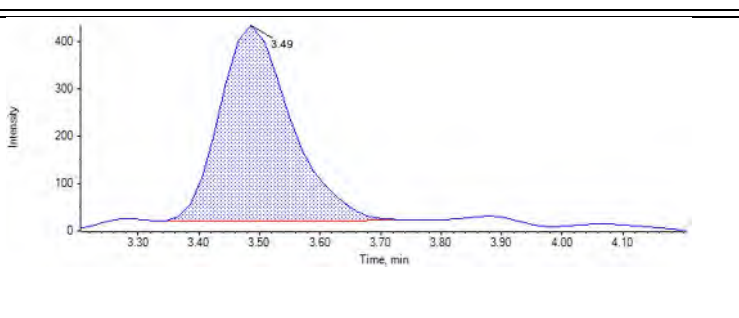
JU09 CCV	
RT (Exp. RT):	3.49 (3.70) min
Calculated Conc:	95.374042 ng/L
Area:	6.352e3
Modified:	(False)



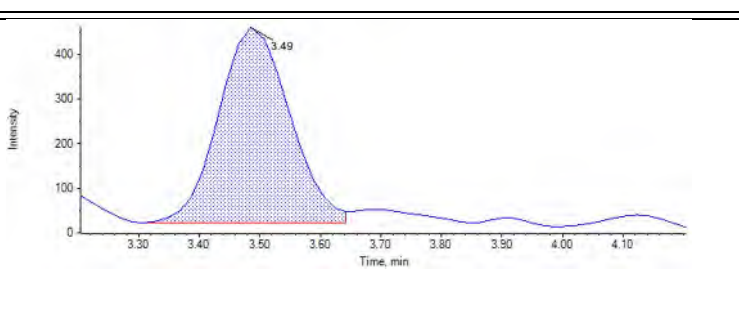
MeOH	
RT (Exp. RT):	N/A (3.70) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)

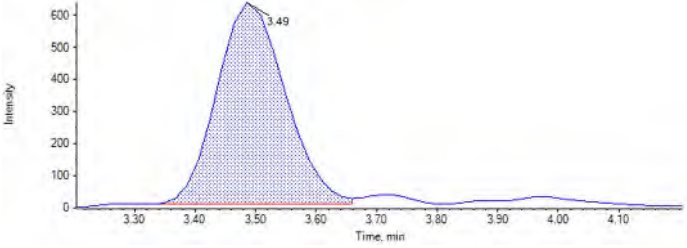
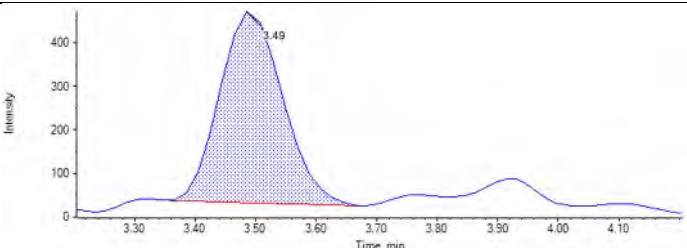
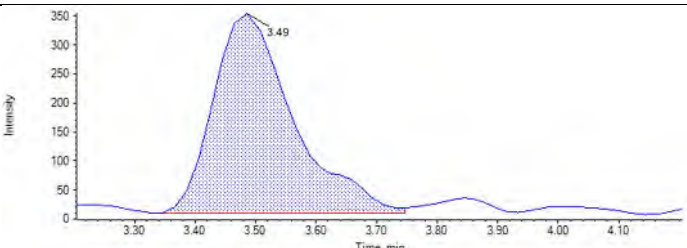
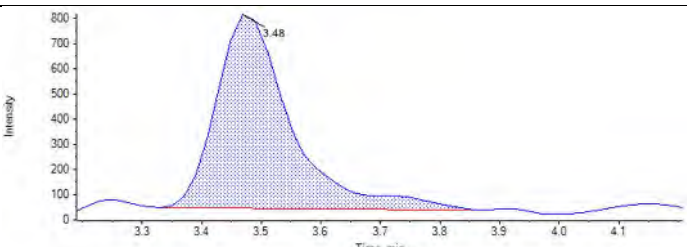
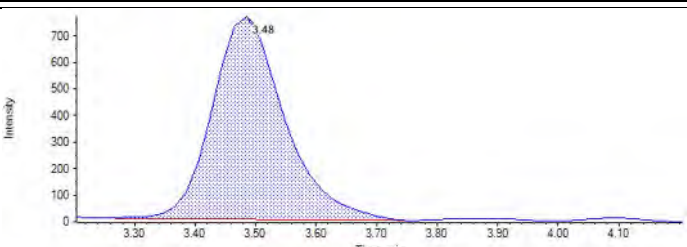


J5392-FS(3)	
RT (Exp. RT):	3.49 (3.70) min
Calculated Conc:	76.374389 ng/L
Area:	3.360e3
Modified:	(False)



J5394-FS(4)	
RT (Exp. RT):	3.49 (3.70) min
Calculated Conc:	78.749696 ng/L
Area:	3.574e3
Modified:	(False)



<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 3.49 (3.70) min</p> <p>Calculated Conc: 70.734426 ng/L</p> <p>Area: 4.929e3</p> <p>Modified: (False)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.70) min</p> <p>Calculated Conc: 80.252669 ng/L</p> <p>Area: 3.181e3</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.70) min</p> <p>Calculated Conc: 63.822897 ng/L</p> <p>Area: 3.139e3</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 3.48 (3.70) min</p> <p>Calculated Conc: 119.521619 ng/L</p> <p>Area: 6.718e3</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.48 (3.70) min</p> <p>Calculated Conc: 107.214394 ng/L</p> <p>Area: 6.344e3</p> <p>Modified: (False)</p>	

**Analyte:** 13C5-PFHxA (318.0 / 273.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

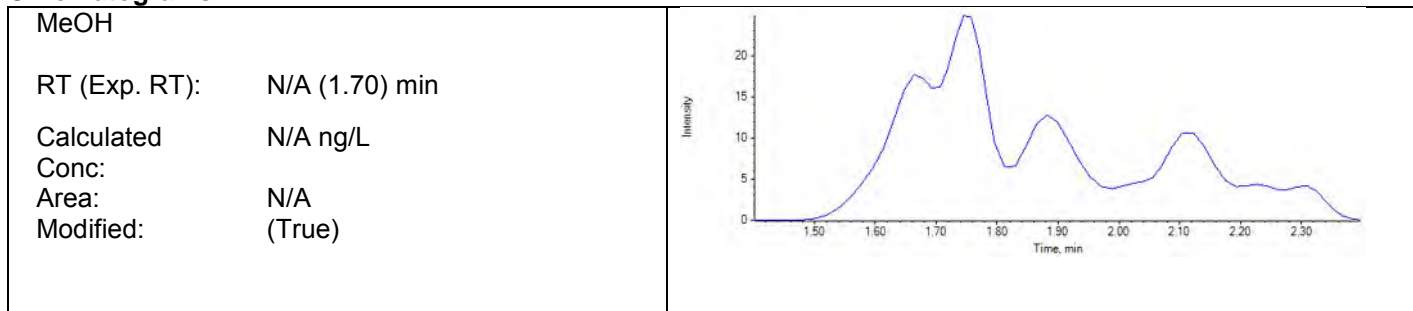
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	26380	1.70	28110	100.00000	105.661440	106
JU05	Standard	3/28/2018 7:57:43 PM	20490	1.71	23700	100.00000	97.321793	97
JU06	Standard	3/28/2018 8:08:31 PM	22020	1.71	25050	100.00000	98.982541	99
JU07	Standard	3/28/2018 8:19:19 PM	23110	1.70	30300	100.00000	85.872129	86
JU08	Standard	3/28/2018 8:30:06 PM	23570	1.71	25080	100.00000	105.823393	106
JU09	Standard	3/28/2018 8:40:53 PM	23600	1.70	26460	100.00000	100.398256	100
JU10	Standard	3/28/2018 8:51:40 PM	21960	1.70	26410	100.00000	93.604970	94
JU11	Standard	3/28/2018 9:02:26 PM	22520	1.70	26170	100.00000	96.906434	97
JU12	Standard	3/28/2018 9:13:13 PM	34860	1.70	34000	100.00000	115.429044	115
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	24230	1.70	31350	100.00000	86.989760	87
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	20340	1.70	25470	100.00000	89.881750	90
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	25490	1.69	29970	100.00000	95.765723	96
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	28710	1.69	31470	100.00000	102.720605	103
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	26680	1.70	30570	100.00000	98.264682	98
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	8903	1.65	18260	100.00000	54.895033	55
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	10700	1.66	18400	100.00000	65.456713	65
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	9280	1.66	19240	100.00000	54.294340	54

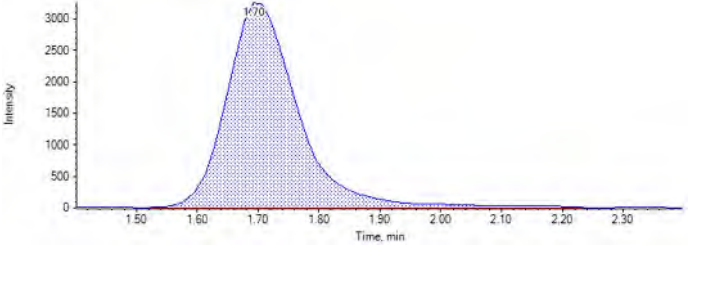
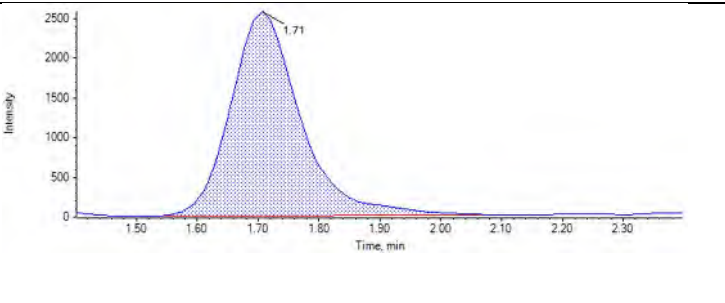
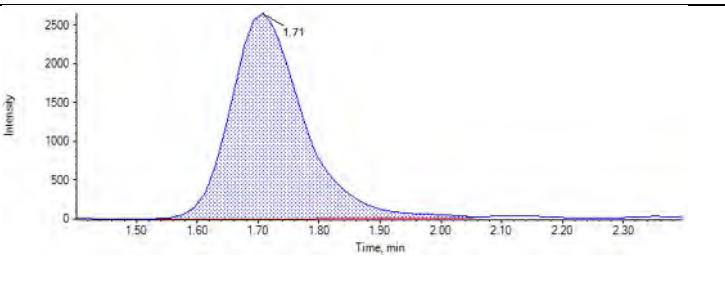
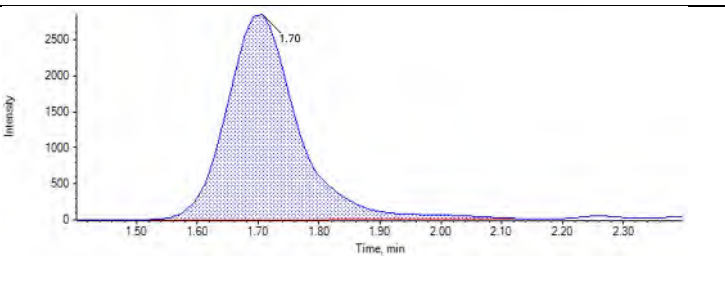
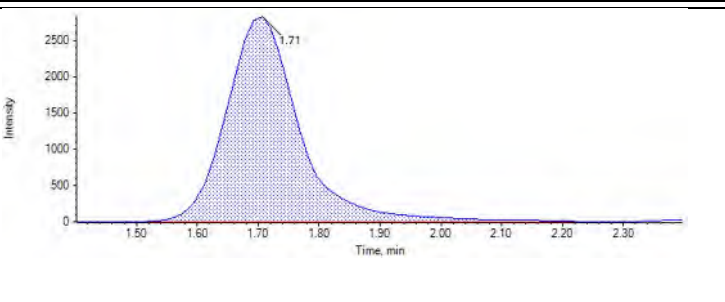


Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	27880	1.68	31480	100.00000	99.696604	100
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	21900	1.69	22510	100.00000	109.526481	110
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	31110	1.69	30610	100.00000	114.430259	114
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	34120	1.69	30300	100.00000	126.784755	127
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	25840	1.69	24650	100.00000	118.026982	118
J5394-FS(4)	Quality Control	3/29/2018 12:48:42 AM	32700	1.69	68540	100.00000	53.708733	54
<del>J5394-FS-D(5)</del>	<del>Quality Control</del>	<del>3/29/2018 12:59:28 AM</del>	<del>33950</del>	<del>1.68</del>	<del>28170</del>	<del>100.00000</del>	<del>135.709672</del>	<del>136</del>
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	17300	1.69	23950	100.00000	81.335791	81
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	28190	1.69	28560	100.00000	111.109781	111
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	35380	1.67	32410	100.00000	122.893095	123
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	33030	1.69	31930	100.00000	116.446364	116

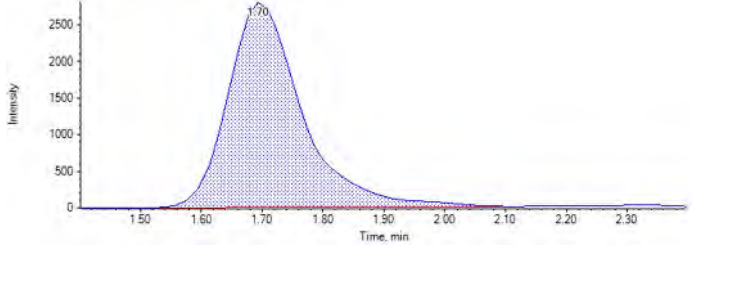
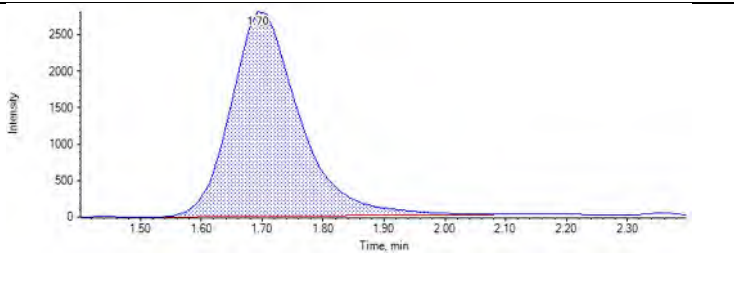
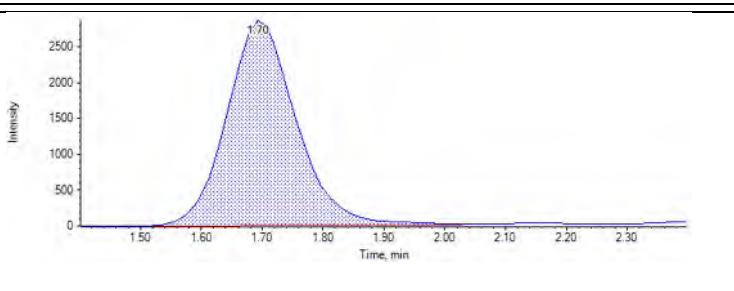
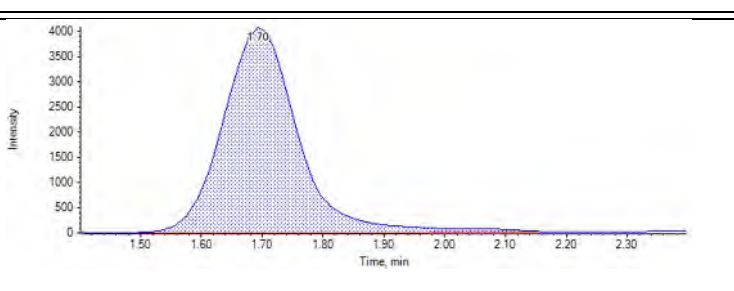
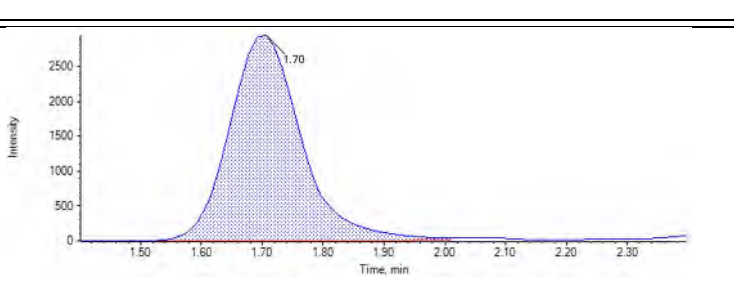
Dilution not needed. DMS 4/6/2018

**Chromatograms:**

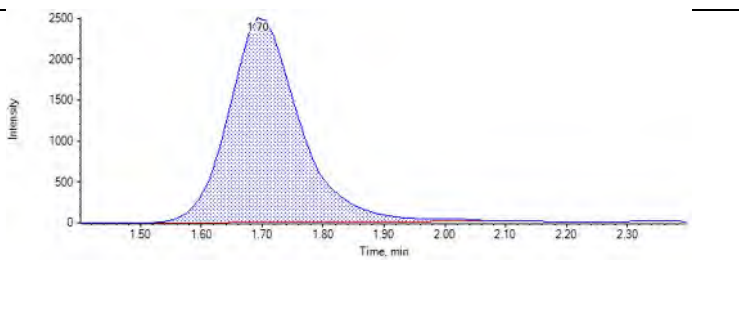


<p>JU04</p> <p>RT (Exp. RT): 1.70 (1.70) min</p> <p>Calculated Conc: 105.661440 ng/L</p> <p>Area: 2.638e4</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.71 (1.70) min</p> <p>Calculated Conc: 97.321793 ng/L</p> <p>Area: 2.049e4</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.71 (1.70) min</p> <p>Calculated Conc: 98.982541 ng/L</p> <p>Area: 2.202e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 1.70 (1.70) min</p> <p>Calculated Conc: 85.872129 ng/L</p> <p>Area: 2.311e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.71 (1.70) min</p> <p>Calculated Conc: 105.823393 ng/L</p> <p>Area: 2.357e4</p> <p>Modified: (False)</p>	

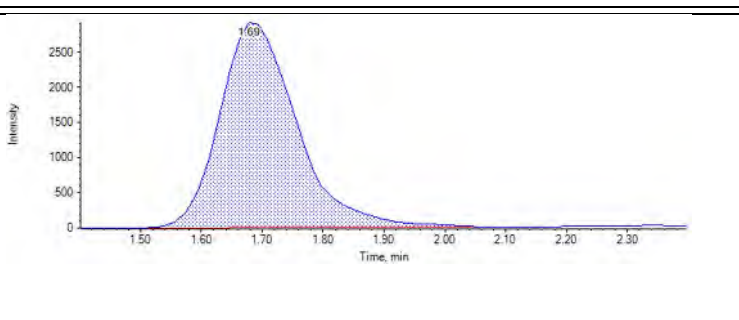


<p>JU09</p> <p>RT (Exp. RT): 1.70 (1.70) min</p> <p>Calculated Conc: 100.398256 ng/L</p> <p>Area: 2.360e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.70 (1.70) min</p> <p>Calculated Conc: 93.604970 ng/L</p> <p>Area: 2.196e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.70 (1.70) min</p> <p>Calculated Conc: 96.906434 ng/L</p> <p>Area: 2.252e4</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 1.70 (1.70) min</p> <p>Calculated Conc: 115.429044 ng/L</p> <p>Area: 3.486e4</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.70 (1.70) min</p> <p>Calculated Conc: 86.989760 ng/L</p> <p>Area: 2.423e4</p> <p>Modified: (False)</p>	

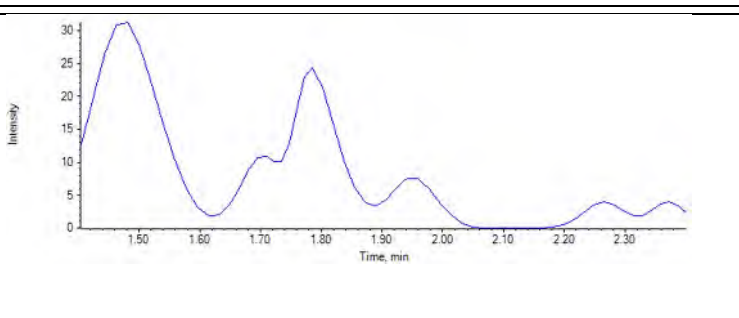
JU13 ICC	
RT (Exp. RT):	1.70 (1.70) min
Calculated Conc:	89.881750 ng/L
Area:	2.034e4
Modified:	(False)



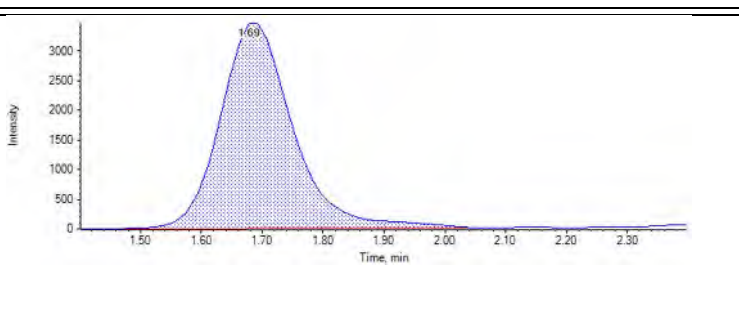
JU38 Branch	
RT (Exp. RT):	1.69 (1.70) min
Calculated Conc:	95.765723 ng/L
Area:	2.549e4
Modified:	(False)



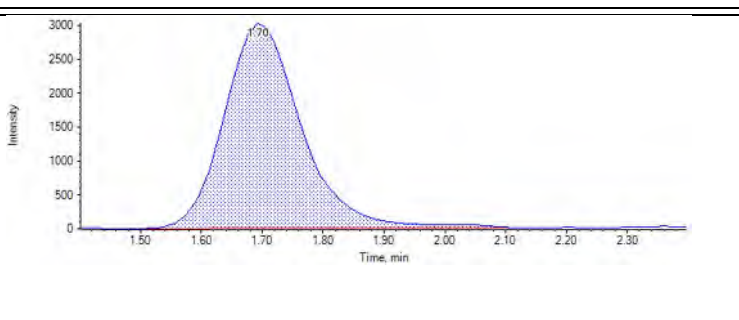
MeOH	
RT (Exp. RT):	N/A (1.70) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)

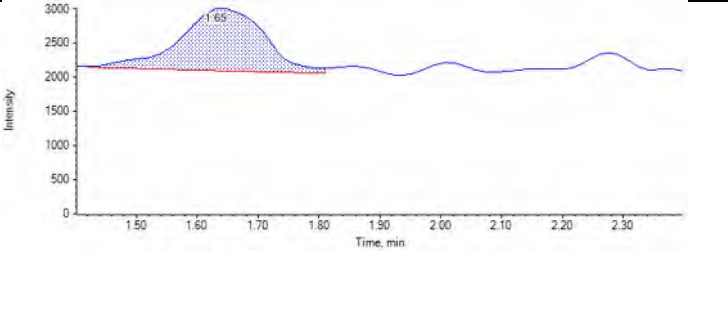
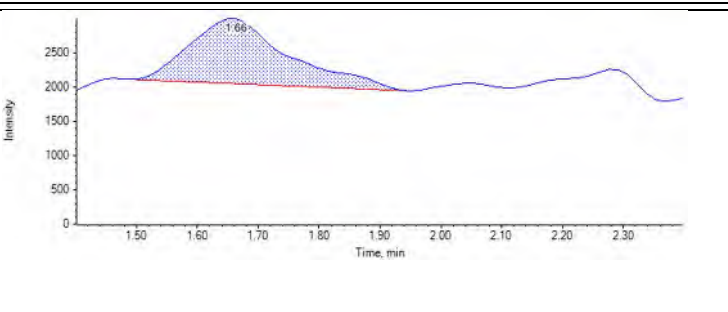
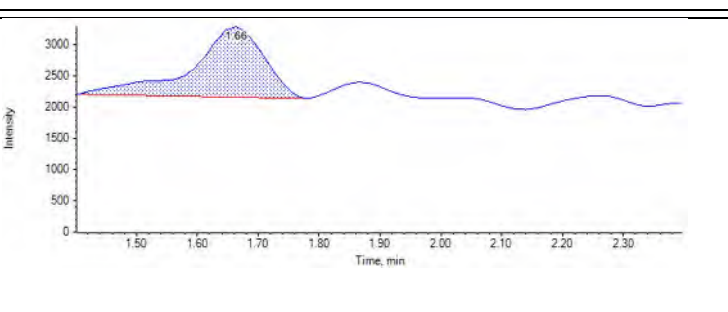
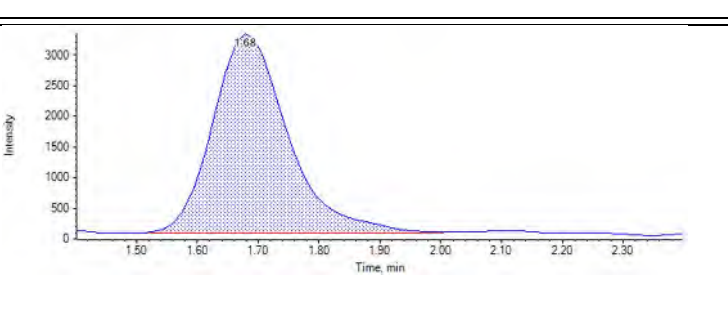
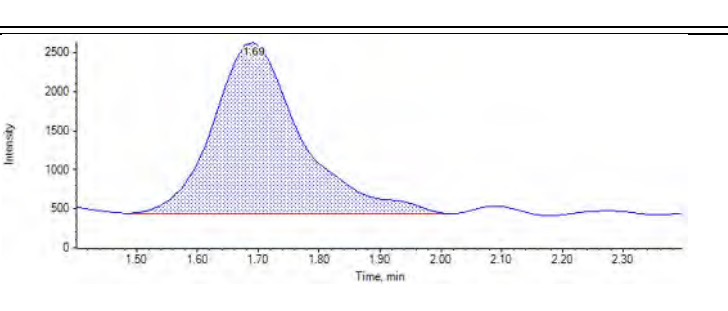


CQ320PB-FS(3)	
RT (Exp. RT):	1.69 (1.70) min
Calculated Conc:	102.720605 ng/L
Area:	2.871e4
Modified:	(False)

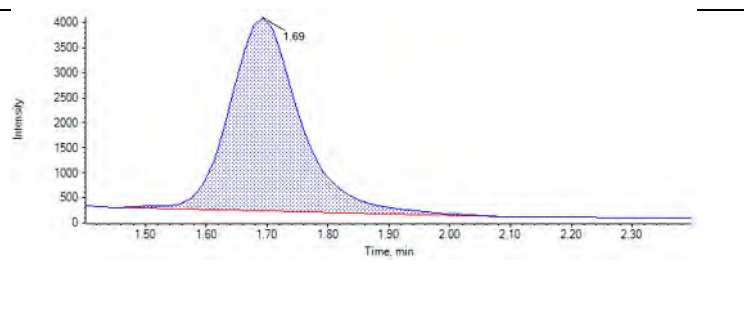


CQ321LCS-FS(3)	
RT (Exp. RT):	1.70 (1.70) min
Calculated Conc:	98.264682 ng/L
Area:	2.668e4
Modified:	(False)

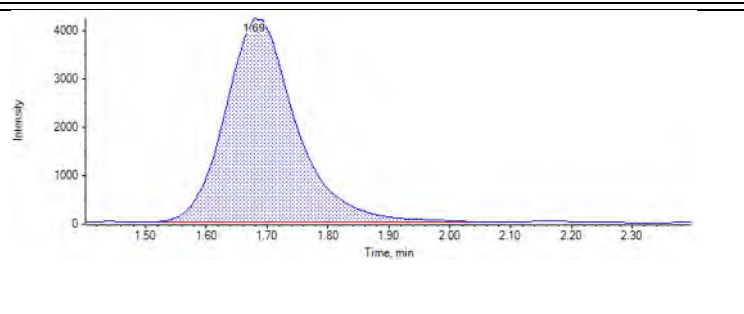


<p>J5387-FS(3)</p> <p>RT (Exp. RT): 1.65 (1.70) min</p> <p>Calculated Conc: 54.895033 ng/L</p> <p>Area: 8.903e3</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 1.66 (1.70) min</p> <p>Calculated Conc: 65.456713 ng/L</p> <p>Area: 1.070e4</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 1.66 (1.70) min</p> <p>Calculated Conc: 54.294340 ng/L</p> <p>Area: 9.280e3</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 1.68 (1.70) min</p> <p>Calculated Conc: 99.696604 ng/L</p> <p>Area: 2.788e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 109.526481 ng/L</p> <p>Area: 2.190e4</p> <p>Modified: (False)</p>	

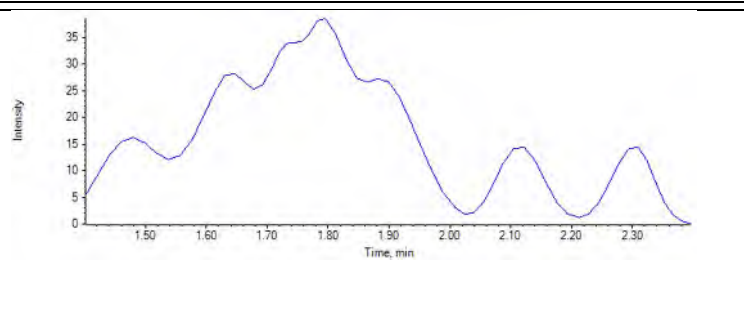
J5390-FS(3)  
 RT (Exp. RT): 1.69 (1.70) min  
 Calculated Conc: 114.430259 ng/L  
 Area: 3.111e4  
 Modified: (False)



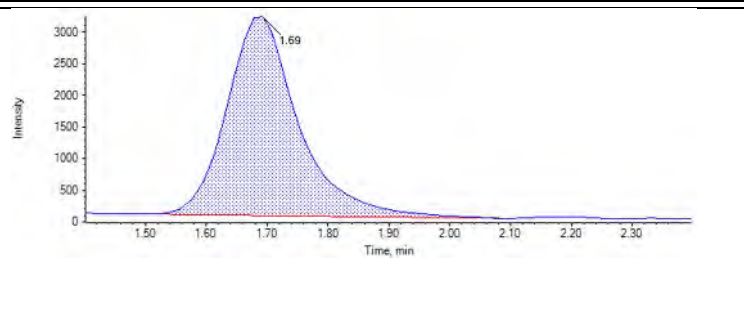
JU09 CCV  
 RT (Exp. RT): 1.69 (1.70) min  
 Calculated Conc: 126.784755 ng/L  
 Area: 3.412e4  
 Modified: (False)



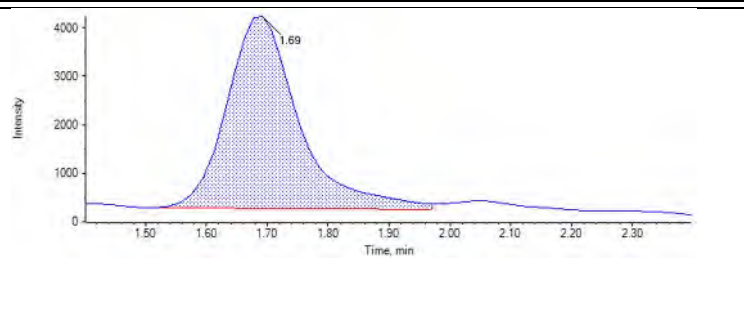
MeOH  
 RT (Exp. RT): N/A (1.70) min  
 Calculated Conc: N/A ng/L  
 Area: N/A  
 Modified: (True)



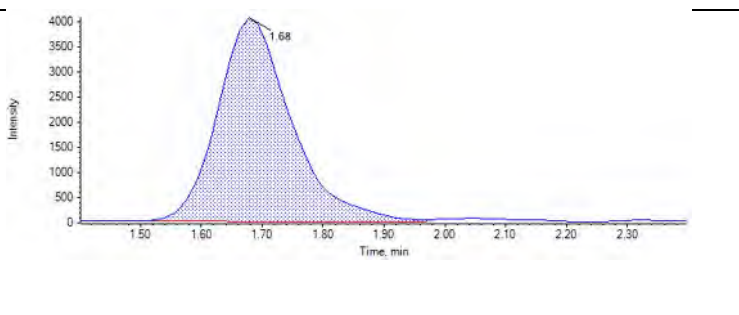
J5392-FS(3)  
 RT (Exp. RT): 1.69 (1.70) min  
 Calculated Conc: 118.026982 ng/L  
 Area: 2.584e4  
 Modified: (False)



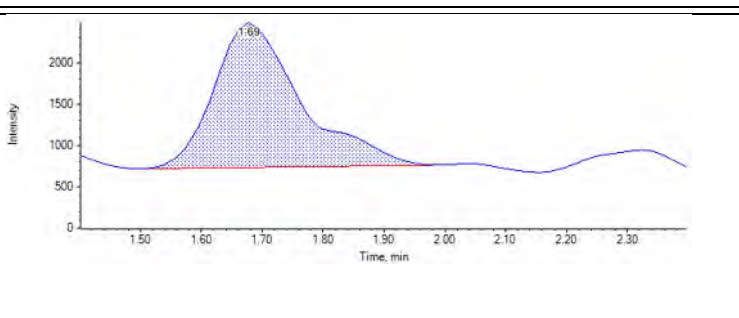
J5394-FS(4)  
 RT (Exp. RT): 1.69 (1.70) min  
 Calculated Conc: 53.708733 ng/L  
 Area: 3.270e4  
 Modified: (False)



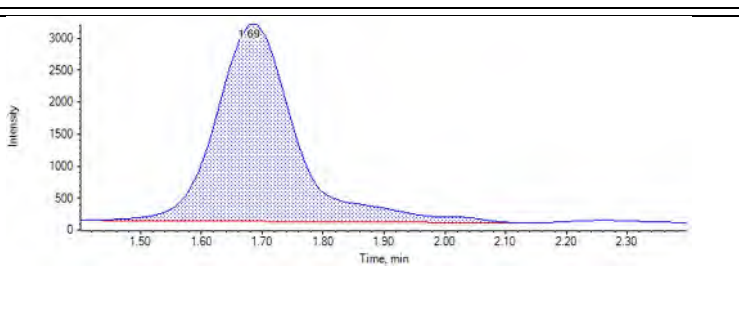
J5394-FS-D(5)  
 RT (Exp. RT): 1.68 (1.70) min  
 Calculated Conc: 135.709672 ng/L  
 Area: 3.395e4  
 Modified: (False)



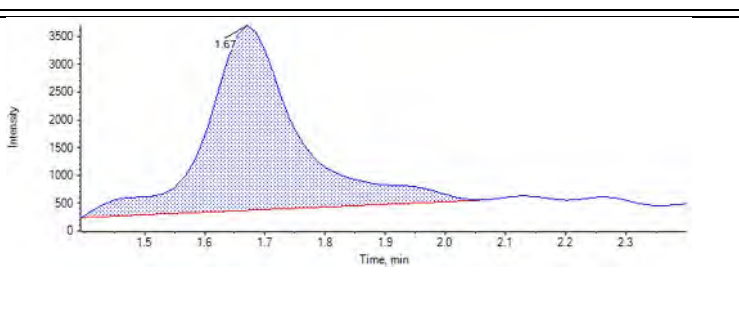
J5395-FS(3)  
 RT (Exp. RT): 1.69 (1.70) min  
 Calculated Conc: 81.335791 ng/L  
 Area: 1.730e4  
 Modified: (False)



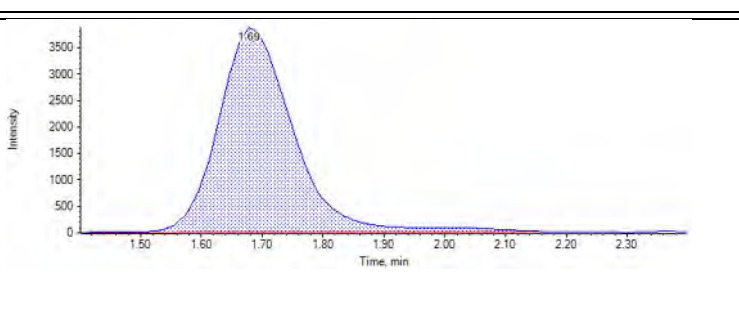
J5396-FS(3)  
 RT (Exp. RT): 1.69 (1.70) min  
 Calculated Conc: 111.109781 ng/L  
 Area: 2.819e4  
 Modified: (False)



J5397-FS(3)  
 RT (Exp. RT): 1.67 (1.70) min  
 Calculated Conc: 122.893095 ng/L  
 Area: 3.538e4  
 Modified: (False)



JU10 CCV  
 RT (Exp. RT): 1.69 (1.70) min  
 Calculated Conc: 116.446364 ng/L  
 Area: 3.303e4  
 Modified: (False)





**Analyte:** 13C4-PFHpA (367.0 / 322.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

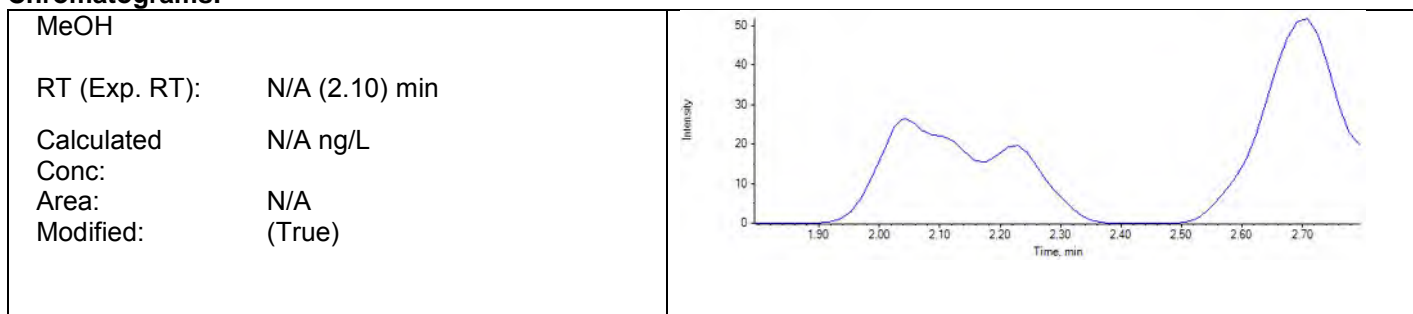
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	25360	2.07	28110	100.00000	103.458518	103
JU05	Standard	3/28/2018 7:57:43 PM	22210	2.08	23700	100.00000	107.441692	107
JU06	Standard	3/28/2018 8:08:31 PM	22820	2.08	25050	100.00000	104.458459	104
JU07	Standard	3/28/2018 8:19:19 PM	25510	2.07	30300	100.00000	96.552110	97
JU08	Standard	3/28/2018 8:30:06 PM	20570	2.07	25080	100.00000	94.059209	94
JU09	Standard	3/28/2018 8:40:53 PM	24600	2.07	26460	100.00000	106.606651	107
JU10	Standard	3/28/2018 8:51:40 PM	22010	2.07	26410	100.00000	95.581062	96
JU11	Standard	3/28/2018 9:02:26 PM	20470	2.07	26170	100.00000	89.703122	90
JU12	Standard	3/28/2018 9:13:13 PM	30290	2.06	34000	100.00000	102.139178	102
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	25320	2.06	31350	100.00000	92.602182	93
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	21120	2.06	25470	100.00000	95.088706	95
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	24760	2.06	29970	100.00000	94.740180	95
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	25600	2.06	31470	100.00000	93.304790	93
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	23690	2.07	30570	100.00000	88.862192	89
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	17120	2.03	18260	100.00000	107.518555	108
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	14270	2.03	18400	100.00000	88.910738	89
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	16280	2.03	19240	100.00000	97.016206	97

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	23420	2.06	31480	100.00000	85.316240	85
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	23790	2.06	22510	100.00000	121.180163	121
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	33280	2.06	30610	100.00000	124.689317	125
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	27210	2.06	30300	100.00000	102.962315	103
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	22210	2.06	24650	100.00000	103.327457	103
J5394-FS(4)	Quality Control	3/29/2018 12:48:42 AM	30400	2.06	68540	100.00000	50.868958	51
<del>J5394-FS-D(5)</del>	<del>Quality Control</del>	<del>3/29/2018 12:59:28 AM</del>	<del>29500</del>	<del>2.06</del>	<del>28170</del>	<del>100.00000</del>	<del>120.080374</del>	<del>120</del>
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	21390	2.05	23950	100.00000	102.392344	102
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	22310	2.05	28560	100.00000	89.590650	90
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	28760	2.04	32410	100.00000	101.749191	102
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	27580	2.06	31930	100.00000	99.043527	99

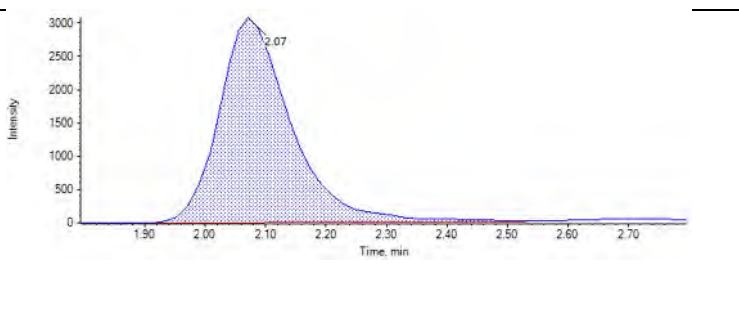
Dilution not needed. DMS 4/6/2018

**Chromatograms:**

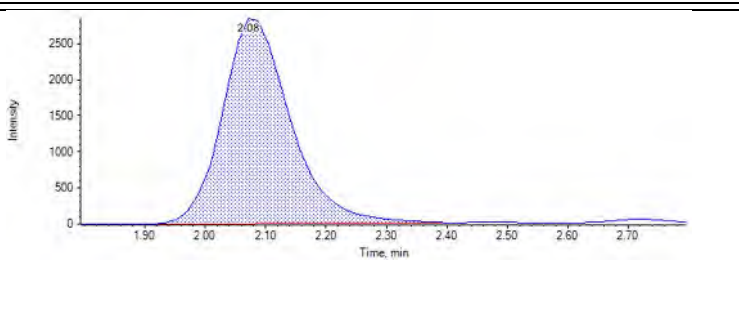




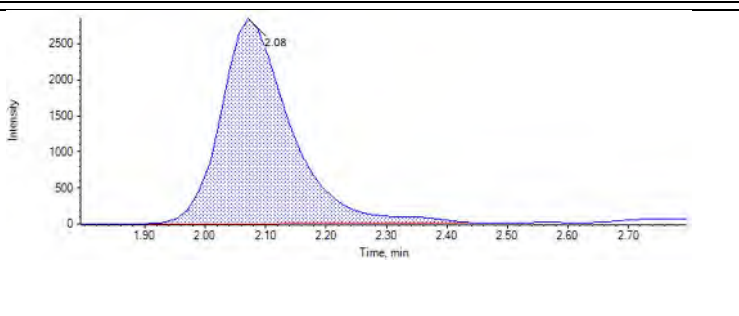
JU04  
 RT (Exp. RT): 2.07 (2.10) min  
 Calculated Conc: 103.458518 ng/L  
 Area: 2.536e4  
 Modified: (False)



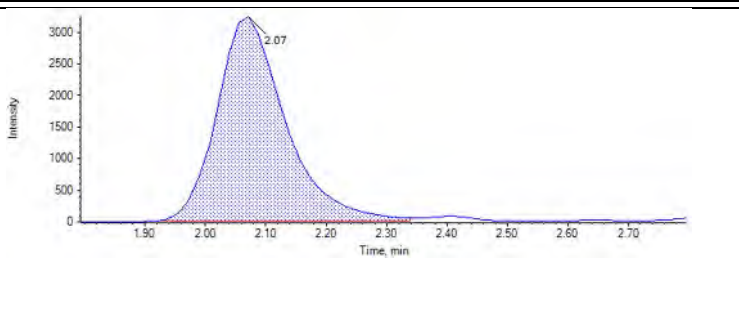
JU05  
 RT (Exp. RT): 2.08 (2.10) min  
 Calculated Conc: 107.441692 ng/L  
 Area: 2.221e4  
 Modified: (False)



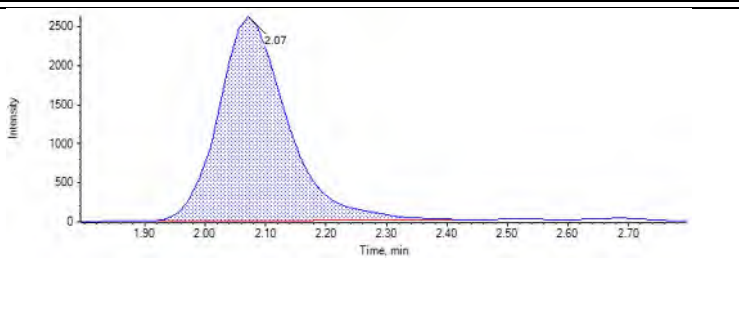
JU06  
 RT (Exp. RT): 2.08 (2.10) min  
 Calculated Conc: 104.458459 ng/L  
 Area: 2.282e4  
 Modified: (False)



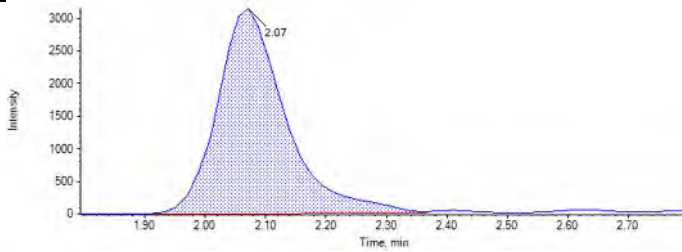
JU07  
 RT (Exp. RT): 2.07 (2.10) min  
 Calculated Conc: 96.552110 ng/L  
 Area: 2.551e4  
 Modified: (False)



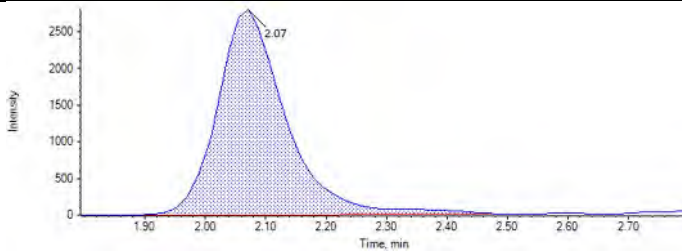
JU08  
 RT (Exp. RT): 2.07 (2.10) min  
 Calculated Conc: 94.059209 ng/L  
 Area: 2.057e4  
 Modified: (False)



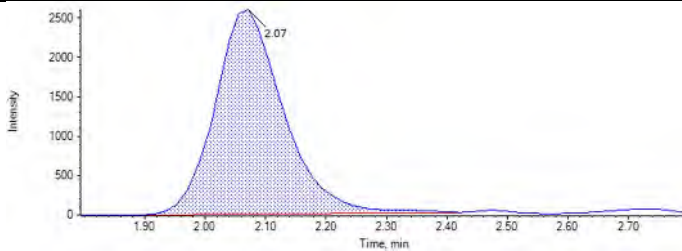
JU09  
RT (Exp. RT): 2.07 (2.10) min  
Calculated Conc: 106.606651 ng/L  
Area: 2.460e4  
Modified: (False)



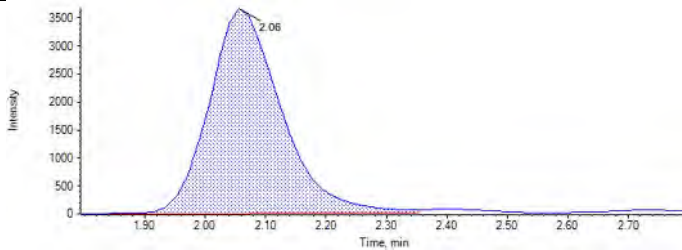
JU10  
RT (Exp. RT): 2.07 (2.10) min  
Calculated Conc: 95.581062 ng/L  
Area: 2.201e4  
Modified: (False)



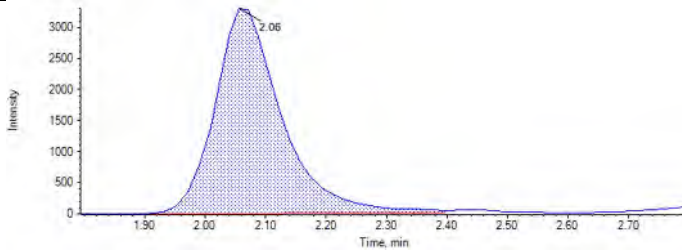
JU11  
RT (Exp. RT): 2.07 (2.10) min  
Calculated Conc: 89.703122 ng/L  
Area: 2.047e4  
Modified: (False)



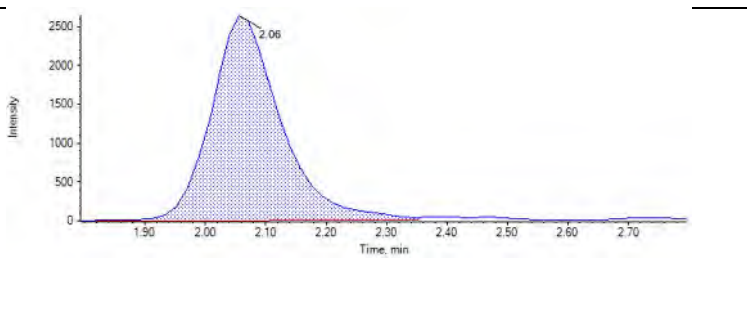
JU12  
RT (Exp. RT): 2.06 (2.10) min  
Calculated Conc: 102.139178 ng/L  
Area: 3.029e4  
Modified: (False)



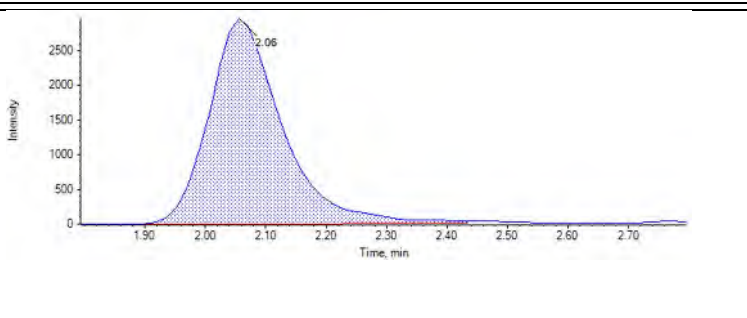
JP83 IB  
RT (Exp. RT): 2.06 (2.10) min  
Calculated Conc: 92.602182 ng/L  
Area: 2.532e4  
Modified: (False)



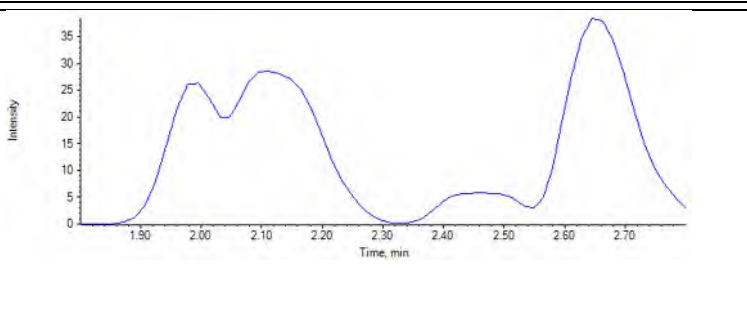
JU13 ICC	
RT (Exp. RT):	2.06 (2.10) min
Calculated Conc:	95.088706 ng/L
Area:	2.112e4
Modified:	(False)



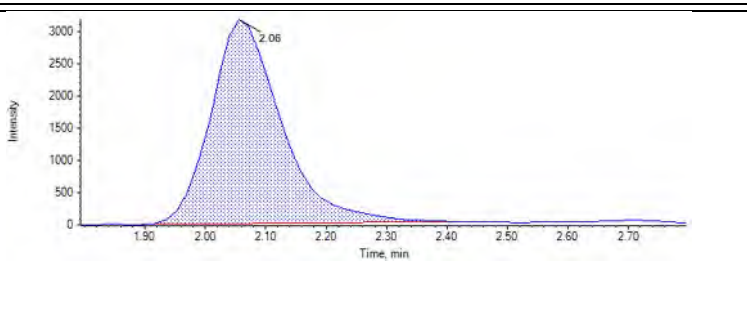
JU38 Branch	
RT (Exp. RT):	2.06 (2.10) min
Calculated Conc:	94.740180 ng/L
Area:	2.476e4
Modified:	(False)



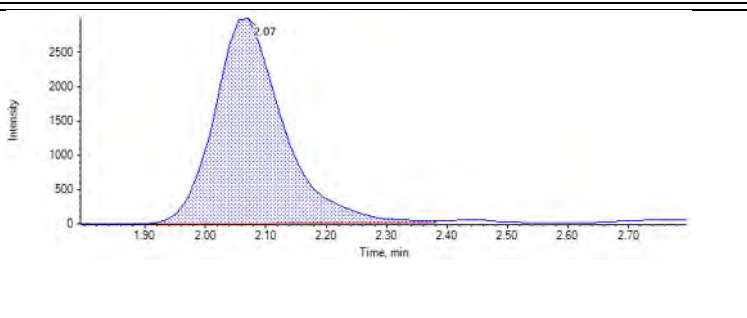
MeOH	
RT (Exp. RT):	N/A (2.10) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



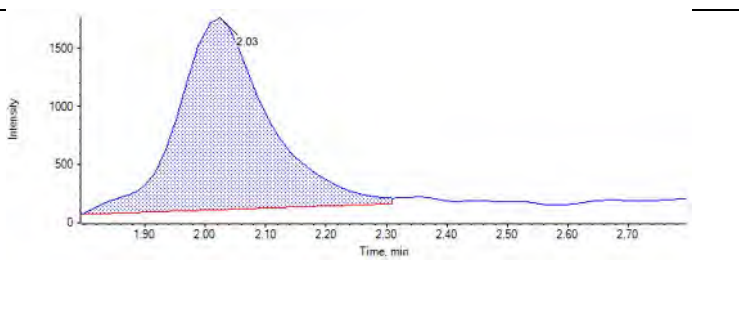
CQ320PB-FS(3)	
RT (Exp. RT):	2.06 (2.10) min
Calculated Conc:	93.304790 ng/L
Area:	2.560e4
Modified:	(False)



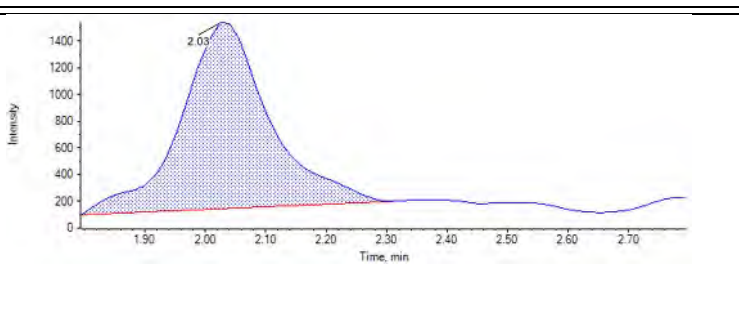
CQ321LCS-FS(3)	
RT (Exp. RT):	2.07 (2.10) min
Calculated Conc:	88.862192 ng/L
Area:	2.369e4
Modified:	(False)



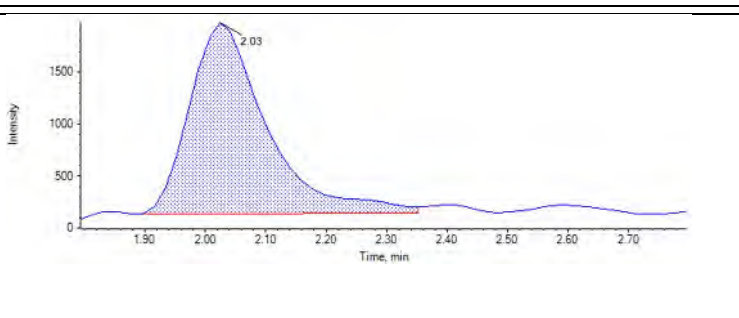
J5387-FS(3)	
RT (Exp. RT):	2.03 (2.10) min
Calculated Conc:	107.518555 ng/L
Area:	1.712e4
Modified:	(False)



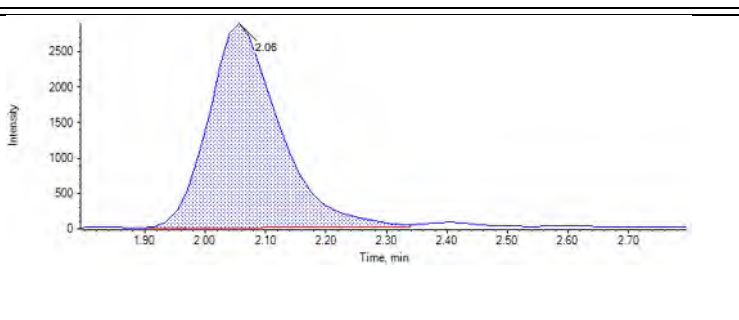
J5387MS-FS(3)	
RT (Exp. RT):	2.03 (2.10) min
Calculated Conc:	88.910738 ng/L
Area:	1.427e4
Modified:	(False)



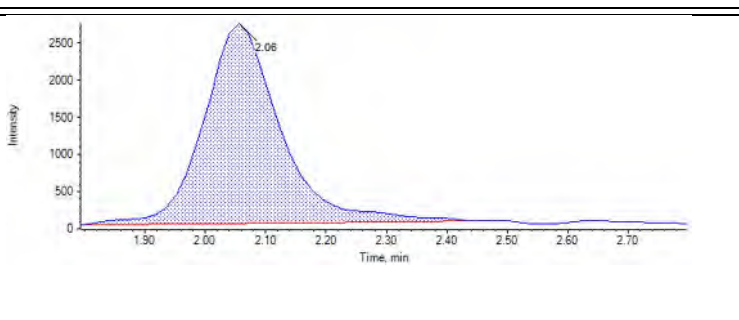
J5387MSD-FS(3)	
RT (Exp. RT):	2.03 (2.10) min
Calculated Conc:	97.016206 ng/L
Area:	1.628e4
Modified:	(False)



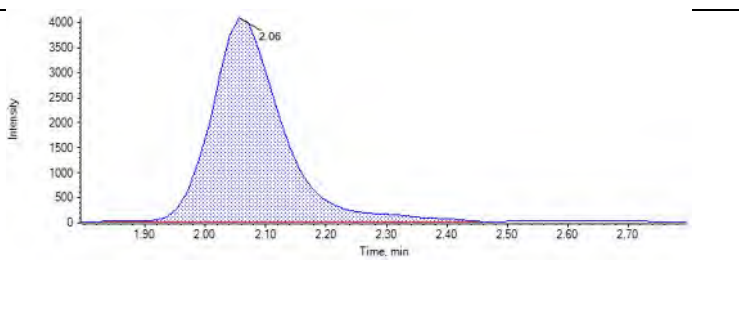
J5388-FS(3)	
RT (Exp. RT):	2.06 (2.10) min
Calculated Conc:	85.316240 ng/L
Area:	2.342e4
Modified:	(False)



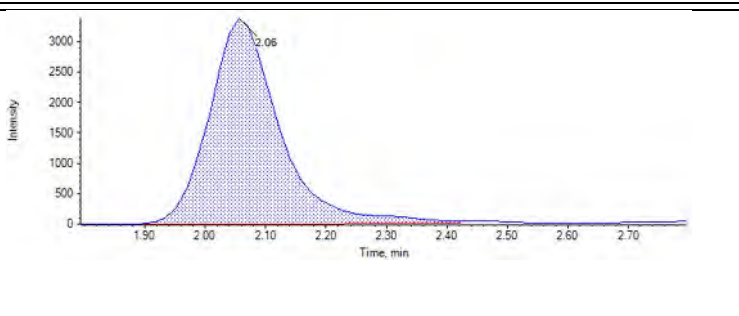
J5389-FS(3)	
RT (Exp. RT):	2.06 (2.10) min
Calculated Conc:	121.180163 ng/L
Area:	2.379e4
Modified:	(False)



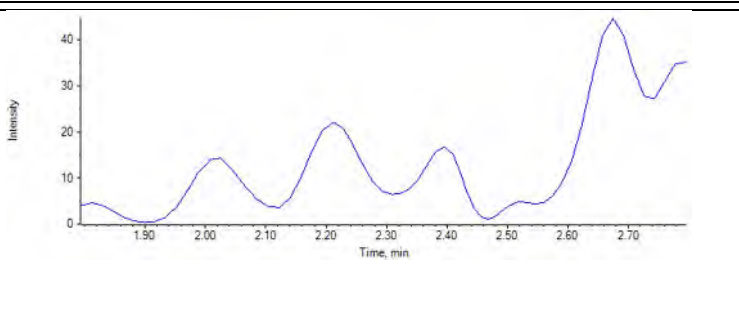
J5390-FS(3)	
RT (Exp. RT):	2.06 (2.10) min
Calculated Conc:	124.689317 ng/L
Area:	3.328e4
Modified:	(False)



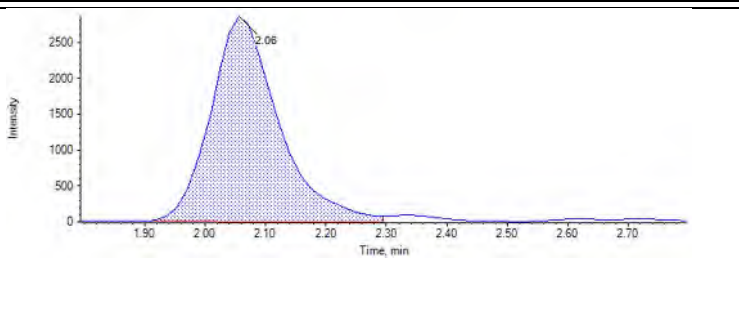
JU09 CCV	
RT (Exp. RT):	2.06 (2.10) min
Calculated Conc:	102.962315 ng/L
Area:	2.721e4
Modified:	(False)



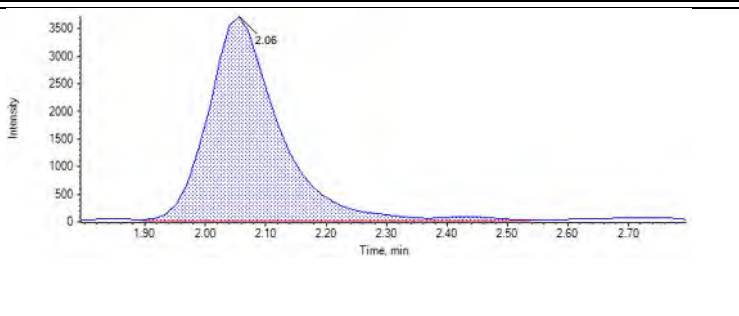
MeOH	
RT (Exp. RT):	N/A (2.10) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



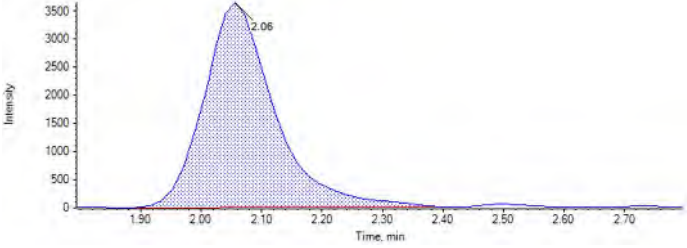
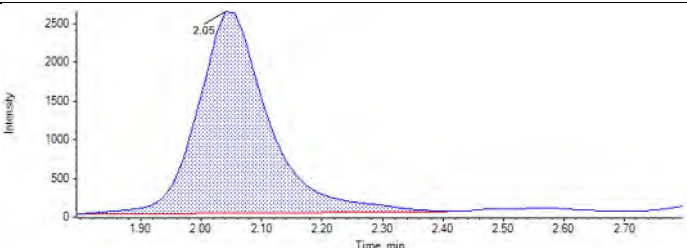
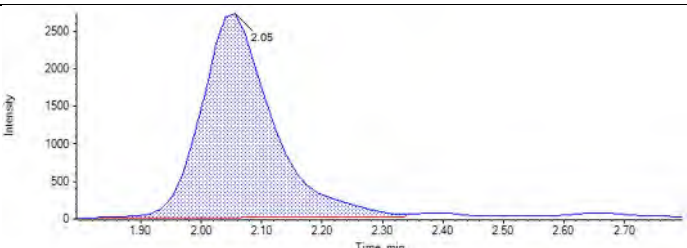
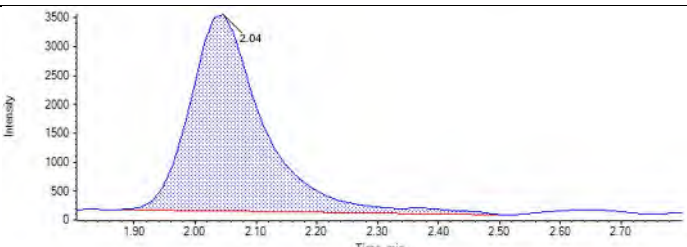
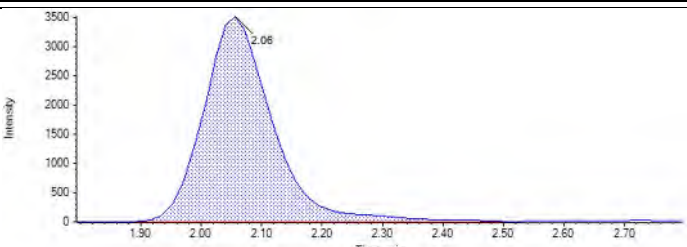
J5392-FS(3)	
RT (Exp. RT):	2.06 (2.10) min
Calculated Conc:	103.327457 ng/L
Area:	2.221e4
Modified:	(False)



J5394-FS(4)	
RT (Exp. RT):	2.06 (2.10) min
Calculated Conc:	50.868958 ng/L
Area:	3.040e4
Modified:	(True)





<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 2.06 (2.10) min</p> <p>Calculated Conc: 120.080374 ng/L</p> <p>Area: 2.950e4</p> <p>Modified: (False)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 102.392344 ng/L</p> <p>Area: 2.139e4</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 89.590650 ng/L</p> <p>Area: 2.231e4</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.04 (2.10) min</p> <p>Calculated Conc: 101.749191 ng/L</p> <p>Area: 2.876e4</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.06 (2.10) min</p> <p>Calculated Conc: 99.043527 ng/L</p> <p>Area: 2.758e4</p> <p>Modified: (False)</p>	

**Analyte:** 13C8-PFOA (421.0 / 376.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

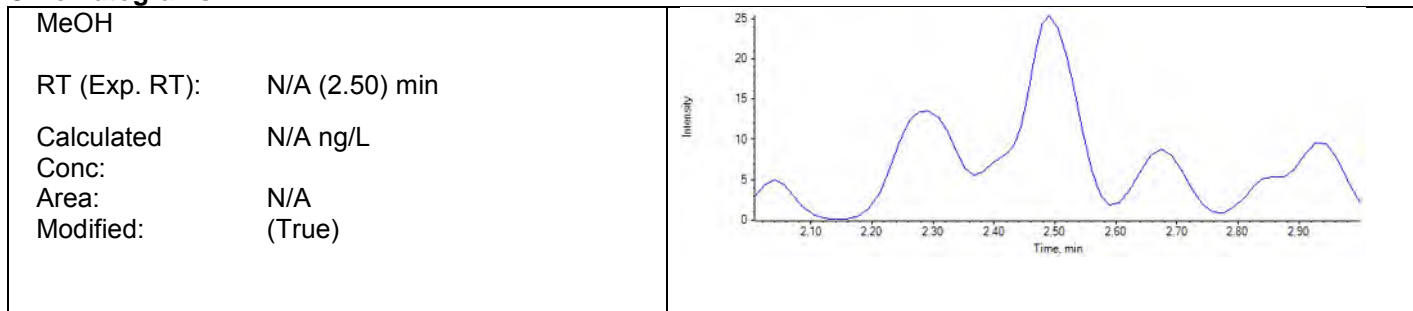
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	31110	2.45	28110	100.00000	109.015056	109
JU05	Standard	3/28/2018 7:57:43 PM	26830	2.46	23700	100.00000	111.499928	112
JU06	Standard	3/28/2018 8:08:31 PM	27320	2.45	25050	100.00000	107.421360	107
JU07	Standard	3/28/2018 8:19:19 PM	30630	2.45	30300	100.00000	99.572505	100
JU08	Standard	3/28/2018 8:30:06 PM	27800	2.45	25080	100.00000	109.204005	109
JU09	Standard	3/28/2018 8:40:53 PM	26380	2.45	26460	100.00000	98.202368	98
JU10	Standard	3/28/2018 8:51:40 PM	24570	2.45	26410	100.00000	91.651211	92
JU11	Standard	3/28/2018 9:02:26 PM	22840	2.45	26170	100.00000	85.965384	86
JU12	Standard	3/28/2018 9:13:13 PM	30190	2.44	34000	100.00000	87.468183	87
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	31870	2.45	31350	100.00000	100.125901	100
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	25020	2.44	25470	100.00000	96.758342	97
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	33220	2.44	29970	100.00000	109.177203	109
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	31720	2.44	31470	100.00000	99.296912	99
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	29920	2.44	30570	100.00000	96.400374	96
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	15760	2.42	18260	100.00000	85.017605	85
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	15750	2.41	18400	100.00000	84.294872	84
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	16350	2.42	19240	100.00000	83.672130	84



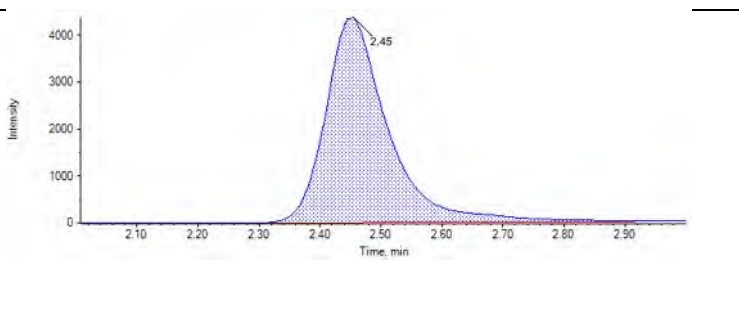
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	20470	2.43	31480	100.00000	64.043221	64
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	19970	2.44	22510	100.00000	87.386974	87
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	33900	2.44	30610	100.00000	109.108720	109
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	33260	2.43	30300	100.00000	108.124819	108
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	22570	2.44	24650	100.00000	90.190059	90
<del>J5394-FS(4)</del>	<del>Quality Control</del>	<del>3/29/2018 12:48:42 AM</del>	<del>25280</del>	<del>2.44</del>	<del>68540</del>	<del>100.00000</del>	<del>36.326871</del>	<del>36</del>
J5394-FS-D(5)	Quality Control	3/29/2018 12:59:28 AM	30880	2.43	28170	100.00000	107.969092	108
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	19820	2.43	23950	100.00000	81.492059	81
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	22370	2.43	28560	100.00000	77.162534	77
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	26180	2.43	32410	100.00000	79.556481	80
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	30970	2.43	31930	100.00000	95.544211	96

Reported from the dilution. DMS 4/6/2018

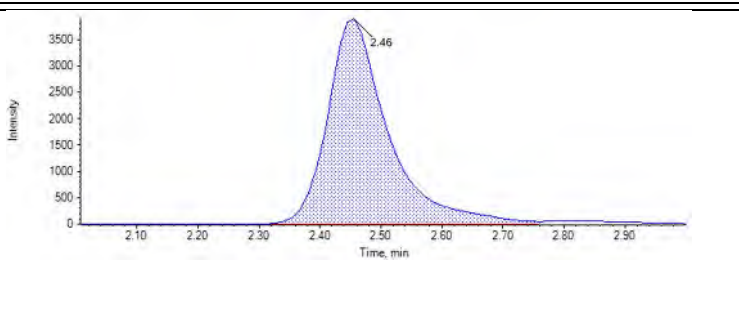
**Chromatograms:**



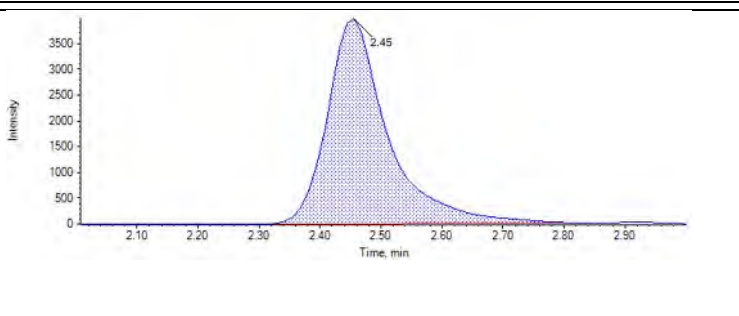
JU04  
 RT (Exp. RT): 2.45 (2.50) min  
 Calculated Conc: 109.015056 ng/L  
 Area: 3.111e4  
 Modified: (False)



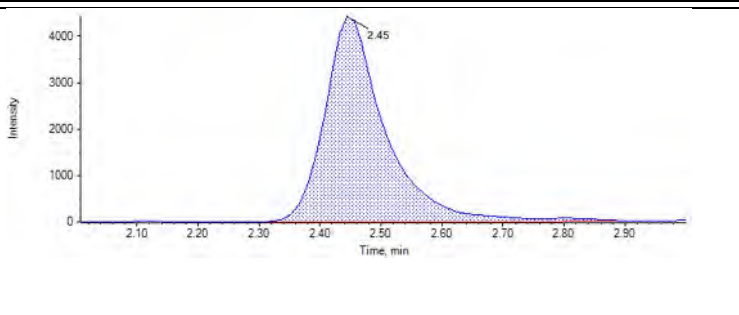
JU05  
 RT (Exp. RT): 2.46 (2.50) min  
 Calculated Conc: 111.499928 ng/L  
 Area: 2.683e4  
 Modified: (False)



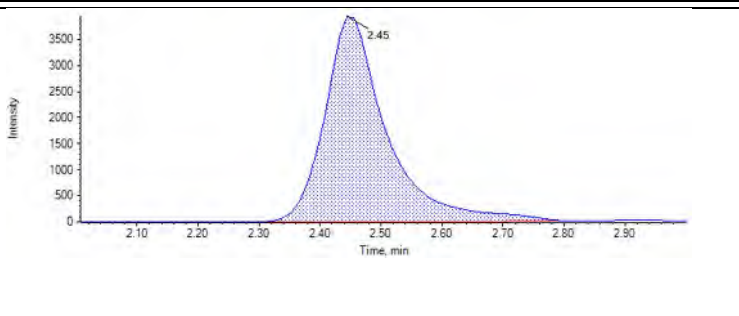
JU06  
 RT (Exp. RT): 2.45 (2.50) min  
 Calculated Conc: 107.421360 ng/L  
 Area: 2.732e4  
 Modified: (False)

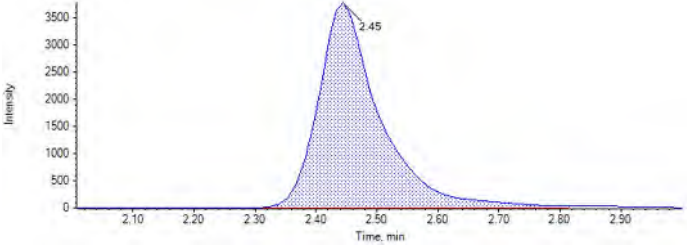
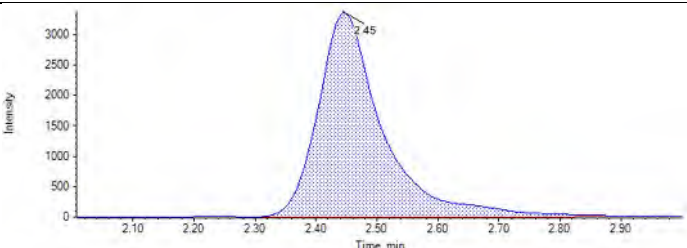
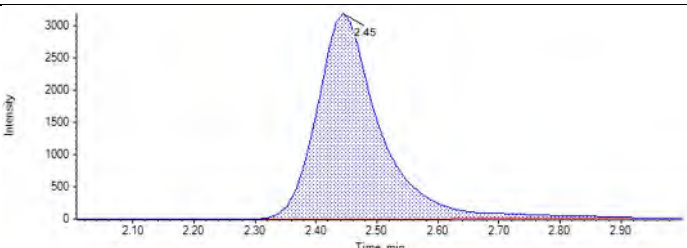
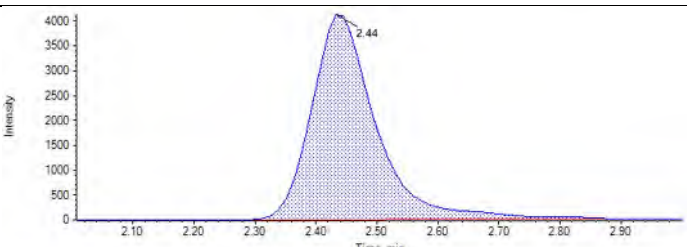
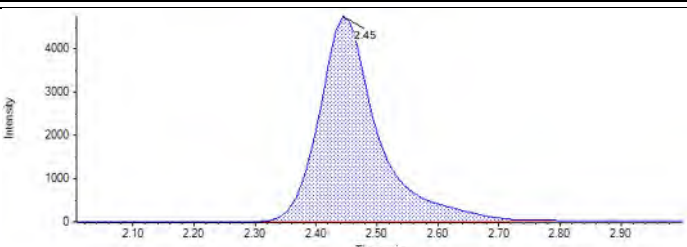


JU07  
 RT (Exp. RT): 2.45 (2.50) min  
 Calculated Conc: 99.572505 ng/L  
 Area: 3.063e4  
 Modified: (False)

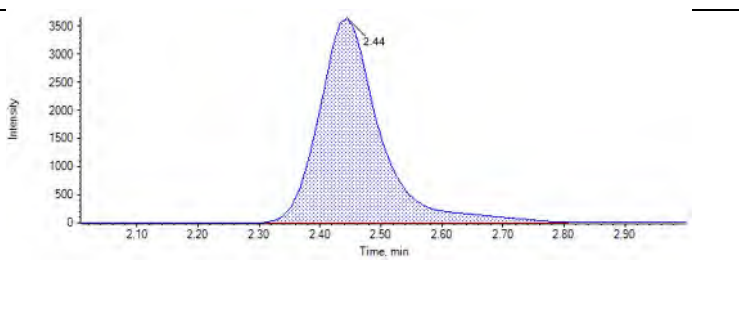


JU08  
 RT (Exp. RT): 2.45 (2.50) min  
 Calculated Conc: 109.204005 ng/L  
 Area: 2.780e4  
 Modified: (False)

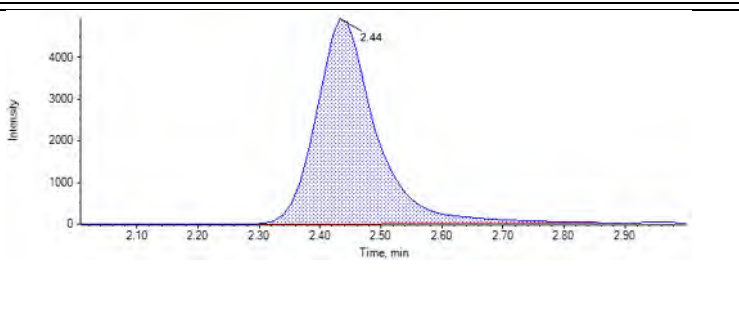


<p>JU09</p> <p>RT (Exp. RT): 2.45 (2.50) min</p> <p>Calculated Conc: 98.202368 ng/L</p> <p>Area: 2.638e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.45 (2.50) min</p> <p>Calculated Conc: 91.651211 ng/L</p> <p>Area: 2.457e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.45 (2.50) min</p> <p>Calculated Conc: 85.965384 ng/L</p> <p>Area: 2.284e4</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.44 (2.50) min</p> <p>Calculated Conc: 87.468183 ng/L</p> <p>Area: 3.019e4</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.45 (2.50) min</p> <p>Calculated Conc: 100.125901 ng/L</p> <p>Area: 3.187e4</p> <p>Modified: (False)</p>	

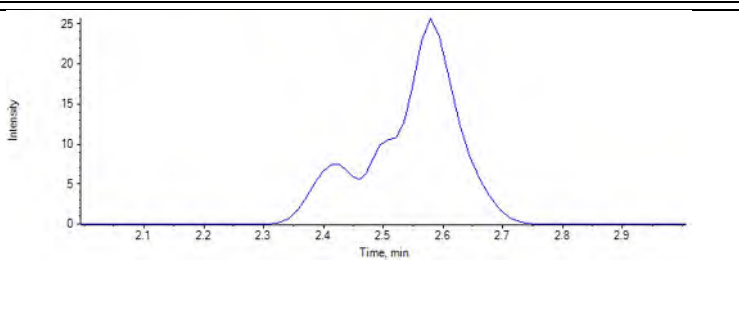
JU13 ICC	
RT (Exp. RT):	2.44 (2.50) min
Calculated Conc:	96.758342 ng/L
Area:	2.502e4
Modified:	(False)



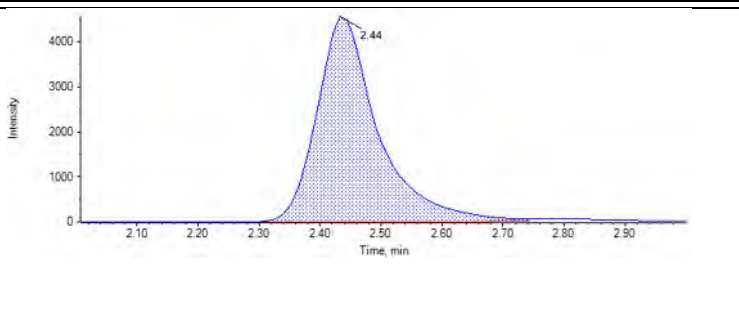
JU38 Branch	
RT (Exp. RT):	2.44 (2.50) min
Calculated Conc:	109.177203 ng/L
Area:	3.322e4
Modified:	(False)



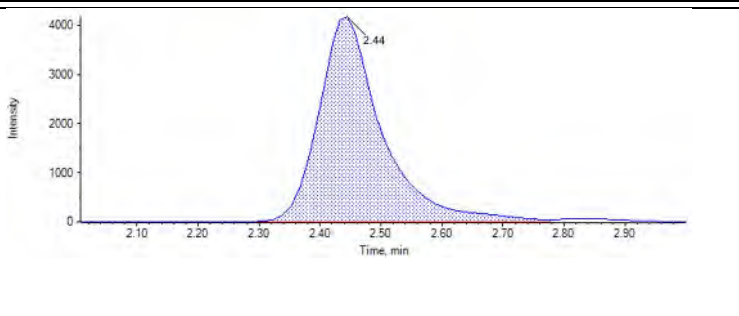
MeOH	
RT (Exp. RT):	N/A (2.50) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



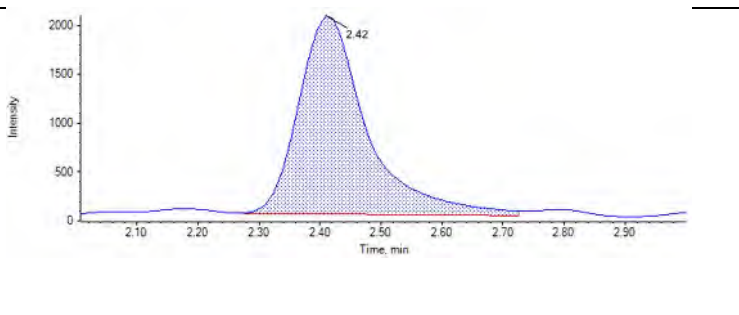
CQ320PB-FS(3)	
RT (Exp. RT):	2.44 (2.50) min
Calculated Conc:	99.296912 ng/L
Area:	3.172e4
Modified:	(False)



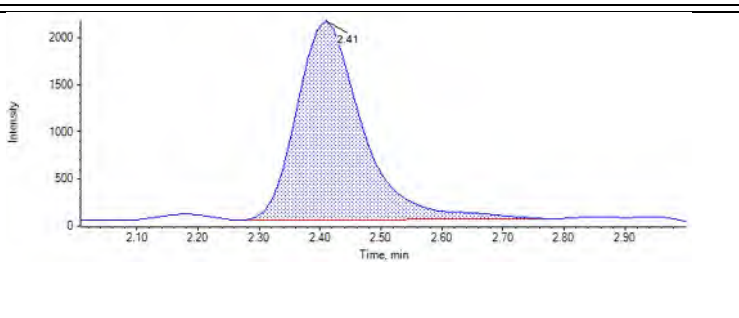
CQ321LCS-FS(3)	
RT (Exp. RT):	2.44 (2.50) min
Calculated Conc:	96.400374 ng/L
Area:	2.992e4
Modified:	(False)



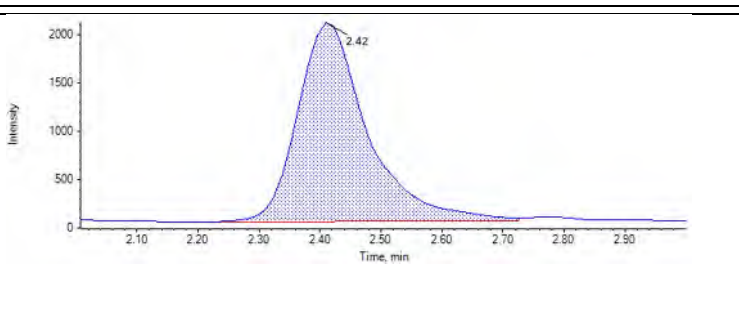
J5387-FS(3)  
RT (Exp. RT): 2.42 (2.50) min  
Calculated Conc: 85.017605 ng/L  
Area: 1.576e4  
Modified: (False)



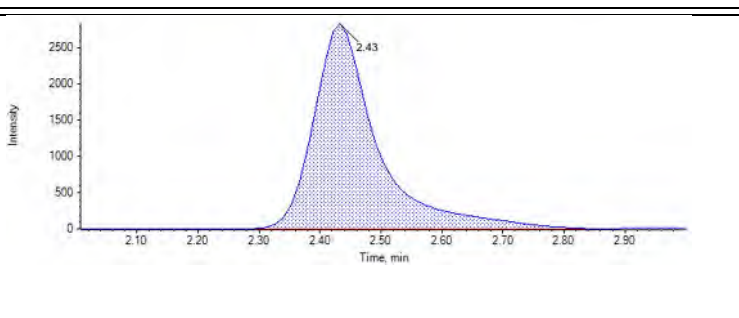
J5387MS-FS(3)  
RT (Exp. RT): 2.41 (2.50) min  
Calculated Conc: 84.294872 ng/L  
Area: 1.575e4  
Modified: (False)



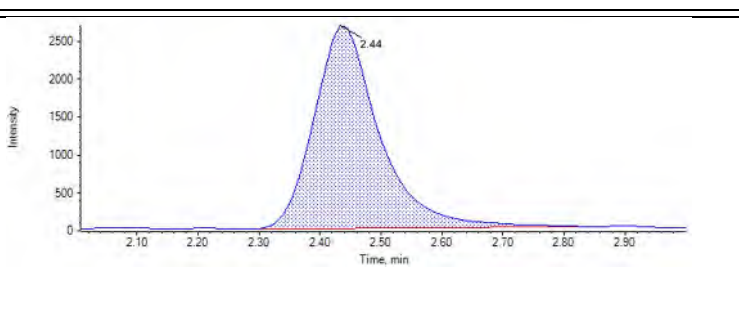
J5387MSD-FS(3)  
RT (Exp. RT): 2.42 (2.50) min  
Calculated Conc: 83.672130 ng/L  
Area: 1.635e4  
Modified: (False)



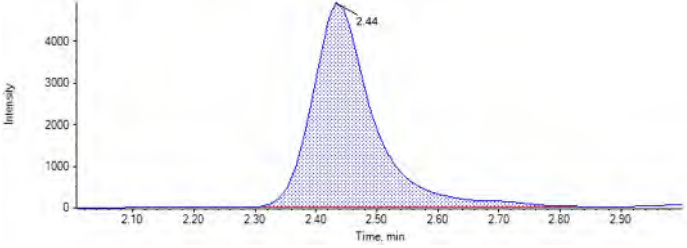
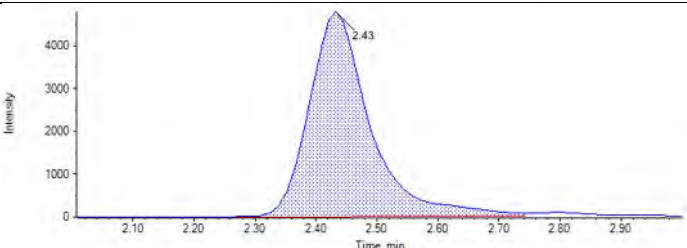
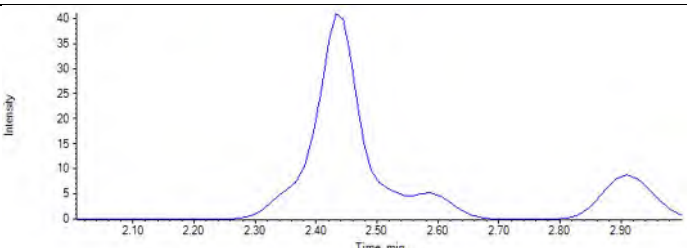
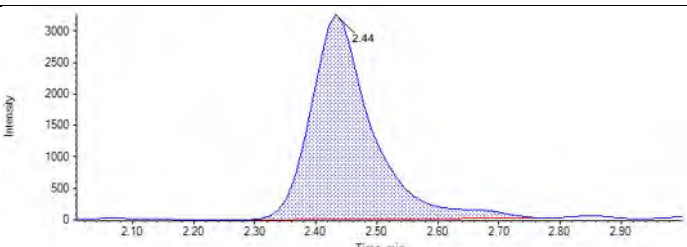
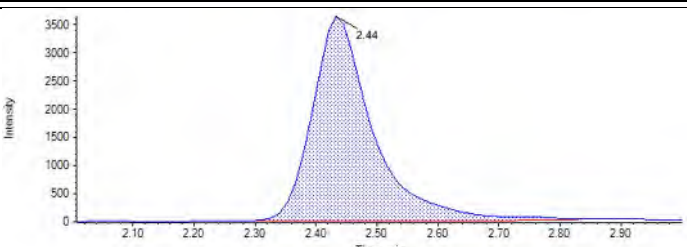
J5388-FS(3)  
RT (Exp. RT): 2.43 (2.50) min  
Calculated Conc: 64.043221 ng/L  
Area: 2.047e4  
Modified: (False)

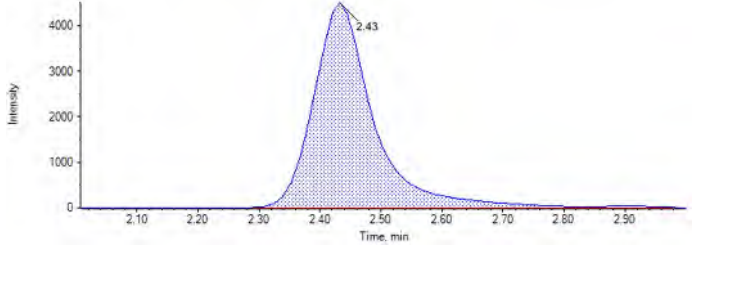
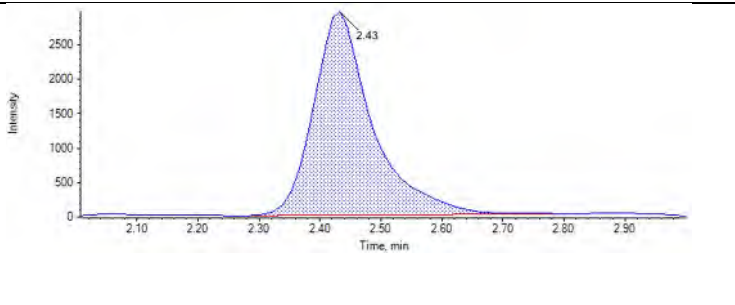
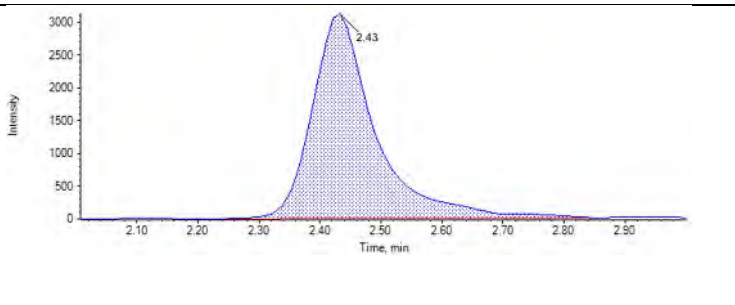
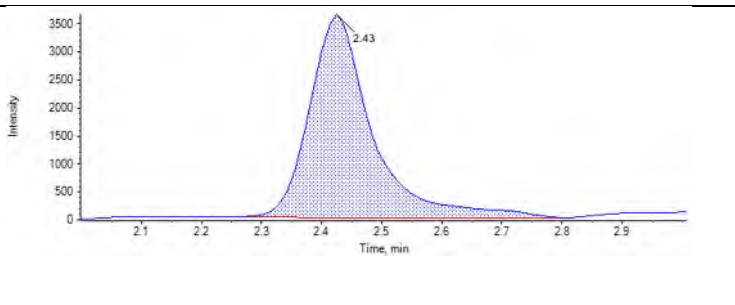
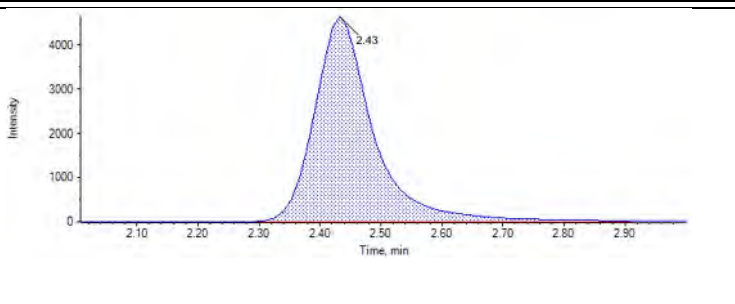


J5389-FS(3)  
RT (Exp. RT): 2.44 (2.50) min  
Calculated Conc: 87.386974 ng/L  
Area: 1.997e4  
Modified: (False)





<p>J5390-FS(3)</p> <p>RT (Exp. RT): 2.44 (2.50) min</p> <p>Calculated Conc: 109.108720 ng/L</p> <p>Area: 3.390e4</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.43 (2.50) min</p> <p>Calculated Conc: 108.124819 ng/L</p> <p>Area: 3.326e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.44 (2.50) min</p> <p>Calculated Conc: 90.190059 ng/L</p> <p>Area: 2.257e4</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 2.44 (2.50) min</p> <p>Calculated Conc: 36.326871 ng/L</p> <p>Area: 2.528e4</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 2.43 (2.50) min</p> <p>Calculated Conc: 107.969092 ng/L</p> <p>Area: 3.088e4</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 2.43 (2.50) min</p> <p>Calculated Conc: 81.492059 ng/L</p> <p>Area: 1.982e4</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.43 (2.50) min</p> <p>Calculated Conc: 77.162534 ng/L</p> <p>Area: 2.237e4</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.43 (2.50) min</p> <p>Calculated Conc: 79.556481 ng/L</p> <p>Area: 2.618e4</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.43 (2.50) min</p> <p>Calculated Conc: 95.544211 ng/L</p> <p>Area: 3.097e4</p> <p>Modified: (False)</p>	



**Analyte:** 13C9-PFNA (472.0 / 427.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

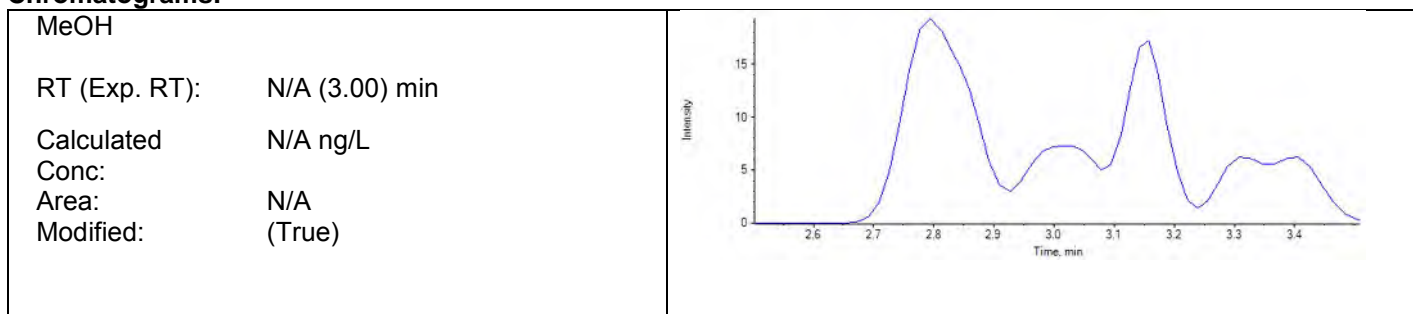
**Samples:**

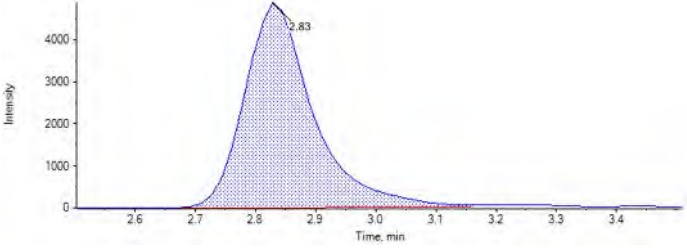
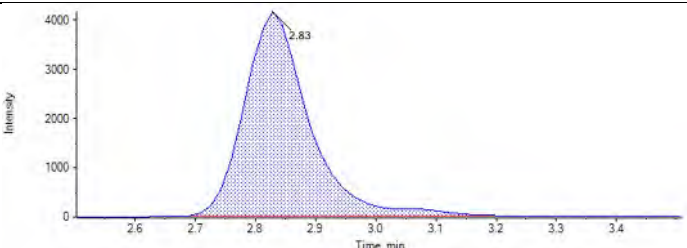
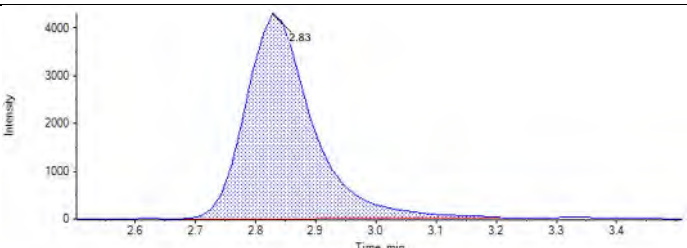
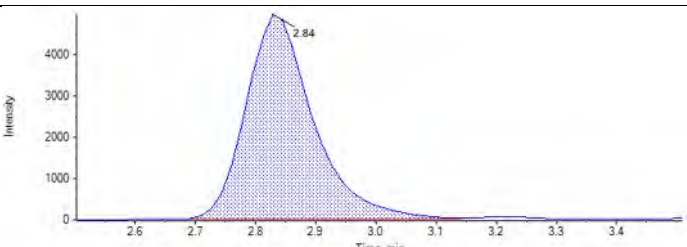
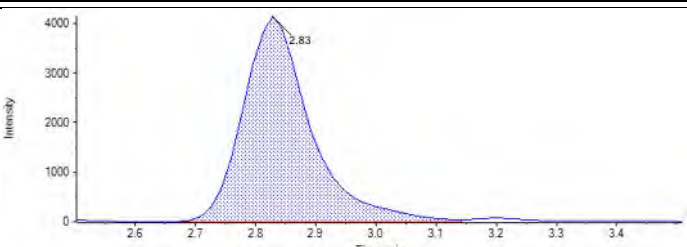
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	38690	2.83	28110	100.00000	110.647369	111
JU05	Standard	3/28/2018 7:57:43 PM	31190	2.83	23700	100.00000	105.778923	106
JU06	Standard	3/28/2018 8:08:31 PM	33210	2.83	25050	100.00000	106.596329	107
JU07	Standard	3/28/2018 8:19:19 PM	38790	2.84	30300	100.00000	102.945738	103
JU08	Standard	3/28/2018 8:30:06 PM	32180	2.83	25080	100.00000	103.168068	103
JU09	Standard	3/28/2018 8:40:53 PM	34990	2.83	26460	100.00000	106.319925	106
JU10	Standard	3/28/2018 8:51:40 PM	29550	2.83	26410	100.00000	89.961570	90
JU11	Standard	3/28/2018 9:02:26 PM	28850	2.83	26170	100.00000	88.652594	89
JU12	Standard	3/28/2018 9:13:13 PM	36340	2.82	34000	100.00000	85.929483	86
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	37790	2.82	31350	100.00000	96.889583	97
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	31570	2.82	25470	100.00000	99.619954	100
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	35440	2.82	29970	100.00000	95.070739	95
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	38790	2.82	31470	100.00000	99.096456	99
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	35680	2.82	30570	100.00000	93.832417	94
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	17600	2.80	18260	100.00000	77.485224	77
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	19870	2.80	18400	100.00000	86.817237	87
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	20970	2.81	19240	100.00000	87.615470	88

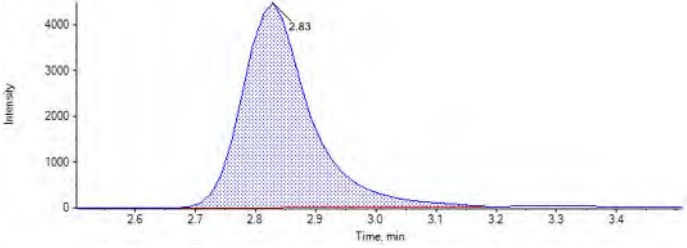
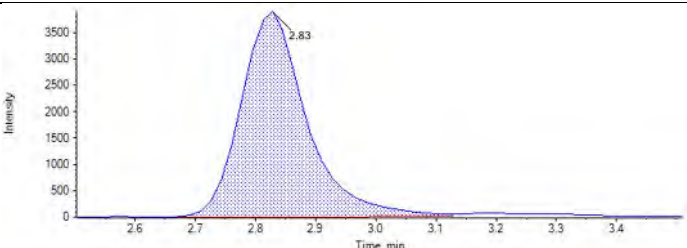
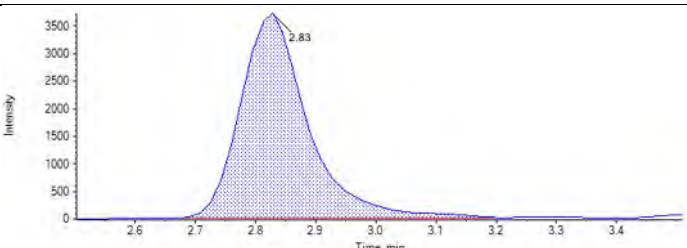
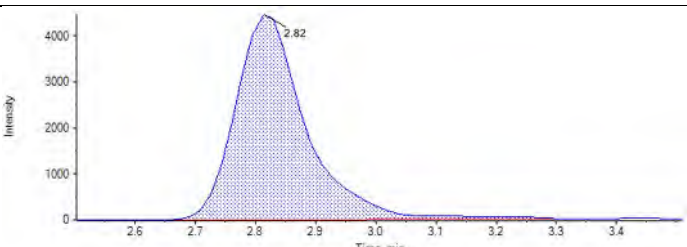
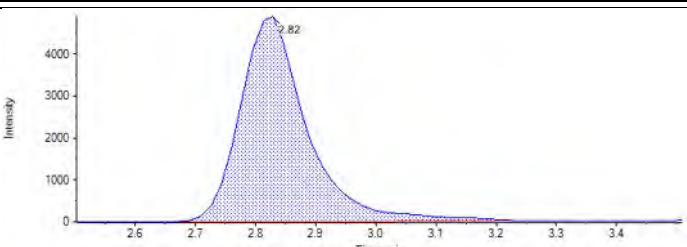
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	24970	2.81	31480	100.00000	63.753225	64
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	20680	2.81	22510	100.00000	73.876032	74
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	35790	2.82	30610	100.00000	94.023831	94
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	39780	2.81	30300	100.00000	105.549668	106
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	25080	2.82	24650	100.00000	81.808322	82
<del>J5394-FS(4)</del>	<del>Quality Control</del>	<del>3/29/2018 12:48:42 AM</del>	<del>28310</del>	<del>2.82</del>	<del>68540</del>	<del>100.00000</del>	<del>33.206200</del>	<del>33</del>
J5394-FS-D(5)	Quality Control	3/29/2018 12:59:28 AM	35760	2.81	28170	100.00000	102.075837	102
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	20880	2.82	23950	100.00000	70.072356	70
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	22840	2.82	28560	100.00000	64.285369	64
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	30060	2.81	32410	100.00000	74.554815	75
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	37290	2.81	31930	100.00000	93.895021	94

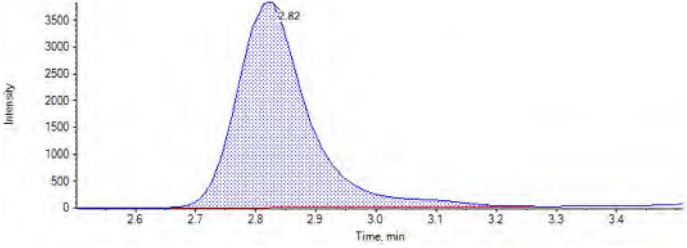
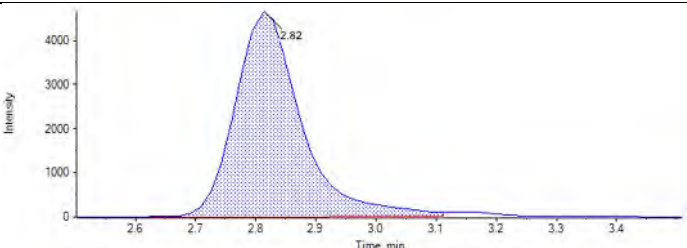
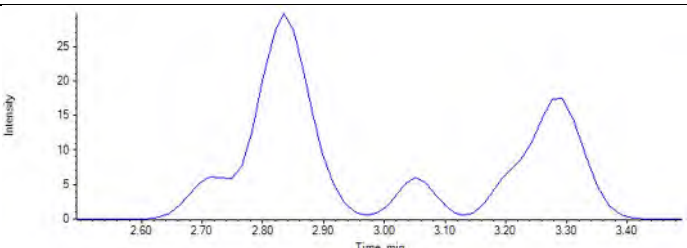
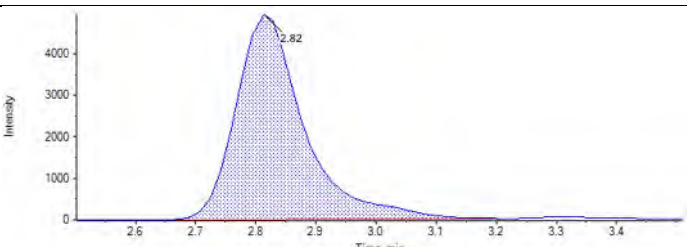
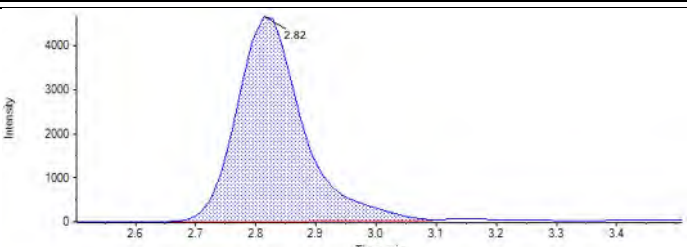
Reported from the dilution. DMS 4/6/2018

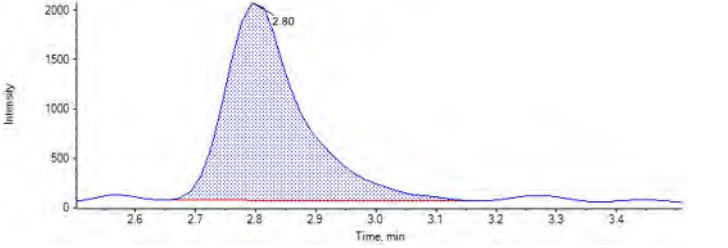
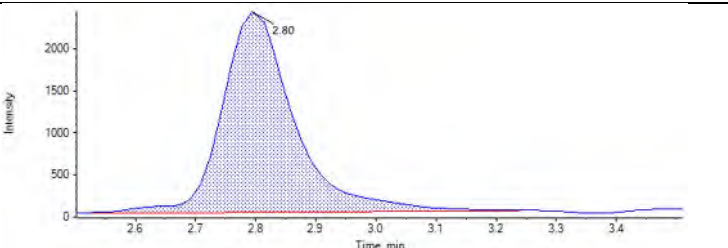
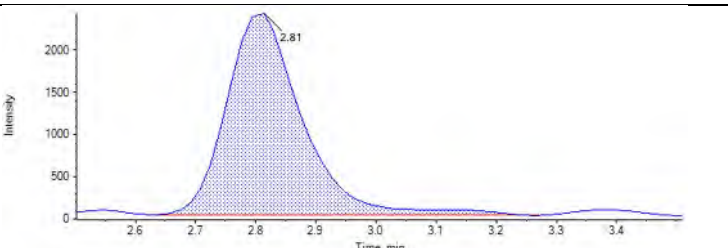
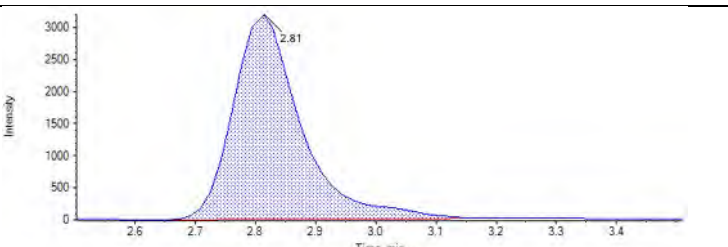
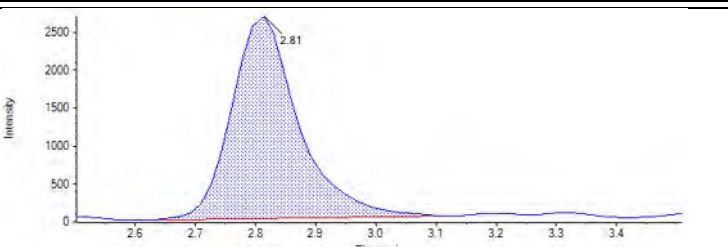
**Chromatograms:**



<p>JU04</p> <p>RT (Exp. RT): 2.83 (3.00) min</p> <p>Calculated Conc: 110.647369 ng/L</p> <p>Area: 3.869e4</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.83 (3.00) min</p> <p>Calculated Conc: 105.778923 ng/L</p> <p>Area: 3.119e4</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.83 (3.00) min</p> <p>Calculated Conc: 106.596329 ng/L</p> <p>Area: 3.321e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.84 (3.00) min</p> <p>Calculated Conc: 102.945738 ng/L</p> <p>Area: 3.879e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.83 (3.00) min</p> <p>Calculated Conc: 103.168068 ng/L</p> <p>Area: 3.218e4</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 2.83 (3.00) min</p> <p>Calculated Conc: 106.319925 ng/L</p> <p>Area: 3.499e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.83 (3.00) min</p> <p>Calculated Conc: 89.961570 ng/L</p> <p>Area: 2.955e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.83 (3.00) min</p> <p>Calculated Conc: 88.652594 ng/L</p> <p>Area: 2.885e4</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 85.929483 ng/L</p> <p>Area: 3.634e4</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 96.889583 ng/L</p> <p>Area: 3.779e4</p> <p>Modified: (False)</p>	

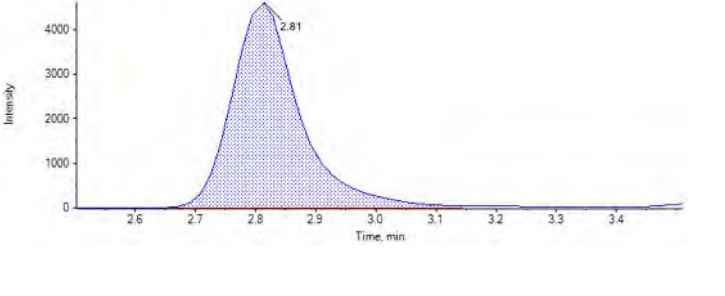
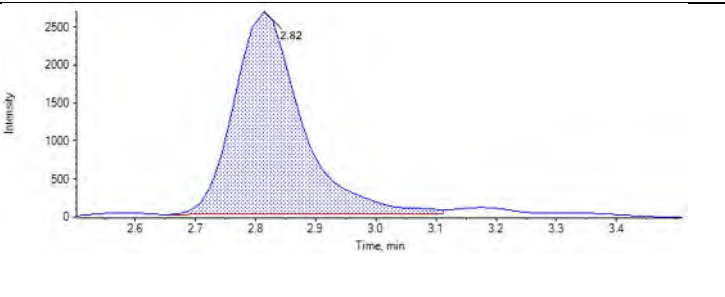
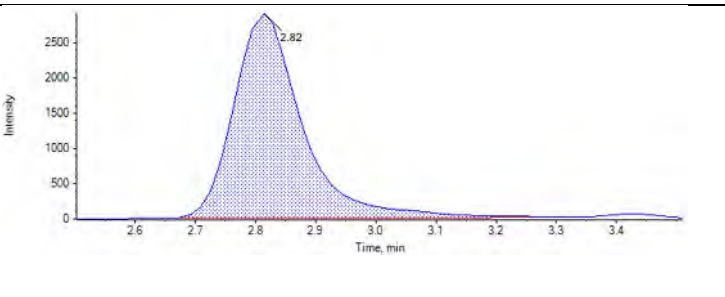
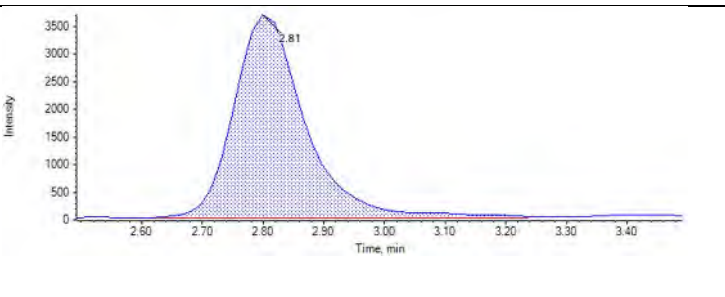
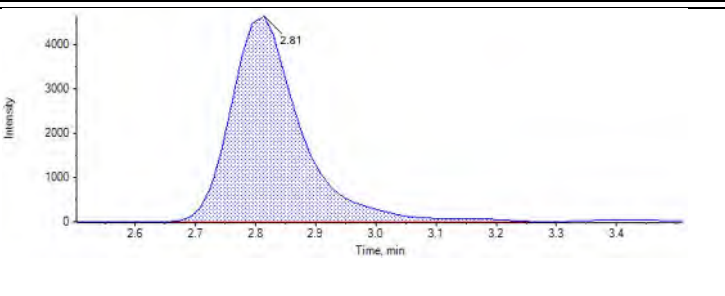
<p>JU13 ICC</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 99.619954 ng/L</p> <p>Area: 3.157e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 95.070739 ng/L</p> <p>Area: 3.544e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 99.096456 ng/L</p> <p>Area: 3.879e4</p> <p>Modified: (False)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 93.832417 ng/L</p> <p>Area: 3.568e4</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 2.80 (3.00) min</p> <p>Calculated Conc: 77.485224 ng/L</p> <p>Area: 1.760e4</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.80 (3.00) min</p> <p>Calculated Conc: 86.817237 ng/L</p> <p>Area: 1.987e4</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 87.615470 ng/L</p> <p>Area: 2.097e4</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 63.753225 ng/L</p> <p>Area: 2.497e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 73.876032 ng/L</p> <p>Area: 2.068e4</p> <p>Modified: (False)</p>	



<p>J5390-FS(3)</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 94.023831 ng/L</p> <p>Area: 3.579e4</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 105.549668 ng/L</p> <p>Area: 3.978e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 81.808322 ng/L</p> <p>Area: 2.508e4</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 33.206200 ng/L</p> <p>Area: 2.831e4</p> <p>Modified: (True)</p>	



<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 102.075837 ng/L</p> <p>Area: 3.576e4</p> <p>Modified: (False)</p>	 <p>A chromatogram plot with 'Intensity' on the y-axis (0 to 4000) and 'Time, min' on the x-axis (2.6 to 3.4). A single prominent peak is observed at 2.81 minutes, reaching an intensity of approximately 4000.</p>
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 70.072356 ng/L</p> <p>Area: 2.088e4</p> <p>Modified: (False)</p>	 <p>A chromatogram plot with 'Intensity' on the y-axis (0 to 2500) and 'Time, min' on the x-axis (2.6 to 3.4). A single prominent peak is observed at 2.82 minutes, reaching an intensity of approximately 2500.</p>
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 64.285369 ng/L</p> <p>Area: 2.284e4</p> <p>Modified: (False)</p>	 <p>A chromatogram plot with 'Intensity' on the y-axis (0 to 2500) and 'Time, min' on the x-axis (2.6 to 3.4). A single prominent peak is observed at 2.82 minutes, reaching an intensity of approximately 2500.</p>
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 74.554815 ng/L</p> <p>Area: 3.006e4</p> <p>Modified: (False)</p>	 <p>A chromatogram plot with 'Intensity' on the y-axis (0 to 3500) and 'Time, min' on the x-axis (2.60 to 3.40). A single prominent peak is observed at 2.81 minutes, reaching an intensity of approximately 3500.</p>
<p>JU10 CCV</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 93.895021 ng/L</p> <p>Area: 3.729e4</p> <p>Modified: (False)</p>	 <p>A chromatogram plot with 'Intensity' on the y-axis (0 to 4000) and 'Time, min' on the x-axis (2.6 to 3.4). A single prominent peak is observed at 2.81 minutes, reaching an intensity of approximately 4000.</p>

**Analyte:** 13C6-PFDA (519.0 / 474.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

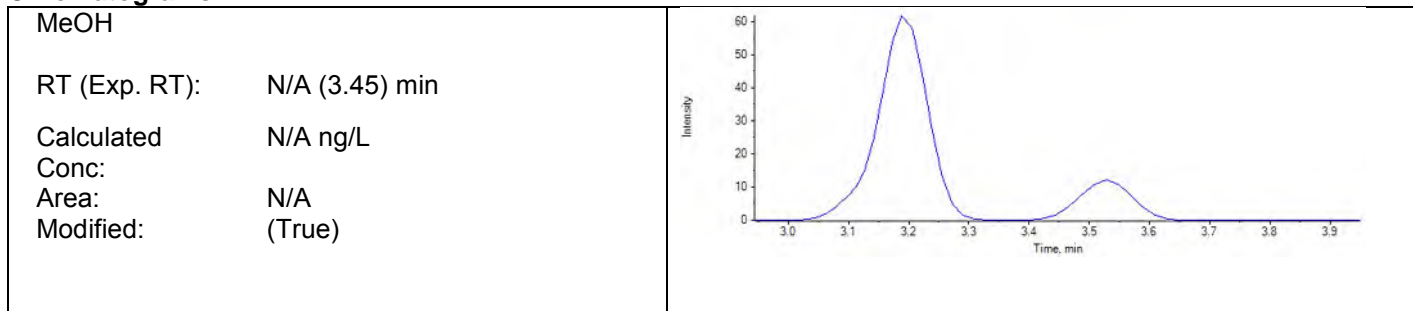
**Samples:**

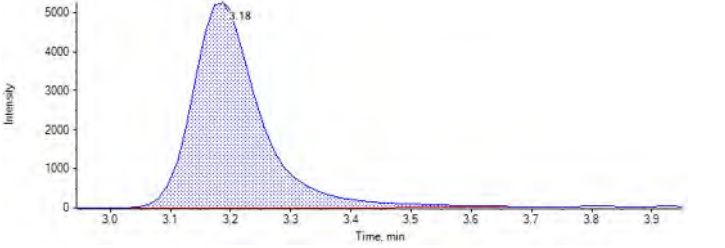
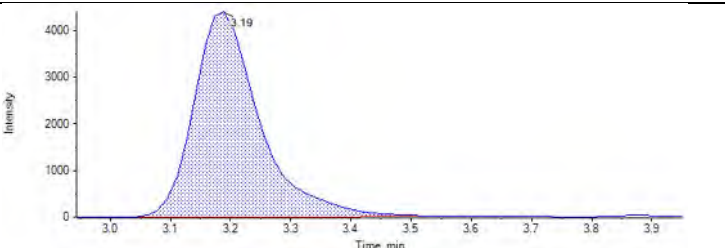
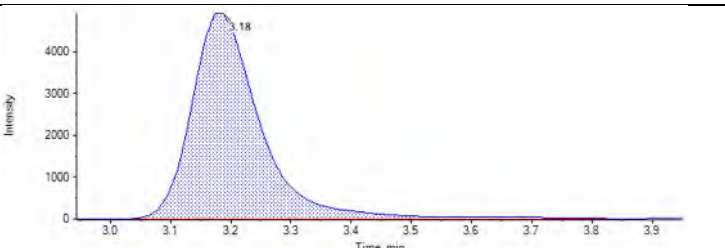
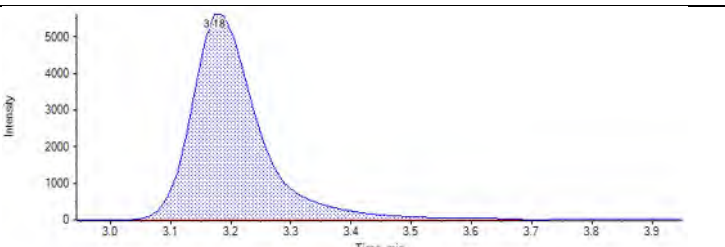
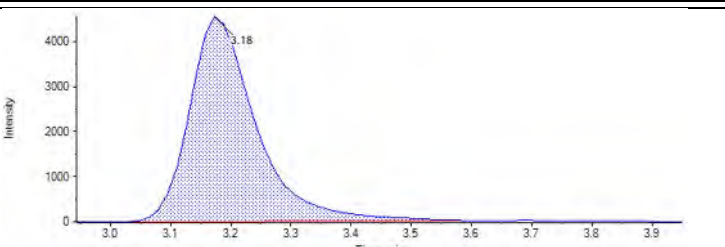
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	41120	3.18	41340	100.00000	101.450362	101
JU05	Standard	3/28/2018 7:57:43 PM	33440	3.19	33110	100.00000	103.005793	103
JU06	Standard	3/28/2018 8:08:31 PM	38860	3.18	38450	100.00000	103.081049	103
JU07	Standard	3/28/2018 8:19:19 PM	43560	3.18	41500	100.00000	107.057345	107
JU08	Standard	3/28/2018 8:30:06 PM	34900	3.18	35120	100.00000	101.339147	101
JU09	Standard	3/28/2018 8:40:53 PM	34640	3.18	38600	100.00000	91.512165	92
JU10	Standard	3/28/2018 8:51:40 PM	36190	3.18	33750	100.00000	109.372835	109
JU11	Standard	3/28/2018 9:02:26 PM	31670	3.18	35090	100.00000	92.050951	92
JU12	Standard	3/28/2018 9:13:13 PM	43310	3.17	48470	100.00000	91.130353	91
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	42230	3.18	42790	100.00000	100.673204	101
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	34370	3.18	34240	100.00000	102.390024	102
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	42960	3.17	39510	100.00000	110.895320	111
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	44320	3.17	47690	100.00000	94.792574	95
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	41760	3.17	41370	100.00000	102.951798	103
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	22660	3.16	24290	100.00000	95.137015	95
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	20230	3.15	24780	100.00000	83.291273	83
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	23740	3.16	22750	100.00000	106.415414	106

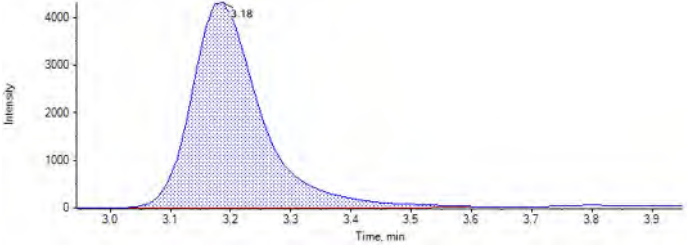
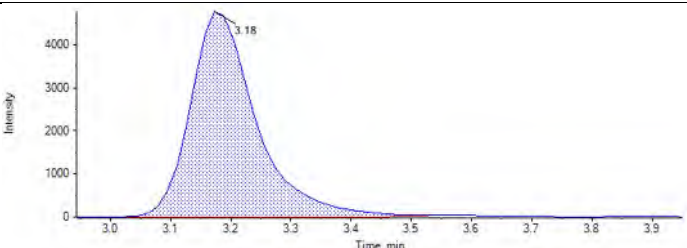
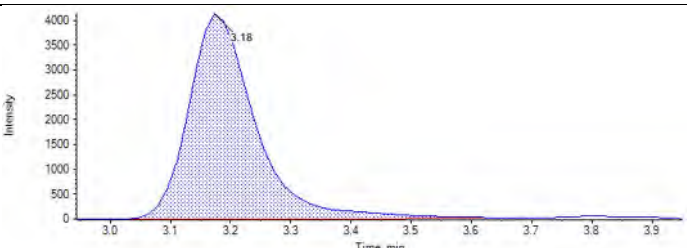
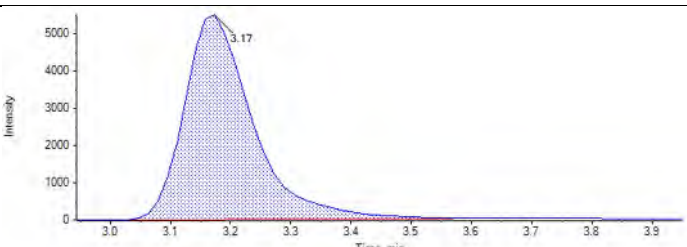
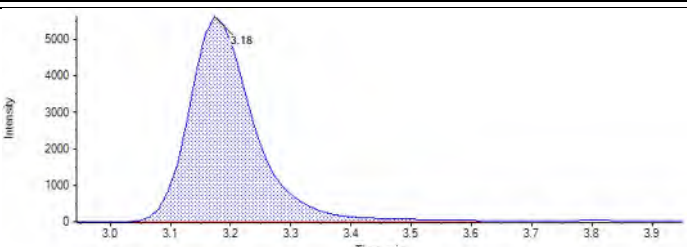
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	26590	3.17	38400	100.00000	70.624191	71
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	24310	3.16	22860	100.00000	108.452665	108
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	38120	3.17	40110	100.00000	96.950832	97
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	42380	3.16	43390	100.00000	99.604232	100
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	28240	3.17	32750	100.00000	87.962142	88
J5394-FS(4)	Quality Control	3/29/2018 12:48:42 AM	33430	3.16	37930	100.00000	89.883503	90
<del>J5394-FS-D(5)</del>	<del>Quality Control</del>	<del>3/29/2018 12:59:28 AM</del>	<del>39800</del>	<del>3.16</del>	<del>44650</del>	<del>100.00000</del>	<del>90.916597</del>	<del>91</del>
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	26010	3.17	25650	100.00000	103.399716	103
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	22830	3.16	31410	100.00000	74.128918	74
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	32460	3.15	35380	100.00000	93.563807	94
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	42350	3.16	41760	100.00000	103.439104	103

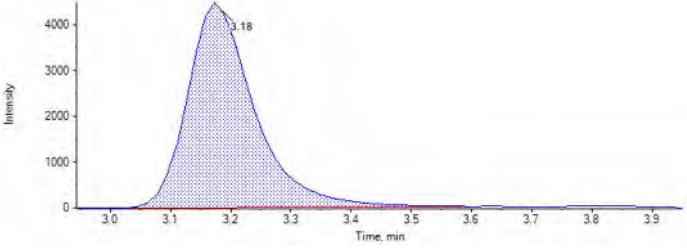
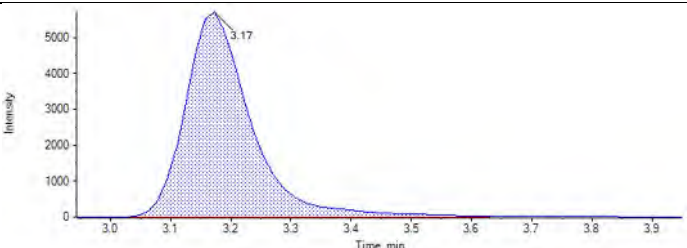
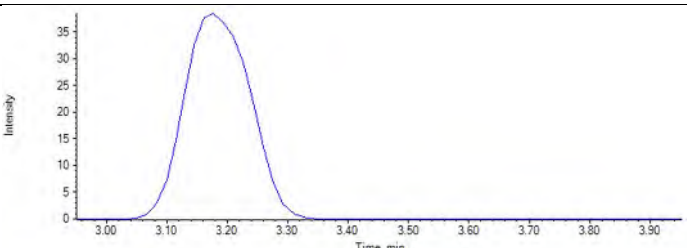
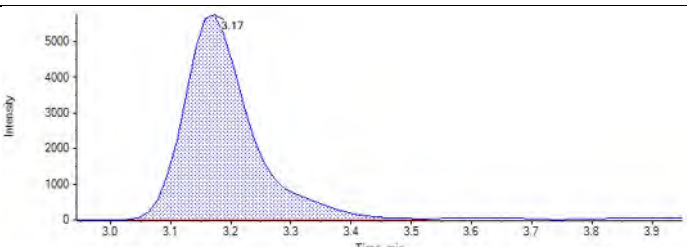
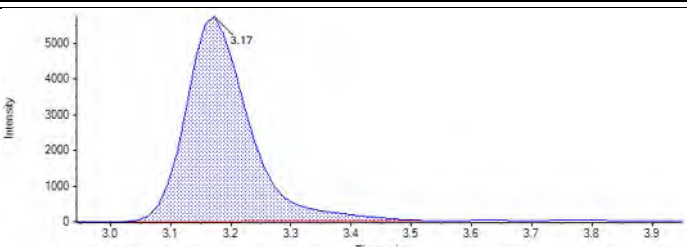
Dilution not needed. DMS 4/6/2018

**Chromatograms:**

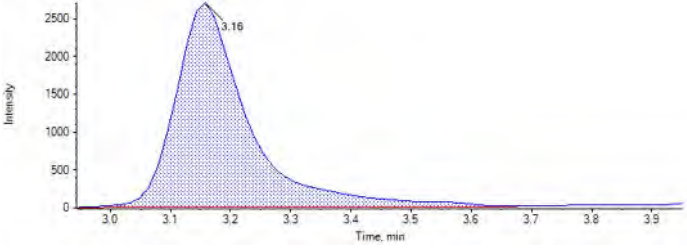
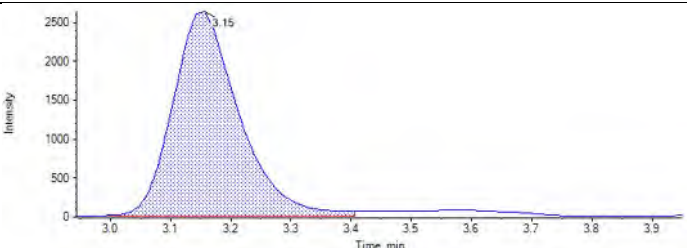
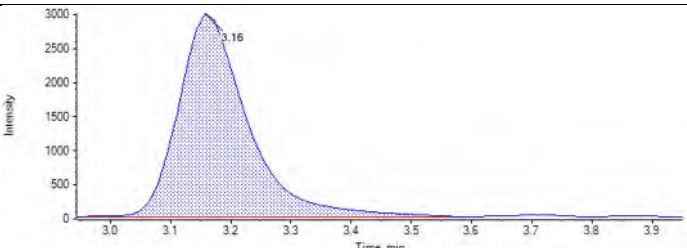
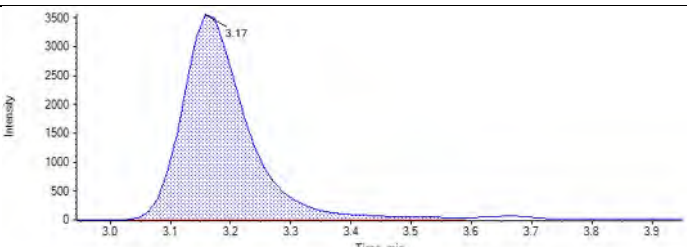
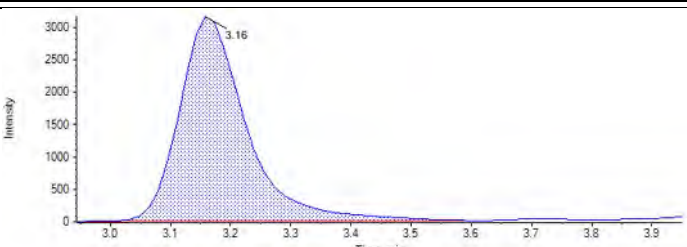


<p>JU04</p> <p>RT (Exp. RT): 3.18 (3.45) min</p> <p>Calculated Conc: 101.450362 ng/L</p> <p>Area: 4.112e4</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.19 (3.45) min</p> <p>Calculated Conc: 103.005793 ng/L</p> <p>Area: 3.344e4</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.18 (3.45) min</p> <p>Calculated Conc: 103.081049 ng/L</p> <p>Area: 3.886e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.18 (3.45) min</p> <p>Calculated Conc: 107.057345 ng/L</p> <p>Area: 4.356e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.18 (3.45) min</p> <p>Calculated Conc: 101.339147 ng/L</p> <p>Area: 3.490e4</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 3.18 (3.45) min</p> <p>Calculated Conc: 91.512165 ng/L</p> <p>Area: 3.464e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.18 (3.45) min</p> <p>Calculated Conc: 109.372835 ng/L</p> <p>Area: 3.619e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.18 (3.45) min</p> <p>Calculated Conc: 92.050951 ng/L</p> <p>Area: 3.167e4</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 3.17 (3.45) min</p> <p>Calculated Conc: 91.130353 ng/L</p> <p>Area: 4.331e4</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.18 (3.45) min</p> <p>Calculated Conc: 100.673204 ng/L</p> <p>Area: 4.223e4</p> <p>Modified: (False)</p>	

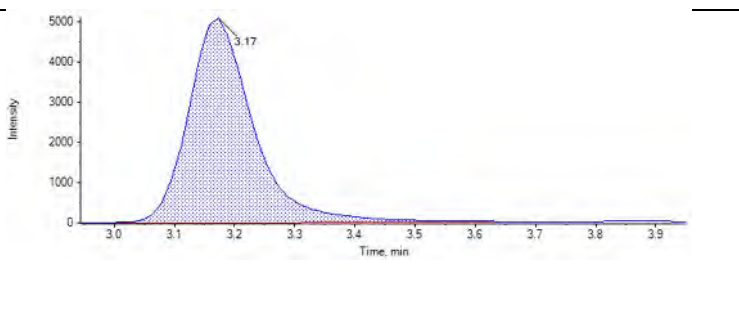
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.18 (3.45) min</p> <p>Calculated Conc: 102.390024 ng/L</p> <p>Area: 3.437e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 3.17 (3.45) min</p> <p>Calculated Conc: 110.895320 ng/L</p> <p>Area: 4.296e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.45) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 3.17 (3.45) min</p> <p>Calculated Conc: 94.792574 ng/L</p> <p>Area: 4.432e4</p> <p>Modified: (False)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 3.17 (3.45) min</p> <p>Calculated Conc: 102.951798 ng/L</p> <p>Area: 4.176e4</p> <p>Modified: (False)</p>	



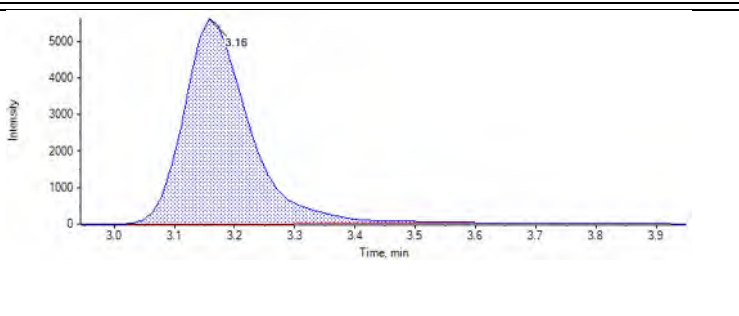
<p>J5387-FS(3)</p> <p>RT (Exp. RT): 3.16 (3.45) min</p> <p>Calculated Conc: 95.137015 ng/L</p> <p>Area: 2.266e4</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.15 (3.45) min</p> <p>Calculated Conc: 83.291273 ng/L</p> <p>Area: 2.023e4</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.16 (3.45) min</p> <p>Calculated Conc: 106.415414 ng/L</p> <p>Area: 2.374e4</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 3.17 (3.45) min</p> <p>Calculated Conc: 70.624191 ng/L</p> <p>Area: 2.659e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 3.16 (3.45) min</p> <p>Calculated Conc: 108.452665 ng/L</p> <p>Area: 2.431e4</p> <p>Modified: (False)</p>	



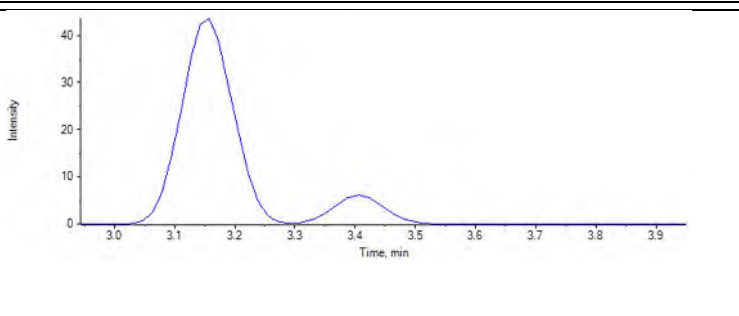
J5390-FS(3)  
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 Area: 3.812e4  
 Modified: (False)



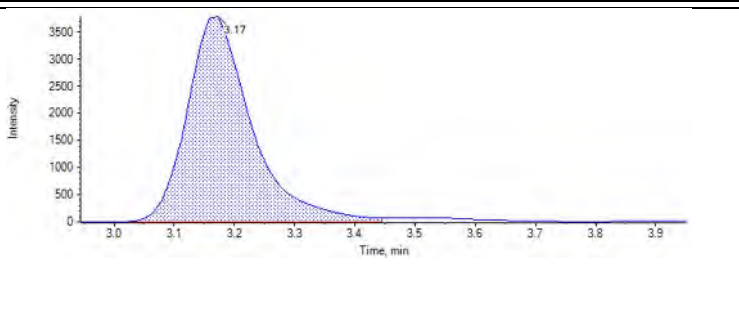
JU09 CCV  
 RT (Exp. RT): 3.16 (3.45) min  
 Calculated Conc: 99.604232 ng/L  
 Area: 4.238e4  
 Modified: (False)



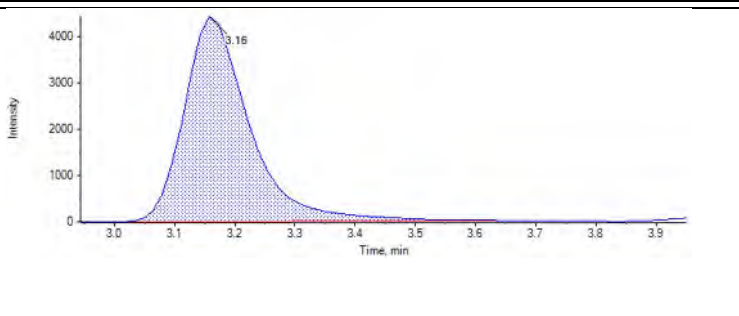
MeOH  
 RT (Exp. RT): N/A (3.45) min  
 Calculated Conc: N/A ng/L  
 Area: N/A  
 Modified: (True)



J5392-FS(3)  
 RT (Exp. RT): 3.17 (3.45) min  
 Calculated Conc: 87.962142 ng/L  
 Area: 2.824e4  
 Modified: (False)



J5394-FS(4)  
 RT (Exp. RT): 3.16 (3.45) min  
 Calculated Conc: 89.883503 ng/L  
 Area: 3.343e4  
 Modified: (False)



<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 3.16 (3.45) min</p> <p>Calculated Conc: 90.916597 ng/L</p> <p>Area: 3.980e4</p> <p>Modified: (False)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 3.17 (3.45) min</p> <p>Calculated Conc: 103.399716 ng/L</p> <p>Area: 2.601e4</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 3.16 (3.45) min</p> <p>Calculated Conc: 74.128918 ng/L</p> <p>Area: 2.283e4</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 3.15 (3.45) min</p> <p>Calculated Conc: 93.563807 ng/L</p> <p>Area: 3.246e4</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.16 (3.45) min</p> <p>Calculated Conc: 103.439104 ng/L</p> <p>Area: 4.235e4</p> <p>Modified: (False)</p>	

**Analyte:** 13C7-PFUnA (570.0 / 525.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

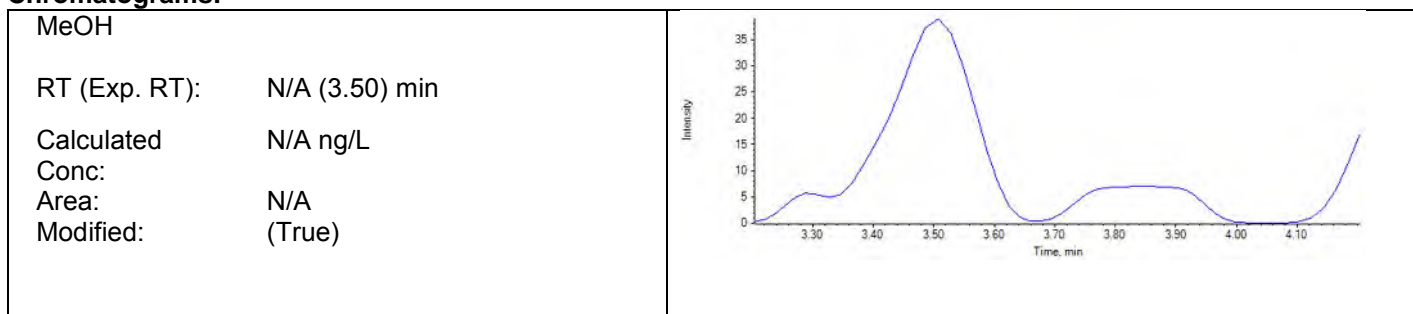
**Samples:**

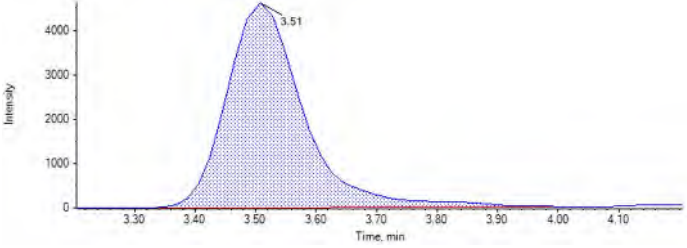
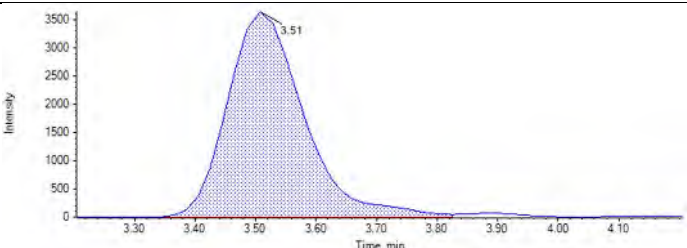
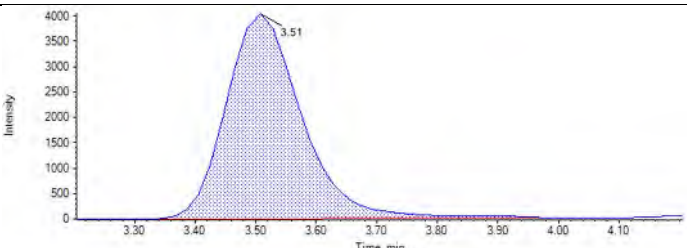
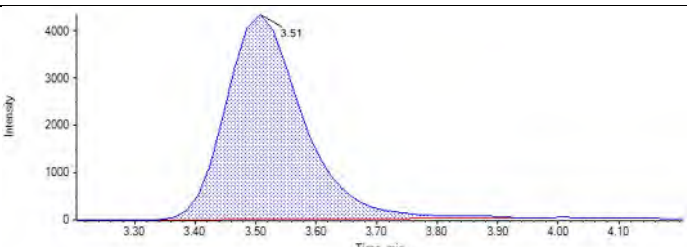
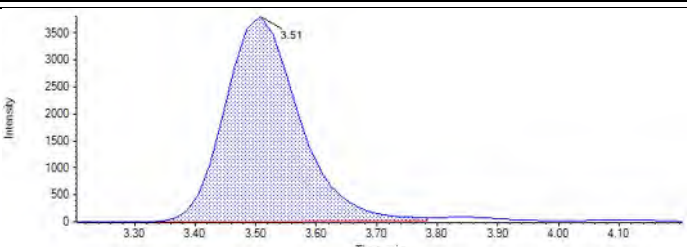
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	40580	3.51	41340	100.00000	105.218099	105
JU05	Standard	3/28/2018 7:57:43 PM	31740	3.51	33110	100.00000	102.750172	103
JU06	Standard	3/28/2018 8:08:31 PM	35100	3.51	38450	100.00000	97.825566	98
JU07	Standard	3/28/2018 8:19:19 PM	38440	3.51	41500	100.00000	99.297602	99
JU08	Standard	3/28/2018 8:30:06 PM	32460	3.51	35120	100.00000	99.052854	99
JU09	Standard	3/28/2018 8:40:53 PM	36320	3.51	38600	100.00000	100.851100	101
JU10	Standard	3/28/2018 8:51:40 PM	33050	3.50	33750	100.00000	104.972931	105
JU11	Standard	3/28/2018 9:02:26 PM	31520	3.50	35090	100.00000	96.300701	96
JU12	Standard	3/28/2018 9:13:13 PM	42390	3.50	48470	100.00000	93.730975	94
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	40120	3.50	42790	100.00000	100.493481	100
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	32470	3.50	34240	100.00000	101.639845	102
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	42020	3.49	39510	100.00000	114.007262	114
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	50580	3.49	47690	100.00000	113.681098	114
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	42220	3.49	41370	100.00000	109.370807	109
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	23300	3.48	24290	100.00000	102.798907	103
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	22520	3.48	24780	100.00000	97.405734	97
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	26860	3.49	22750	100.00000	126.527929	127

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	26730	3.49	38400	100.00000	74.612537	75
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	27350	3.49	22860	100.00000	128.223407	128
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	40910	3.49	40110	100.00000	109.320072	109
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	43680	3.49	43390	100.00000	107.888264	108
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	29010	3.49	32750	100.00000	94.932677	95
J5394-FS(4)	Quality Control	3/29/2018 12:48:42 AM	31700	3.49	37930	100.00000	89.574042	90
<del>J5394-FS-D(5)</del>	<del>Quality Control</del>	<del>3/29/2018 12:59:28 AM</del>	<del>41520</del>	<del>3.49</del>	<del>44650</del>	<del>100.00000</del>	<del>99.654796</del>	<del>100</del>
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	29280	3.49	25650	100.00000	122.358209	122
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	24000	3.48	31410	100.00000	81.897544	82
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	40770	3.48	35380	100.00000	123.500991	124
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	40250	3.48	41760	100.00000	103.306758	103

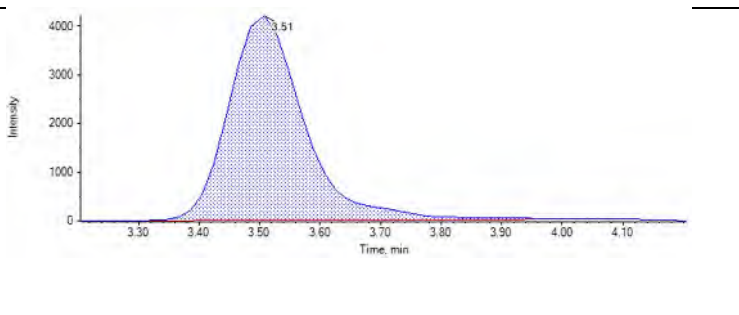
Dilution not needed. DMS 4/6/2018

**Chromatograms:**

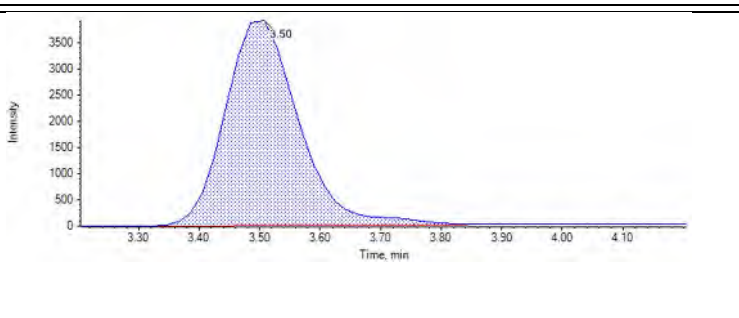


<p>JU04</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 105.218099 ng/L</p> <p>Area: 4.058e4</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 102.750172 ng/L</p> <p>Area: 3.174e4</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 97.825566 ng/L</p> <p>Area: 3.510e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 99.297602 ng/L</p> <p>Area: 3.844e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 99.052854 ng/L</p> <p>Area: 3.246e4</p> <p>Modified: (False)</p>	

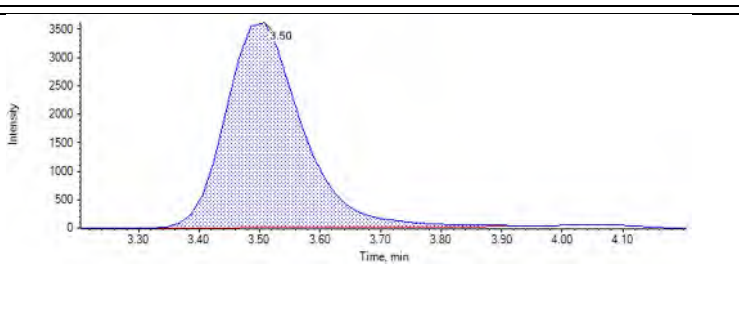
JU09  
 RT (Exp. RT): 3.51 (3.50) min  
 Calculated Conc: 100.851100 ng/L  
 Area: 3.632e4  
 Modified: (False)



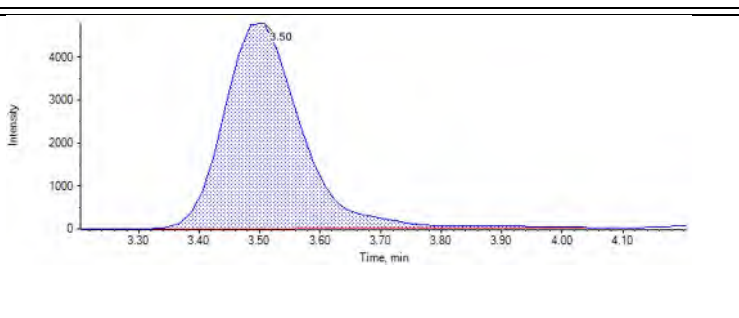
JU10  
 RT (Exp. RT): 3.50 (3.50) min  
 Calculated Conc: 104.972931 ng/L  
 Area: 3.305e4  
 Modified: (False)



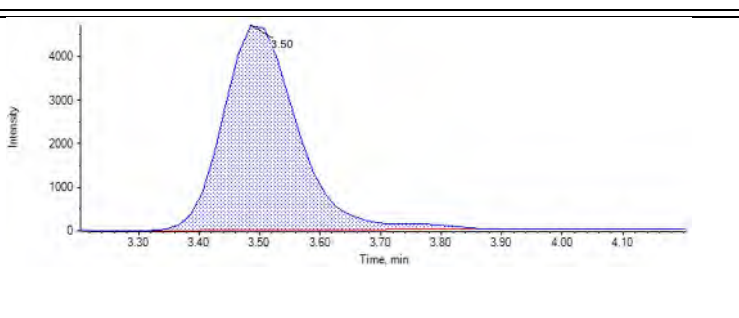
JU11  
 RT (Exp. RT): 3.50 (3.50) min  
 Calculated Conc: 96.300701 ng/L  
 Area: 3.152e4  
 Modified: (False)



JU12  
 RT (Exp. RT): 3.50 (3.50) min  
 Calculated Conc: 93.730975 ng/L  
 Area: 4.239e4  
 Modified: (False)

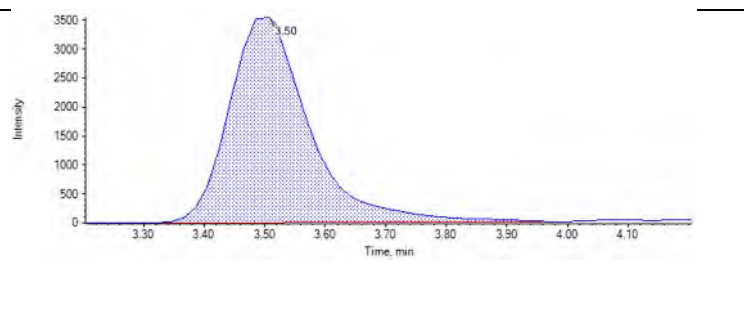


JP83 IB  
 RT (Exp. RT): 3.50 (3.50) min  
 Calculated Conc: 100.493481 ng/L  
 Area: 4.012e4  
 Modified: (False)

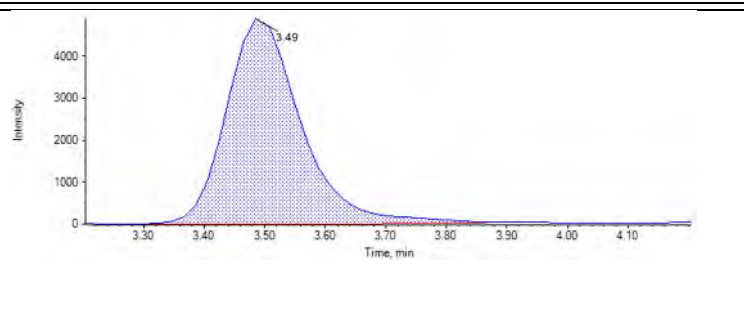




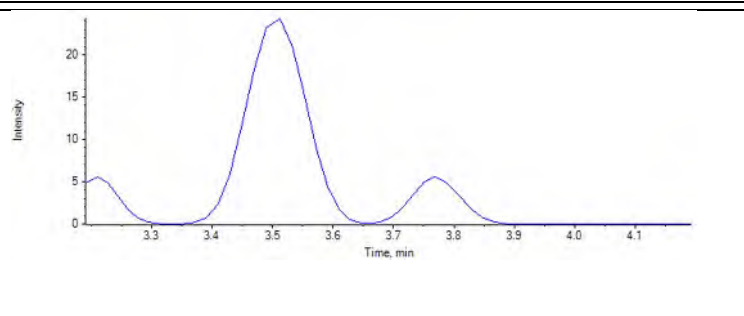
JU13 ICC	
RT (Exp. RT):	3.50 (3.50) min
Calculated Conc:	101.639845 ng/L
Area:	3.247e4
Modified:	(False)



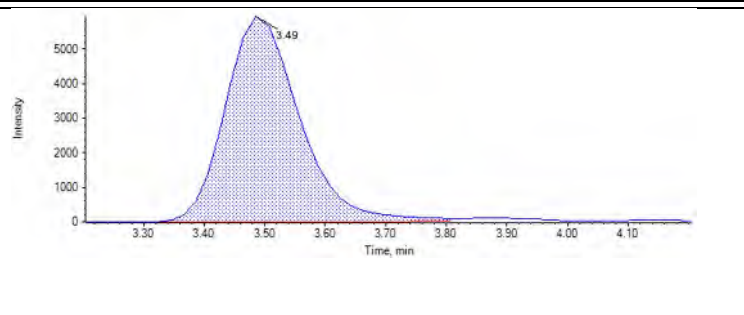
JU38 Branch	
RT (Exp. RT):	3.49 (3.50) min
Calculated Conc:	114.007262 ng/L
Area:	4.202e4
Modified:	(False)



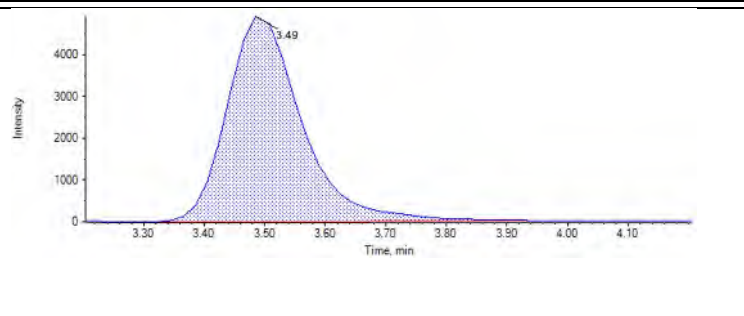
MeOH	
RT (Exp. RT):	N/A (3.50) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



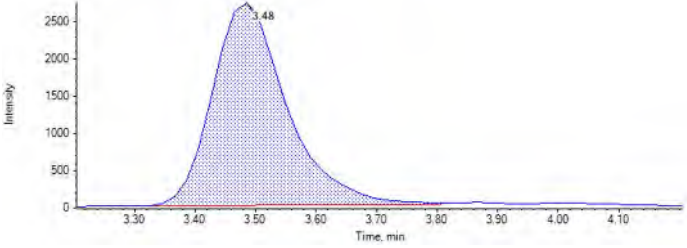
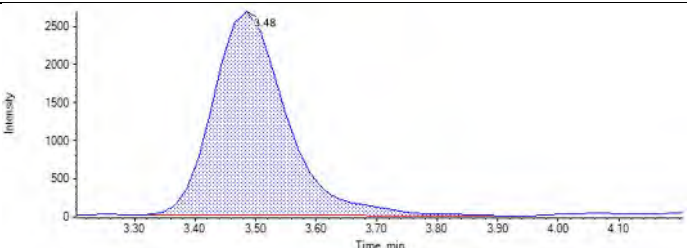
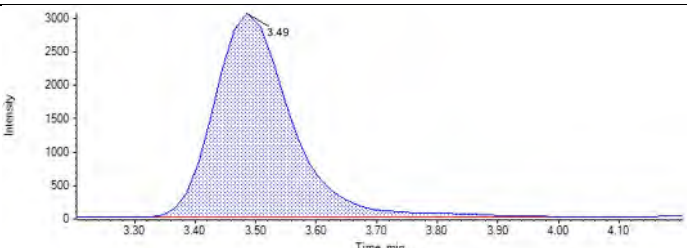
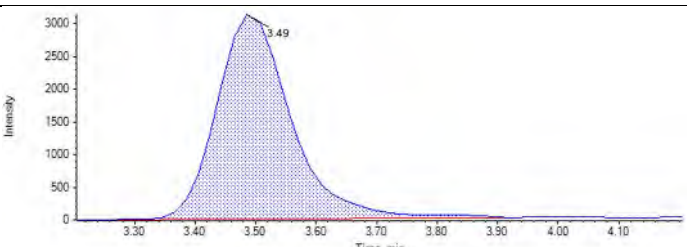
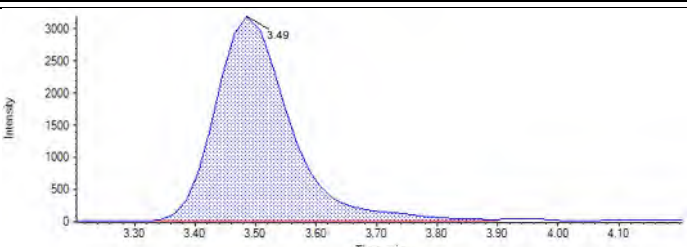
CQ320PB-FS(3)	
RT (Exp. RT):	3.49 (3.50) min
Calculated Conc:	113.681098 ng/L
Area:	5.058e4
Modified:	(False)

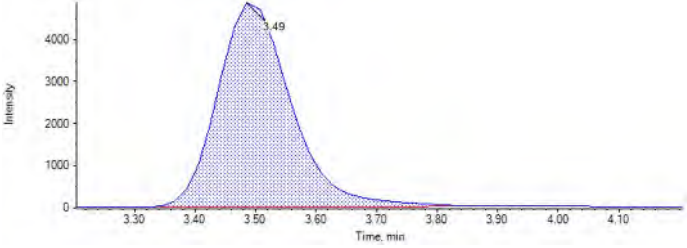
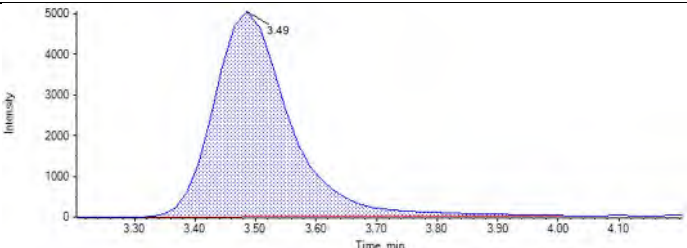
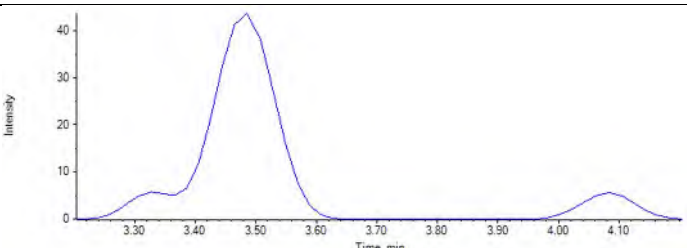
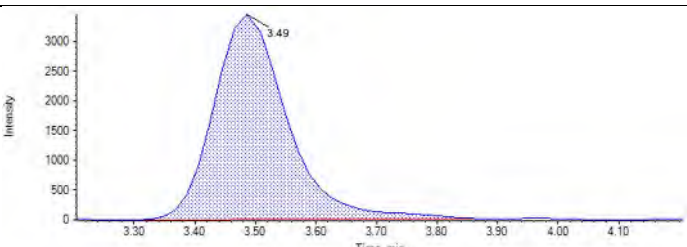
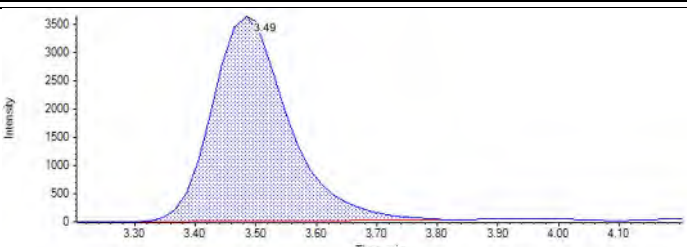


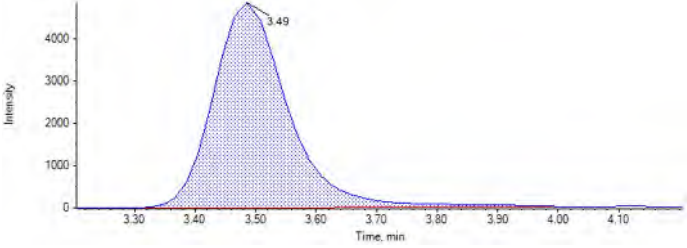
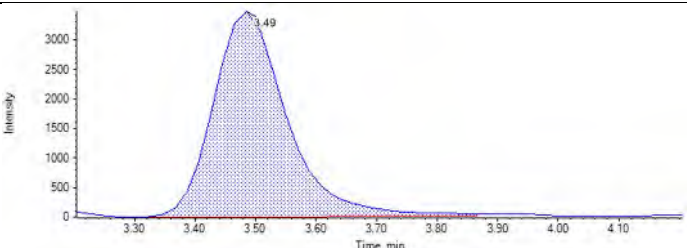
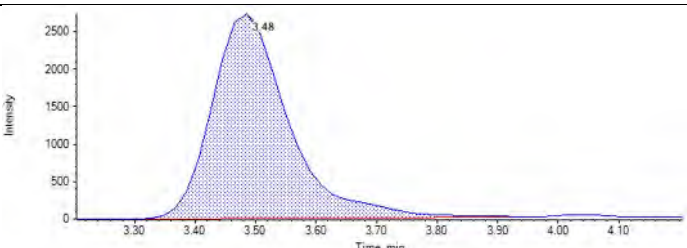
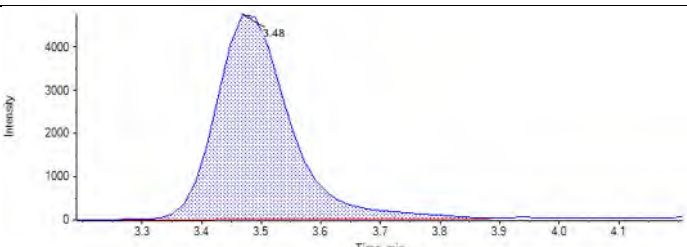
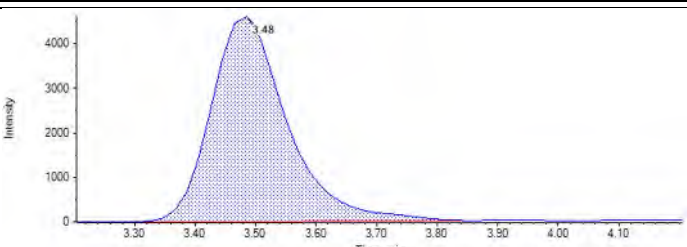
CQ321LCS-FS(3)	
RT (Exp. RT):	3.49 (3.50) min
Calculated Conc:	109.370807 ng/L
Area:	4.222e4
Modified:	(False)





<p>J5387-FS(3)</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 102.798907 ng/L</p> <p>Area: 2.330e4</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 97.405734 ng/L</p> <p>Area: 2.252e4</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 126.527929 ng/L</p> <p>Area: 2.686e4</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 74.612537 ng/L</p> <p>Area: 2.673e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 128.223407 ng/L</p> <p>Area: 2.735e4</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 109.320072 ng/L</p> <p>Area: 4.091e4</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 107.888264 ng/L</p> <p>Area: 4.368e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 94.932677 ng/L</p> <p>Area: 2.901e4</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 89.574042 ng/L</p> <p>Area: 3.170e4</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 99.654796 ng/L</p> <p>Area: 4.152e4</p> <p>Modified: (False)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 122.358209 ng/L</p> <p>Area: 2.928e4</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 81.897544 ng/L</p> <p>Area: 2.400e4</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 123.500991 ng/L</p> <p>Area: 4.077e4</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 103.306758 ng/L</p> <p>Area: 4.025e4</p> <p>Modified: (False)</p>	

**Analyte:** 13C2-PFTeDA (715.0 / 670.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

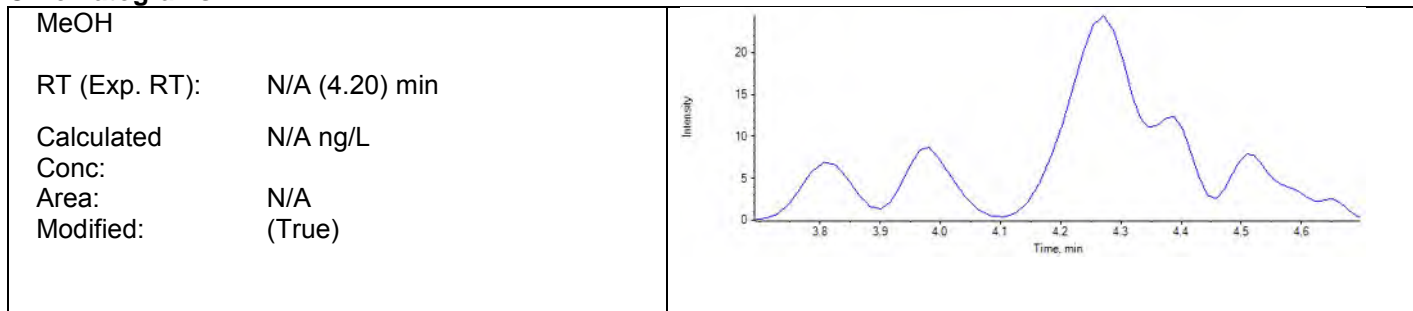
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	36180	4.29	41340	100.00000	98.780838	99
JU05	Standard	3/28/2018 7:57:43 PM	29590	4.29	33110	100.00000	100.873108	101
JU06	Standard	3/28/2018 8:08:31 PM	30760	4.29	38450	100.00000	90.292476	90
JU07	Standard	3/28/2018 8:19:19 PM	33650	4.28	41500	100.00000	91.522138	92
JU08	Standard	3/28/2018 8:30:06 PM	30280	4.28	35120	100.00000	97.297832	97
JU09	Standard	3/28/2018 8:40:53 PM	32890	4.28	38600	100.00000	96.155253	96
JU10	Standard	3/28/2018 8:51:40 PM	30100	4.28	33750	100.00000	100.676902	101
JU11	Standard	3/28/2018 9:02:26 PM	32780	4.28	35090	100.00000	105.461150	105
JU12	Standard	3/28/2018 9:13:13 PM	51080	4.28	48470	100.00000	118.940303	119
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	33830	4.28	42790	100.00000	89.242923	89
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	28620	4.27	34240	100.00000	94.341562	94
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	36250	4.27	39510	100.00000	103.557432	104
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	22890	4.27	47690	100.00000	54.171985	54
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	26510	4.27	41370	100.00000	72.315175	72
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	15240	4.26	24290	100.00000	70.811639	71
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	15740	4.26	24780	100.00000	71.686981	72
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	19790	4.27	22750	100.00000	98.194041	98

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	22930	4.26	38400	100.00000	67.400025	67
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	16090	4.26	22860	100.00000	79.456970	79
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	18340	4.26	40110	100.00000	51.609963	52
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	39060	4.26	43390	100.00000	101.596056	102
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	16530	4.26	32750	100.00000	56.971393	57
<del>J5394-FS(4)</del>	<del>Quality Control</del>	<del>3/29/2018 12:48:42 AM</del>	<del>18970</del>	<del>4.26</del>	<del>37930</del>	<del>100.00000</del>	<del>56.453210</del>	<del>56</del>
J5394-FS-D(5)	Quality Control	3/29/2018 12:59:28 AM	36010	4.26	44650	100.00000	91.016057	91
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	14060	4.26	25650	100.00000	61.844859	62
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	15180	4.26	31410	100.00000	54.532648	55
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	26240	4.25	35380	100.00000	83.717064	84
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	38240	4.25	41760	100.00000	103.355281	103

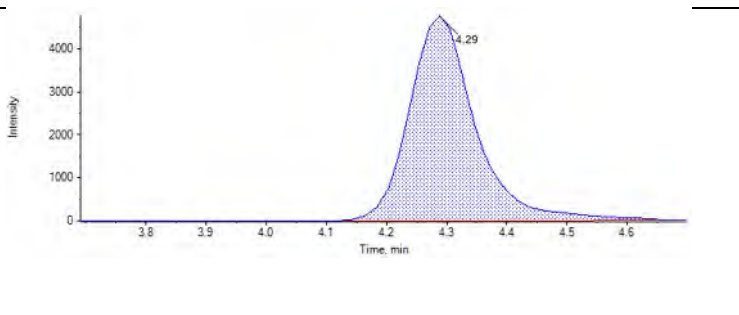
Dilution not needed. DMS 4/6/2018

**Chromatograms:**

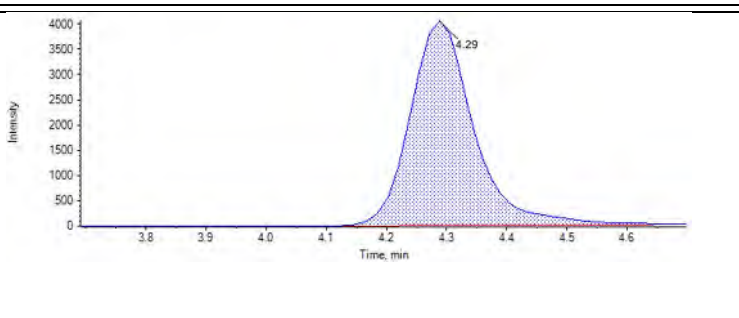




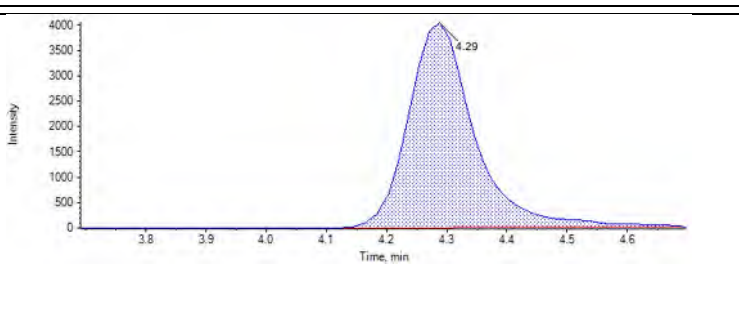
JU04	
RT (Exp. RT):	4.29 (4.20) min
Calculated Conc:	98.780838 ng/L
Area:	3.618e4
Modified:	(False)



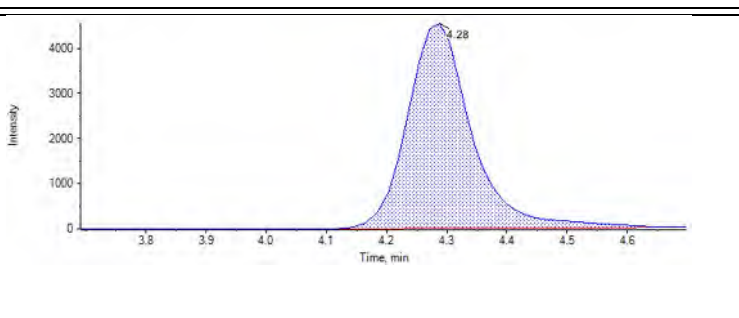
JU05	
RT (Exp. RT):	4.29 (4.20) min
Calculated Conc:	100.873108 ng/L
Area:	2.959e4
Modified:	(False)



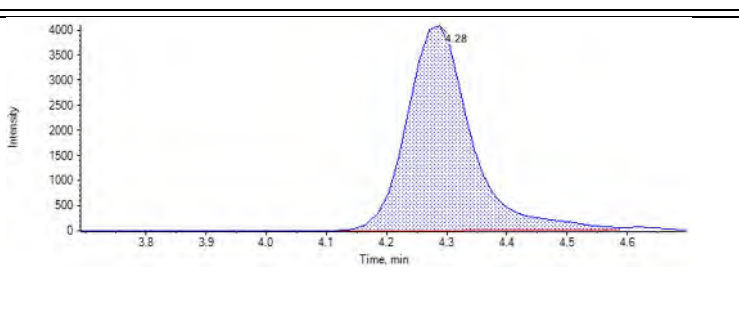
JU06	
RT (Exp. RT):	4.29 (4.20) min
Calculated Conc:	90.292476 ng/L
Area:	3.076e4
Modified:	(False)



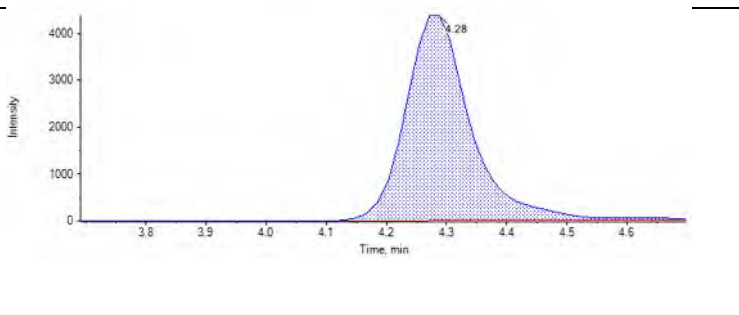
JU07	
RT (Exp. RT):	4.28 (4.20) min
Calculated Conc:	91.522138 ng/L
Area:	3.365e4
Modified:	(False)



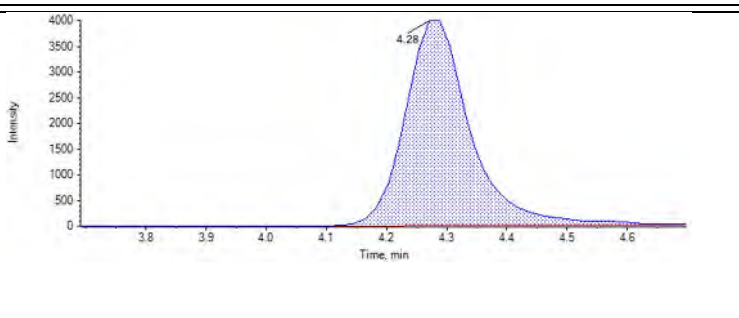
JU08	
RT (Exp. RT):	4.28 (4.20) min
Calculated Conc:	97.297832 ng/L
Area:	3.028e4
Modified:	(False)



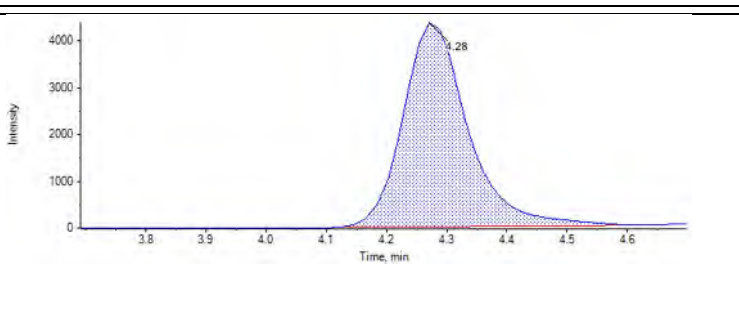
JU09  
 RT (Exp. RT): 4.28 (4.20) min  
 Calculated Conc: 96.155253 ng/L  
 Area: 3.289e4  
 Modified: (False)



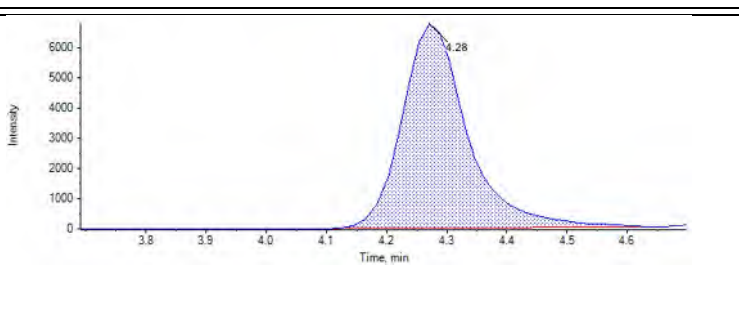
JU10  
 RT (Exp. RT): 4.28 (4.20) min  
 Calculated Conc: 100.676902 ng/L  
 Area: 3.010e4  
 Modified: (False)



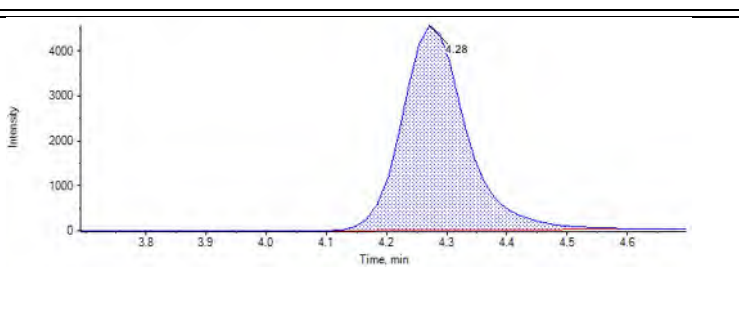
JU11  
 RT (Exp. RT): 4.28 (4.20) min  
 Calculated Conc: 105.461150 ng/L  
 Area: 3.278e4  
 Modified: (False)



JU12  
 RT (Exp. RT): 4.28 (4.20) min  
 Calculated Conc: 118.940303 ng/L  
 Area: 5.108e4  
 Modified: (False)

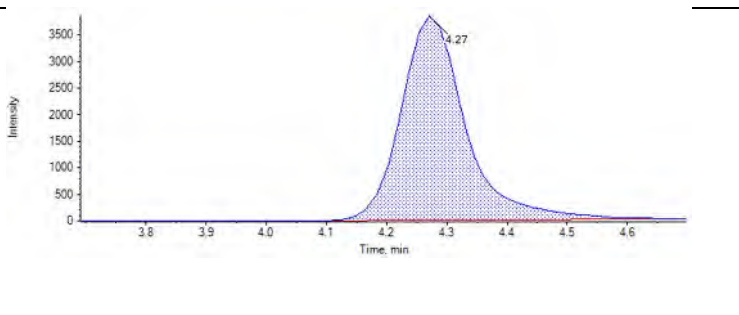


JP83 IB  
 RT (Exp. RT): 4.28 (4.20) min  
 Calculated Conc: 89.242923 ng/L  
 Area: 3.383e4  
 Modified: (False)

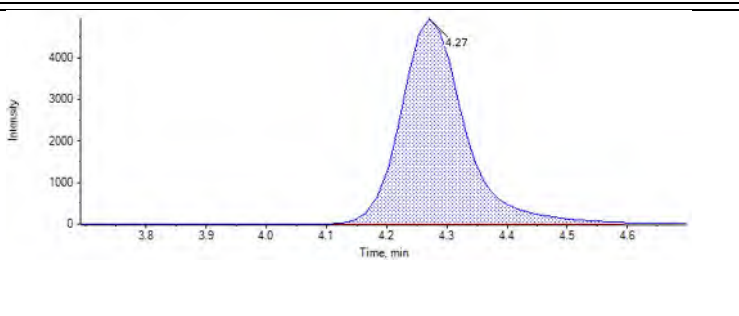




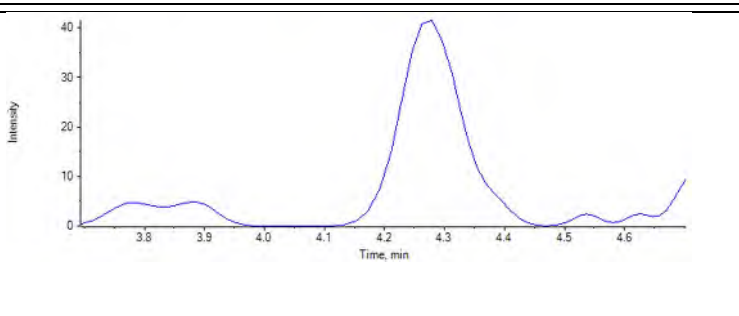
JU13 ICC	
RT (Exp. RT):	4.27 (4.20) min
Calculated Conc:	94.341562 ng/L
Area:	2.862e4
Modified:	(False)



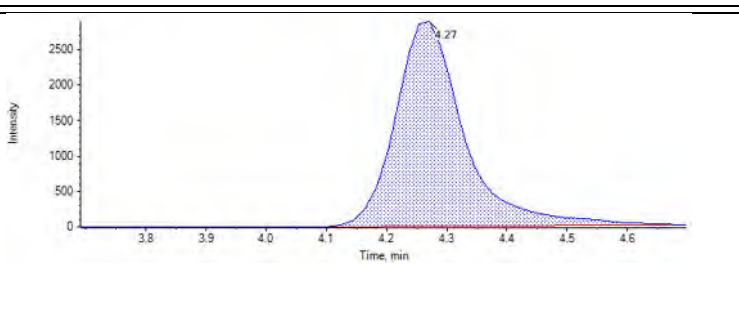
JU38 Branch	
RT (Exp. RT):	4.27 (4.20) min
Calculated Conc:	103.557432 ng/L
Area:	3.625e4
Modified:	(False)



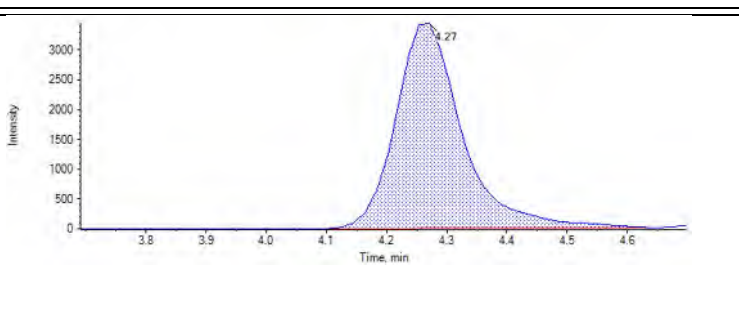
MeOH	
RT (Exp. RT):	N/A (4.20) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)

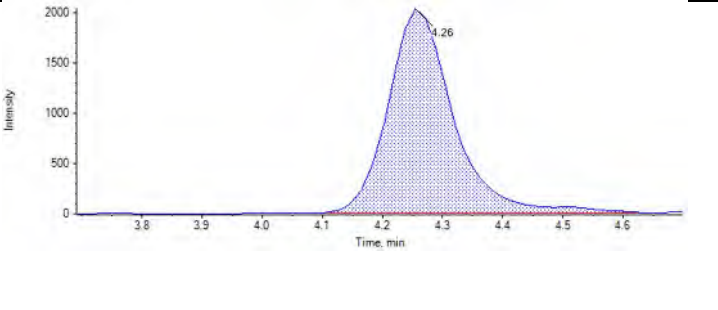
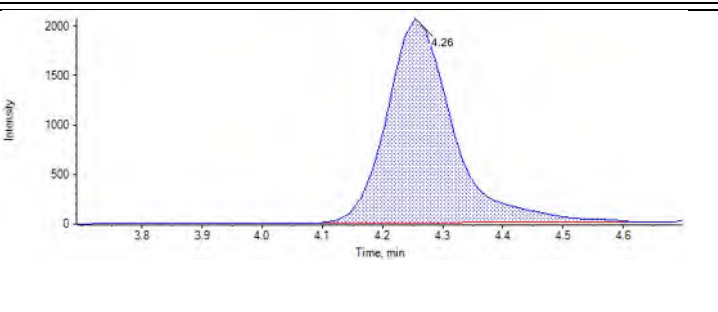
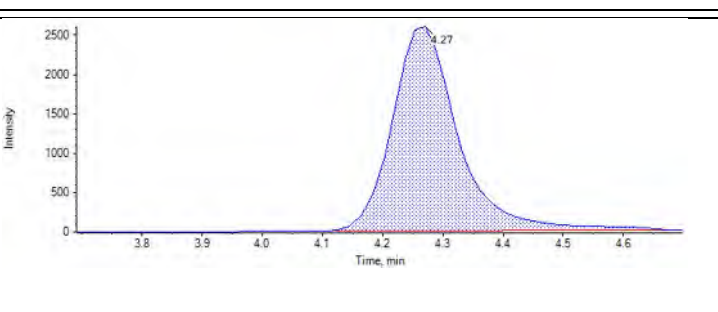
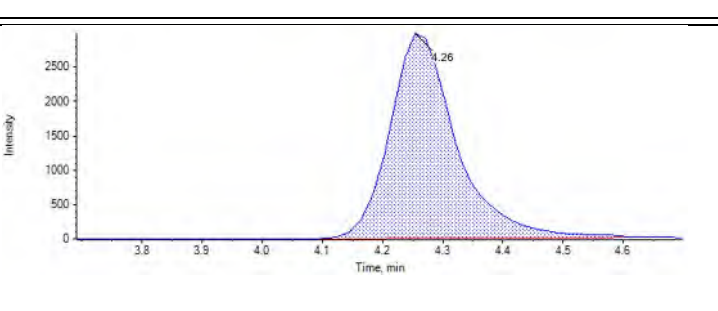
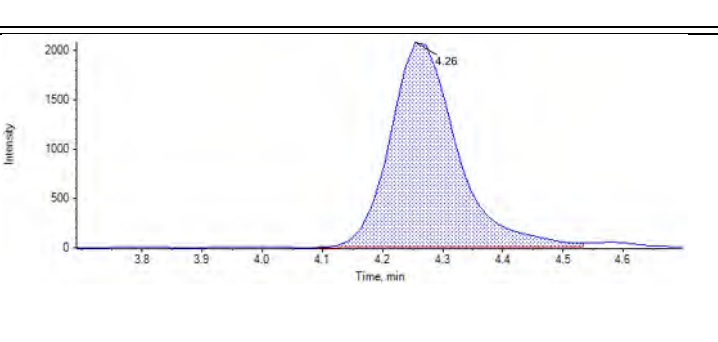


CQ320PB-FS(3)	
RT (Exp. RT):	4.27 (4.20) min
Calculated Conc:	54.171985 ng/L
Area:	2.289e4
Modified:	(False)

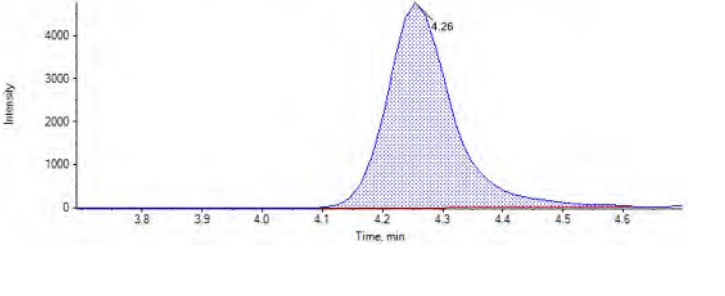
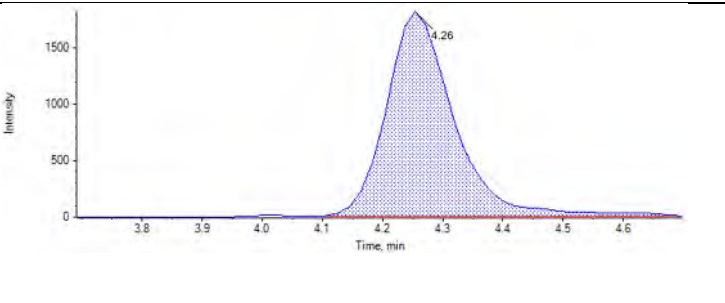
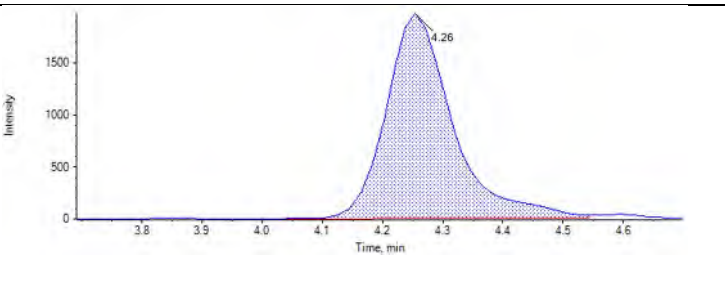
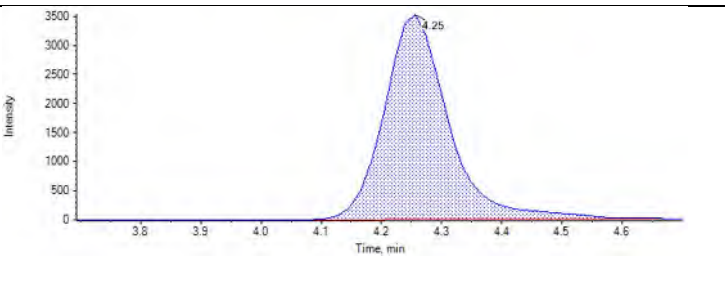
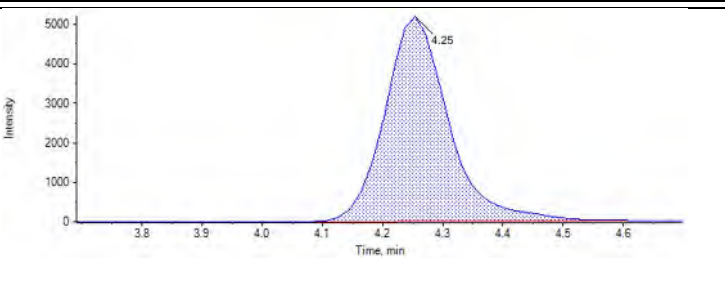


CQ321LCS-FS(3)	
RT (Exp. RT):	4.27 (4.20) min
Calculated Conc:	72.315175 ng/L
Area:	2.651e4
Modified:	(False)



<p>J5387-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 70.811639 ng/L</p> <p>Area: 1.524e4</p> <p>Modified: (False)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 71.686981 ng/L</p> <p>Area: 1.574e4</p> <p>Modified: (False)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 4.27 (4.20) min</p> <p>Calculated Conc: 98.194041 ng/L</p> <p>Area: 1.979e4</p> <p>Modified: (False)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 67.400025 ng/L</p> <p>Area: 2.293e4</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 79.456970 ng/L</p> <p>Area: 1.609e4</p> <p>Modified: (False)</p>	

<p>J5390-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 51.609963 ng/L</p> <p>Area: 1.834e4</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 101.596056 ng/L</p> <p>Area: 3.906e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 56.971393 ng/L</p> <p>Area: 1.653e4</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 56.453210 ng/L</p> <p>Area: 1.897e4</p> <p>Modified: (False)</p>	

<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 91.016057 ng/L</p> <p>Area: 3.601e4</p> <p>Modified: (False)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 61.844859 ng/L</p> <p>Area: 1.406e4</p> <p>Modified: (False)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 54.532648 ng/L</p> <p>Area: 1.518e4</p> <p>Modified: (False)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 4.25 (4.20) min</p> <p>Calculated Conc: 83.717064 ng/L</p> <p>Area: 2.624e4</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 4.25 (4.20) min</p> <p>Calculated Conc: 103.355281 ng/L</p> <p>Area: 3.824e4</p> <p>Modified: (False)</p>	

**Analyte:** 13C3-PFBS (302.0 / 99.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

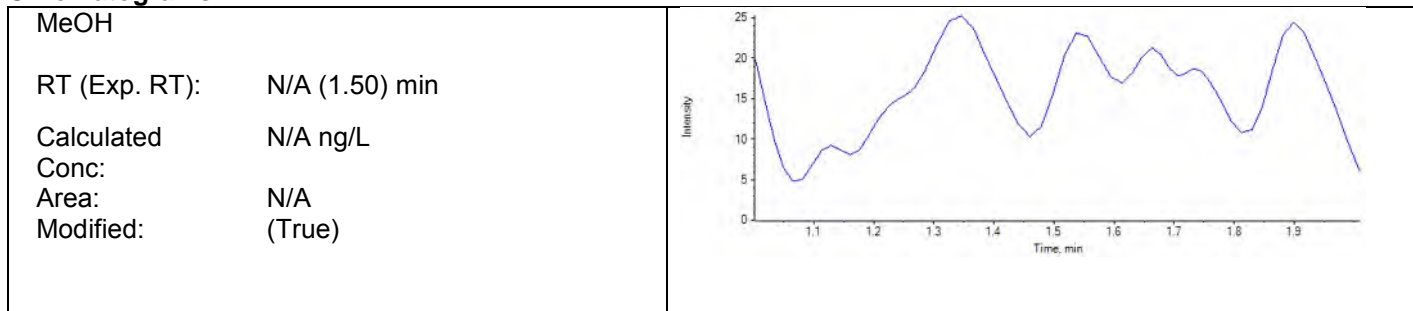
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	7624	1.42	10060	92.90000	87.722940	94
JU05	Standard	3/28/2018 7:57:43 PM	5397	1.42	8431	92.90000	74.118492	80
JU06	Standard	3/28/2018 8:08:31 PM	7137	1.43	9601	92.90000	86.073128	93
JU07	Standard	3/28/2018 8:19:19 PM	8127	1.43	10710	92.90000	87.883651	95
JU08	Standard	3/28/2018 8:30:06 PM	6981	1.43	8102	92.90000	99.774510	107
JU09	Standard	3/28/2018 8:40:53 PM	6174	1.42	10010	92.90000	71.426522	77
JU10	Standard	3/28/2018 8:51:40 PM	6280	1.42	7234	92.90000	100.519016	108
JU11	Standard	3/28/2018 9:02:26 PM	7512	1.42	7902	92.90000	110.076960	118
JU12	Standard	3/28/2018 9:13:13 PM	10640	1.41	10400	92.90000	118.504782	128
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	7792	1.42	9601	92.90000	93.966967	101
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	5272	1.42	9201	92.90000	66.345718	71
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	6302	1.41	10110	92.90000	72.148353	78
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	9613	1.41	9743	92.90000	114.244786	123
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	7627	1.41	8607	92.90000	102.616853	110
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	3542	1.38	4915	92.90000	83.444488	90
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	3615	1.38	4974	92.90000	84.154778	91
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	3960	1.37	4805	92.90000	95.422405	103

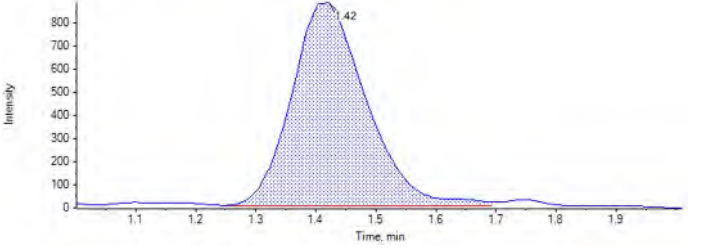
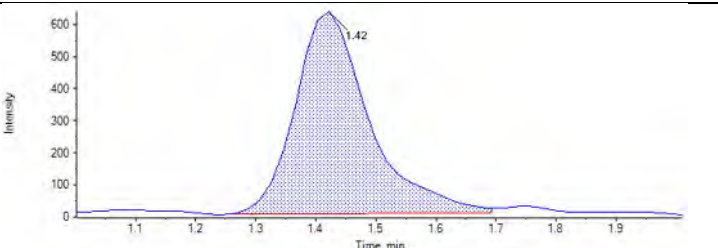
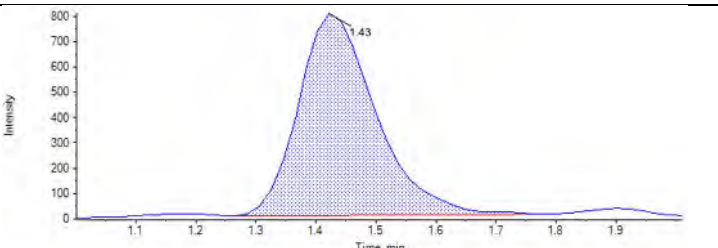
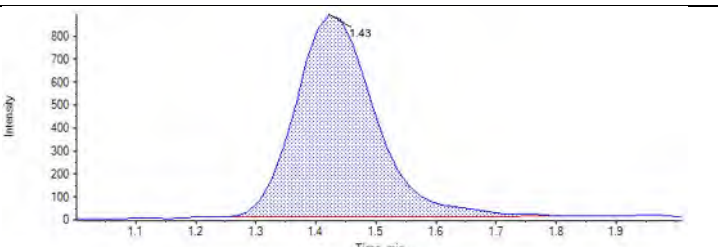
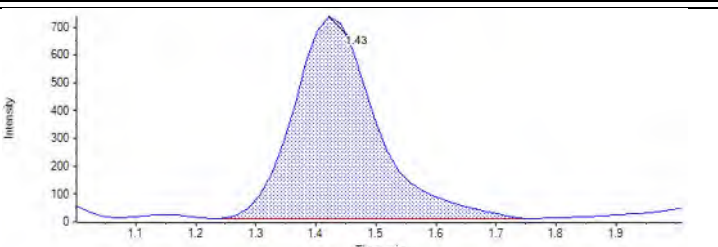
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	8645	1.41	9823	92.90000	101.897739	110
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	5512	1.41	5273	92.90000	121.043936	130
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	8134	1.41	7482	92.90000	125.892589	136
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	9332	1.41	10350	92.90000	104.354706	112
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	7270	1.41	6840	92.90000	123.066733	132
J5394-FS(4)	Quality Control	3/29/2018 12:48:42 AM	7342	1.41	7055	92.90000	120.510090	130
<del>J5394-FS-D(5)</del>	<del>Quality Control</del>	<del>3/29/2018 12:59:28 AM</del>	<del>8894</del>	<del>1.41</del>	<del>10830</del>	<del>92.90000</del>	<del>95.061858</del>	<del>102</del>
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	6440	1.40	6163	92.90000	120.991638	130
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	8150	1.40	7646	92.90000	123.429728	133
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	7129	1.40	8738	92.90000	94.467167	102
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	8791	1.40	9198	92.90000	110.658758	119

Dilution not needed. DMS 4/6/2018

**Chromatograms:**



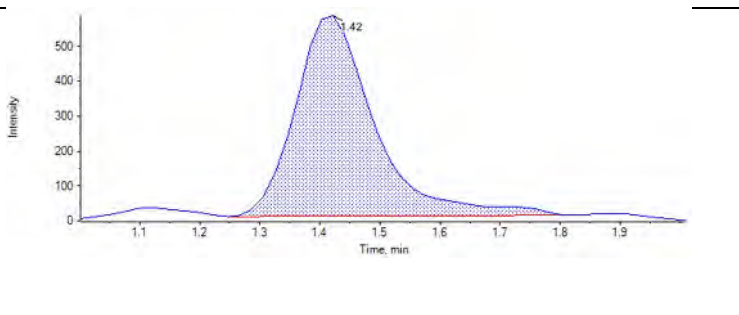


<p>JU04</p> <p>RT (Exp. RT): 1.42 (1.50) min</p> <p>Calculated Conc: 87.722940 ng/L</p> <p>Area: 7.624e3</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.42 (1.50) min</p> <p>Calculated Conc: 74.118492 ng/L</p> <p>Area: 5.397e3</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.43 (1.50) min</p> <p>Calculated Conc: 86.073128 ng/L</p> <p>Area: 7.137e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 1.43 (1.50) min</p> <p>Calculated Conc: 87.883651 ng/L</p> <p>Area: 8.127e3</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.43 (1.50) min</p> <p>Calculated Conc: 99.774510 ng/L</p> <p>Area: 6.981e3</p> <p>Modified: (False)</p>	

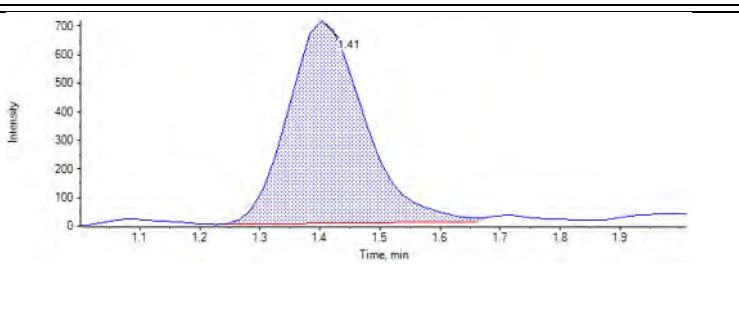


<p>JU09</p> <p>RT (Exp. RT): 1.42 (1.50) min</p> <p>Calculated Conc: 71.426522 ng/L</p> <p>Area: 6.174e3</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.42 (1.50) min</p> <p>Calculated Conc: 100.519016 ng/L</p> <p>Area: 6.280e3</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.42 (1.50) min</p> <p>Calculated Conc: 110.076960 ng/L</p> <p>Area: 7.512e3</p> <p>Modified: (True)</p>	
<p>JU12</p> <p>RT (Exp. RT): 1.41 (1.50) min</p> <p>Calculated Conc: 118.504782 ng/L</p> <p>Area: 1.064e4</p> <p>Modified: (True)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.42 (1.50) min</p> <p>Calculated Conc: 93.966967 ng/L</p> <p>Area: 7.792e3</p> <p>Modified: (False)</p>	

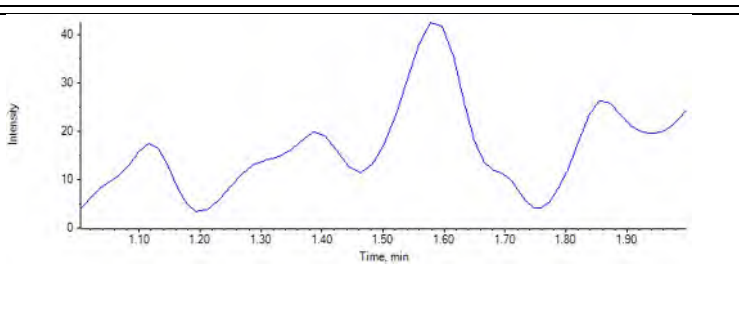
JU13 ICC	
RT (Exp. RT):	1.42 (1.50) min
Calculated Conc:	66.345718 ng/L
Area:	5.272e3
Modified:	(False)



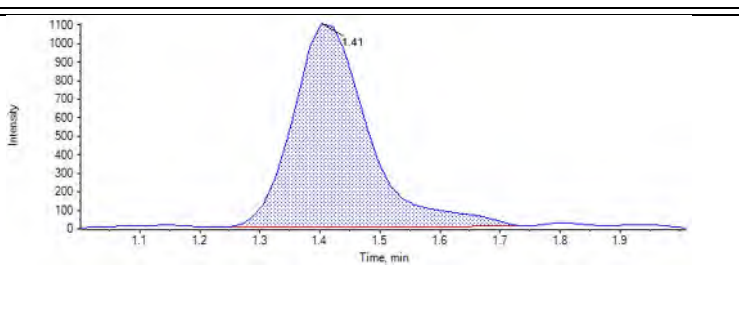
JU38 Branch	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	72.148353 ng/L
Area:	6.302e3
Modified:	(False)



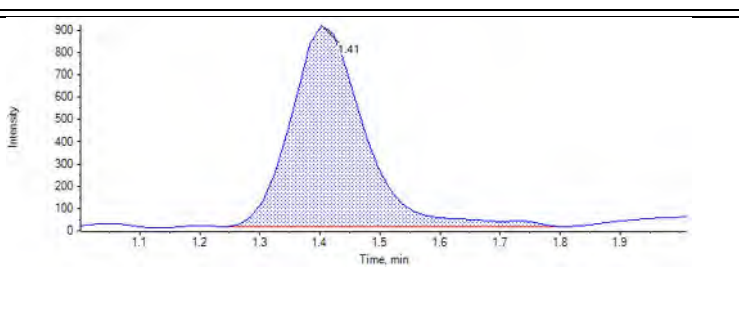
MeOH	
RT (Exp. RT):	N/A (1.50) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



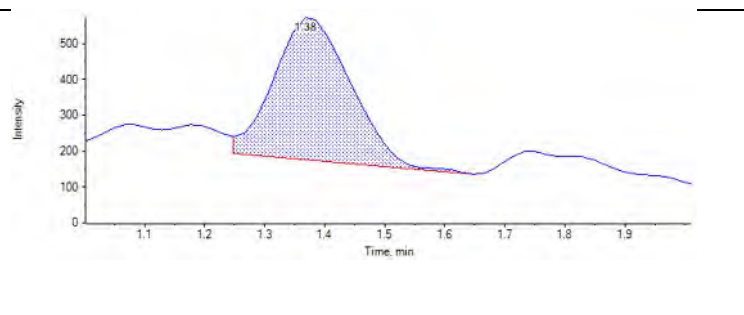
CQ320PB-FS(3)	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	114.244786 ng/L
Area:	9.613e3
Modified:	(False)



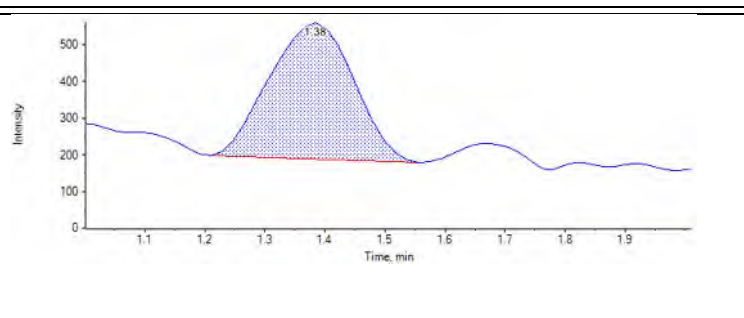
CQ321LCS-FS(3)	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	102.616853 ng/L
Area:	7.627e3
Modified:	(False)



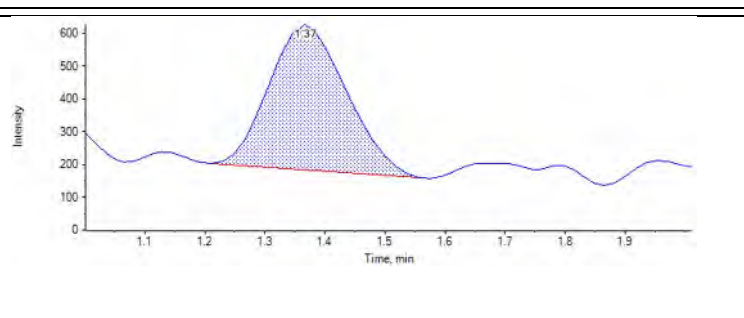
J5387-FS(3)	
RT (Exp. RT):	1.38 (1.50) min
Calculated Conc:	83.444488 ng/L
Area:	3.542e3
Modified:	(False)



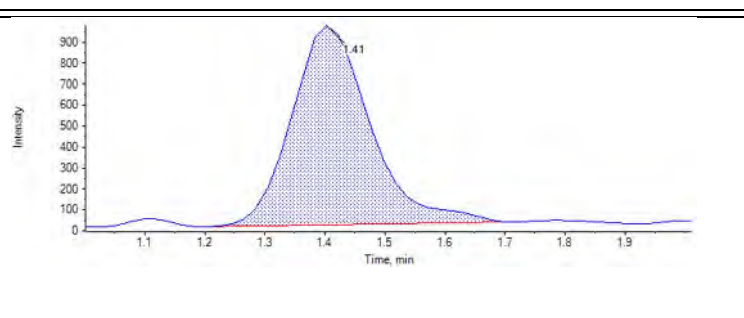
J5387MS-FS(3)	
RT (Exp. RT):	1.38 (1.50) min
Calculated Conc:	84.154778 ng/L
Area:	3.615e3
Modified:	(False)



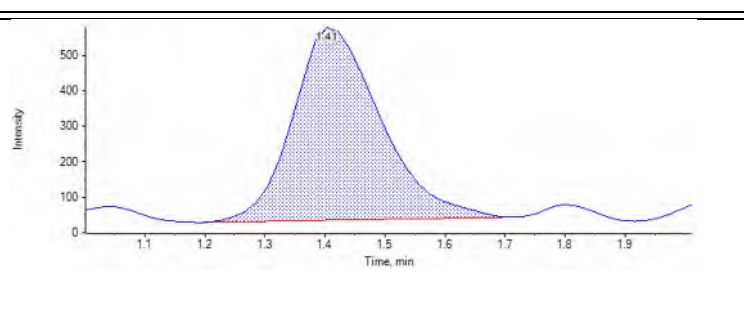
J5387MSD-FS(3)	
RT (Exp. RT):	1.37 (1.50) min
Calculated Conc:	95.422405 ng/L
Area:	3.960e3
Modified:	(False)



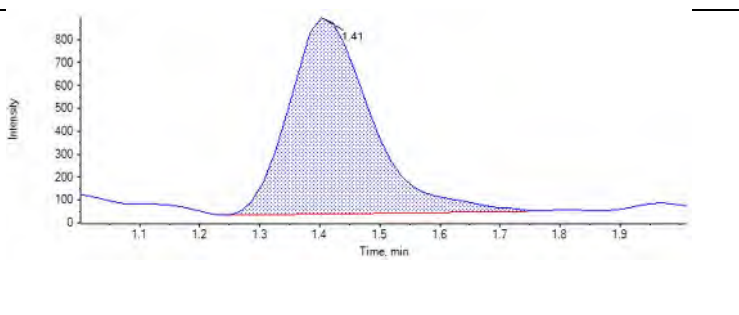
J5388-FS(3)	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	101.897739 ng/L
Area:	8.645e3
Modified:	(False)



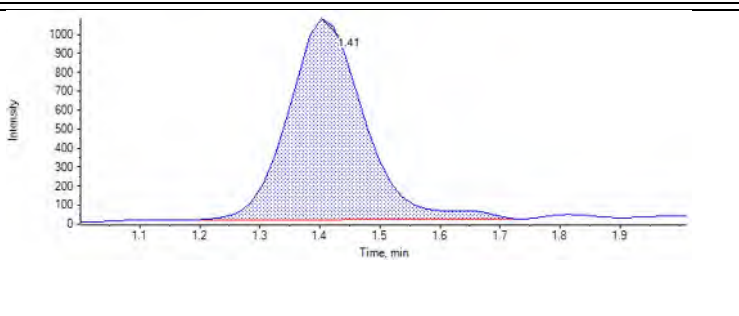
J5389-FS(3)	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	121.043936 ng/L
Area:	5.512e3
Modified:	(False)



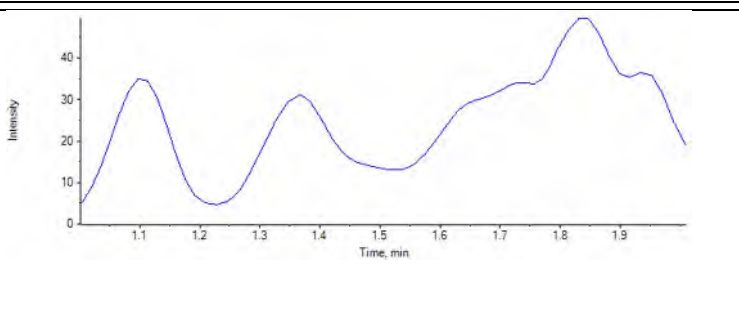
J5390-FS(3)	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	125.892589 ng/L
Area:	8.134e3
Modified:	(False)



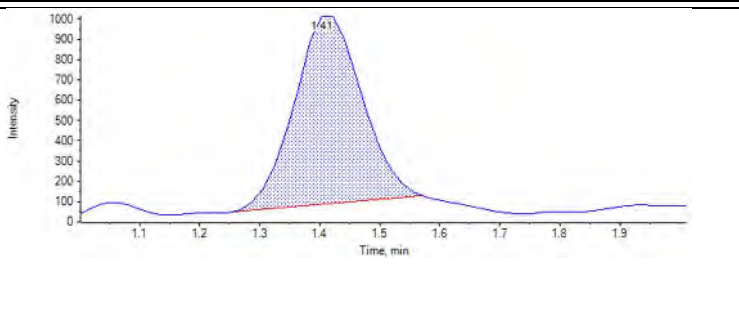
JU09 CCV	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	104.354706 ng/L
Area:	9.332e3
Modified:	(False)



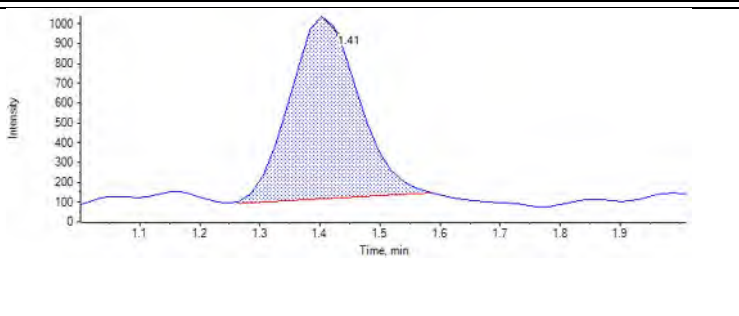
MeOH	
RT (Exp. RT):	N/A (1.50) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)

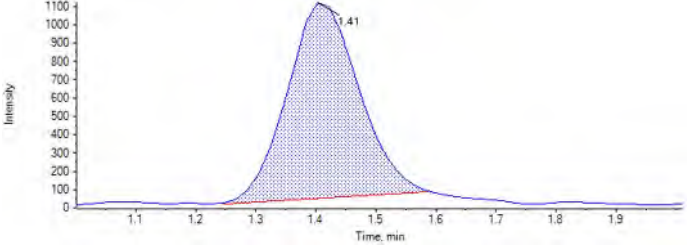
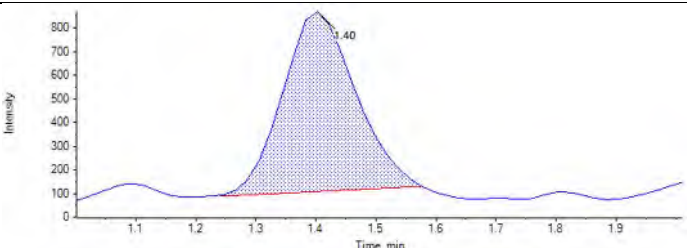
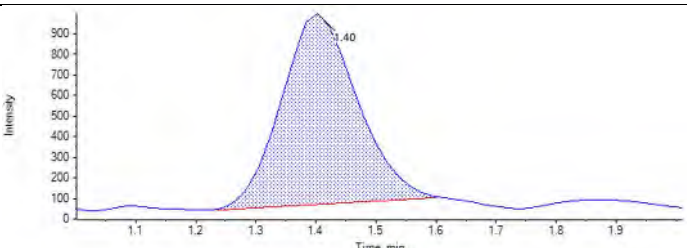
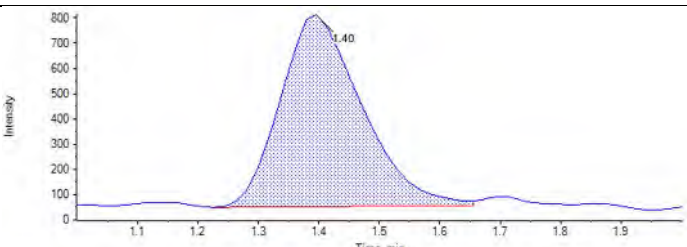
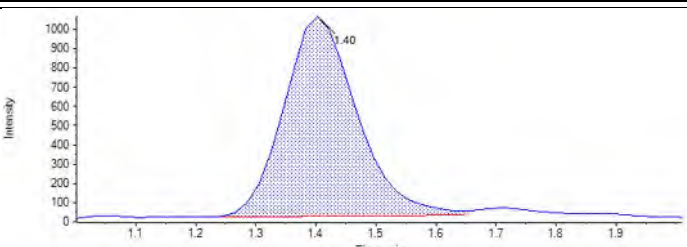


J5392-FS(3)	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	123.066733 ng/L
Area:	7.270e3
Modified:	(True)



J5394-FS(4)	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	120.510090 ng/L
Area:	7.342e3
Modified:	(True)



<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 1.41 (1.50) min</p> <p>Calculated Conc: 95.061858 ng/L</p> <p>Area: 8.894e3</p> <p>Modified: (True)</p>	
<p>J5395-FS(3)</p> <p>RT (Exp. RT): 1.40 (1.50) min</p> <p>Calculated Conc: 120.991638 ng/L</p> <p>Area: 6.440e3</p> <p>Modified: (True)</p>	
<p>J5396-FS(3)</p> <p>RT (Exp. RT): 1.40 (1.50) min</p> <p>Calculated Conc: 123.429728 ng/L</p> <p>Area: 8.150e3</p> <p>Modified: (True)</p>	
<p>J5397-FS(3)</p> <p>RT (Exp. RT): 1.40 (1.50) min</p> <p>Calculated Conc: 94.467167 ng/L</p> <p>Area: 7.129e3</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 1.40 (1.50) min</p> <p>Calculated Conc: 110.658758 ng/L</p> <p>Area: 8.791e3</p> <p>Modified: (False)</p>	



**Analyte:** 13C3-PFHxS (402.0 / 99.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

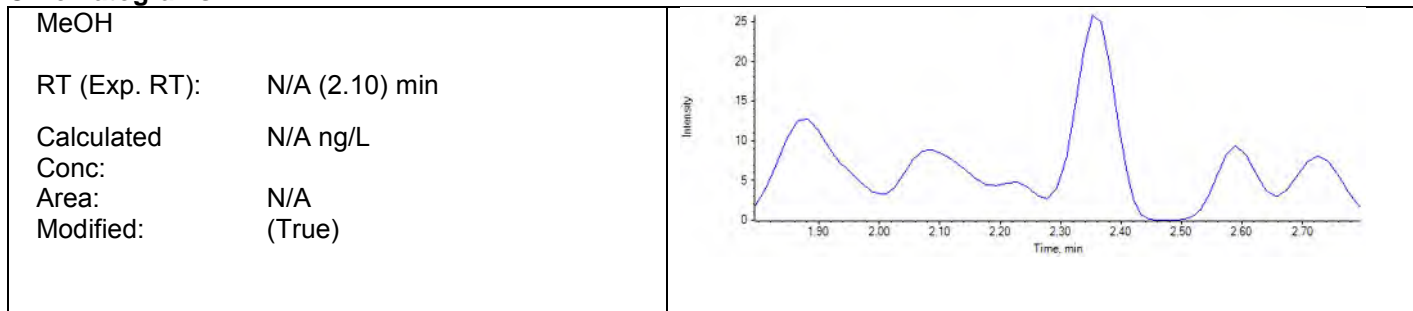
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	7553	2.10	10060	94.60000	97.984219	104
JU05	Standard	3/28/2018 7:57:43 PM	5805	2.10	8431	94.60000	89.880204	95
JU06	Standard	3/28/2018 8:08:31 PM	7235	2.10	9601	94.60000	98.372029	104
JU07	Standard	3/28/2018 8:19:19 PM	7386	2.09	10710	94.60000	90.052459	95
JU08	Standard	3/28/2018 8:30:06 PM	6117	2.09	8102	94.60000	98.567633	104
JU09	Standard	3/28/2018 8:40:53 PM	5931	2.09	10010	94.60000	77.354532	82
JU10	Standard	3/28/2018 8:51:40 PM	5457	2.09	7234	94.60000	98.463309	104
JU11	Standard	3/28/2018 9:02:26 PM	5943	2.09	7902	94.60000	98.184914	104
JU12	Standard	3/28/2018 9:13:13 PM	8166	2.09	10400	94.60000	102.540701	108
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	7679	2.10	9601	94.60000	104.408395	110
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	5805	2.09	9201	94.60000	82.361526	87
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	6589	2.08	10110	94.60000	85.054152	90
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	7379	2.09	9743	94.60000	98.868285	105
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	7217	2.08	8607	94.60000	109.463965	116
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	3946	2.05	4915	94.60000	104.825521	111
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	3374	2.06	4974	94.60000	88.558795	94
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	3768	2.05	4805	94.60000	102.377139	108

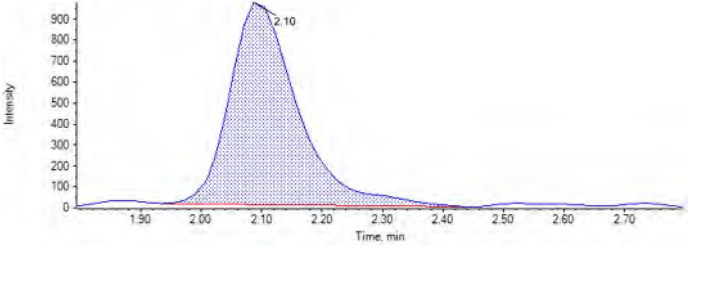
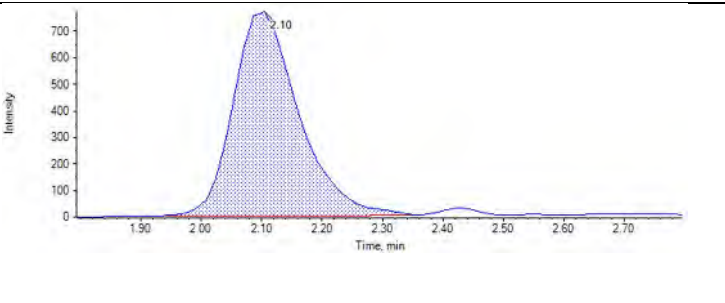
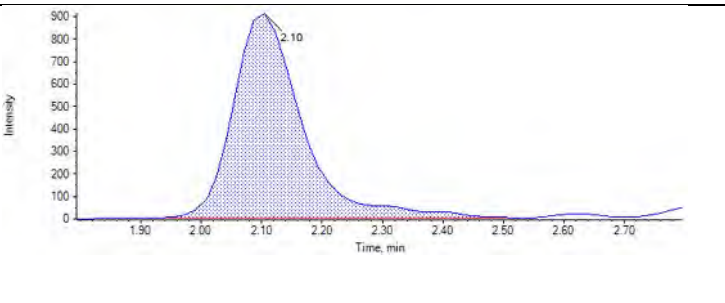
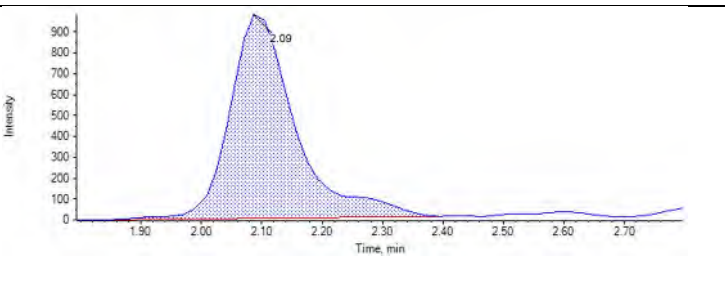
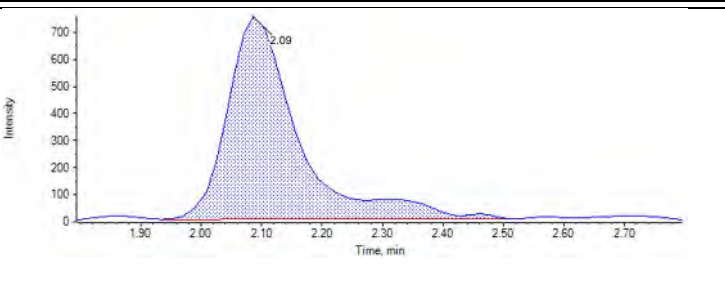
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	6631	2.08	9823	94.60000	88.125694	93
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	5024	2.07	5273	94.60000	124.399273	132
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	6240	2.08	7482	94.60000	108.884340	115
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	8185	2.08	10350	94.60000	103.186018	109
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	5301	2.08	6840	94.60000	101.178285	107
J5394-FS(4)	Quality Control	3/29/2018 12:48:42 AM	6155	2.08	7055	94.60000	113.898692	120
<del>J5394-FS-D(5)</del>	<del>Quality Control</del>	<del>3/29/2018 12:59:28 AM</del>	<del>7281</del>	<del>2.08</del>	<del>10830</del>	<del>94.60000</del>	<del>87.732314</del>	<del>93</del>
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	3937	2.08	6163	94.60000	83.392546	88
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	6264	2.08	7646	94.60000	106.957413	113
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	7852	2.07	8738	94.60000	117.315497	124
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	7136	2.08	9198	94.60000	101.267684	107

Dilution not needed. DMS 4/6/2018

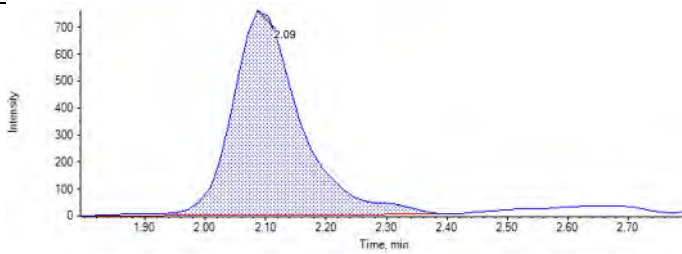
**Chromatograms:**



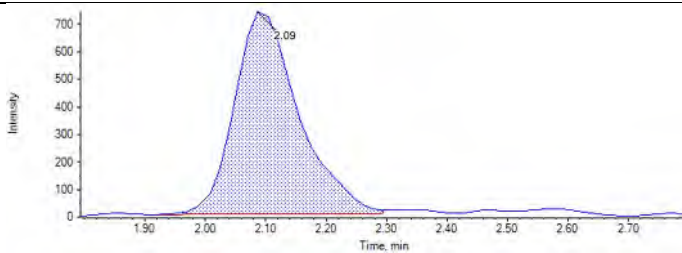


<p>JU04</p> <p>RT (Exp. RT): 2.10 (2.10) min</p> <p>Calculated Conc: 97.984219 ng/L</p> <p>Area: 7.553e3</p> <p>Modified: (False)</p>	 <p>Chromatogram for JU04 showing a peak at 2.10 min. The y-axis is Intensity (0 to 900) and the x-axis is Time, min (1.50 to 2.70). The peak is labeled 2.10.</p>
<p>JU05</p> <p>RT (Exp. RT): 2.10 (2.10) min</p> <p>Calculated Conc: 89.880204 ng/L</p> <p>Area: 5.805e3</p> <p>Modified: (False)</p>	 <p>Chromatogram for JU05 showing a peak at 2.10 min. The y-axis is Intensity (0 to 700) and the x-axis is Time, min (1.50 to 2.70). The peak is labeled 2.10.</p>
<p>JU06</p> <p>RT (Exp. RT): 2.10 (2.10) min</p> <p>Calculated Conc: 98.372029 ng/L</p> <p>Area: 7.235e3</p> <p>Modified: (False)</p>	 <p>Chromatogram for JU06 showing a peak at 2.10 min. The y-axis is Intensity (0 to 900) and the x-axis is Time, min (1.50 to 2.70). The peak is labeled 2.10.</p>
<p>JU07</p> <p>RT (Exp. RT): 2.09 (2.10) min</p> <p>Calculated Conc: 90.052459 ng/L</p> <p>Area: 7.386e3</p> <p>Modified: (False)</p>	 <p>Chromatogram for JU07 showing a peak at 2.09 min. The y-axis is Intensity (0 to 900) and the x-axis is Time, min (1.50 to 2.70). The peak is labeled 2.09.</p>
<p>JU08</p> <p>RT (Exp. RT): 2.09 (2.10) min</p> <p>Calculated Conc: 98.567633 ng/L</p> <p>Area: 6.117e3</p> <p>Modified: (False)</p>	 <p>Chromatogram for JU08 showing a peak at 2.09 min. The y-axis is Intensity (0 to 700) and the x-axis is Time, min (1.50 to 2.70). The peak is labeled 2.09.</p>

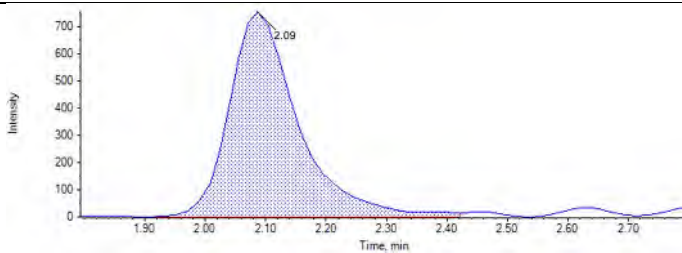
JU09  
RT (Exp. RT): 2.09 (2.10) min  
Calculated Conc: 77.354532 ng/L  
Area: 5.931e3  
Modified: (False)



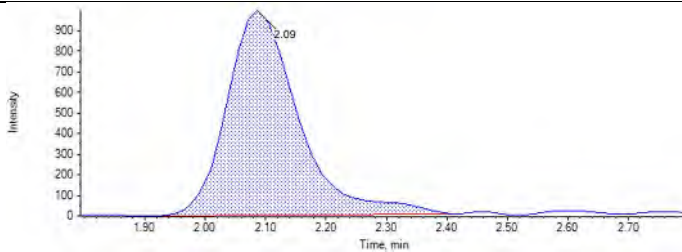
JU10  
RT (Exp. RT): 2.09 (2.10) min  
Calculated Conc: 98.463309 ng/L  
Area: 5.457e3  
Modified: (False)



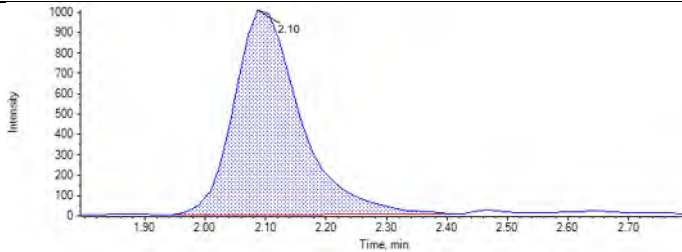
JU11  
RT (Exp. RT): 2.09 (2.10) min  
Calculated Conc: 98.184914 ng/L  
Area: 5.943e3  
Modified: (False)

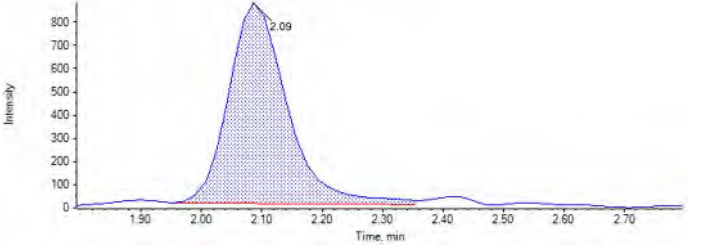
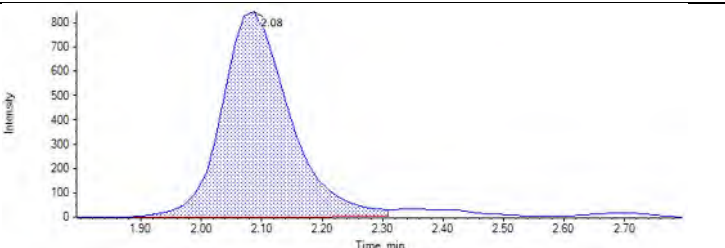
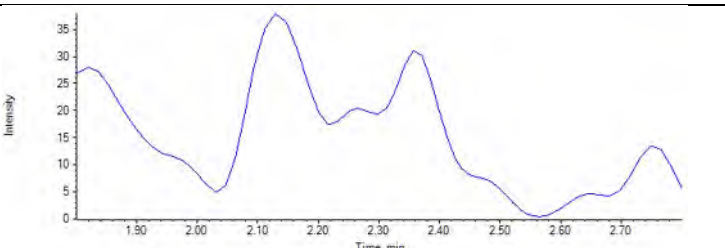
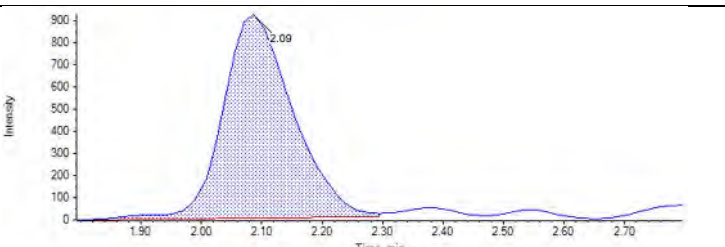
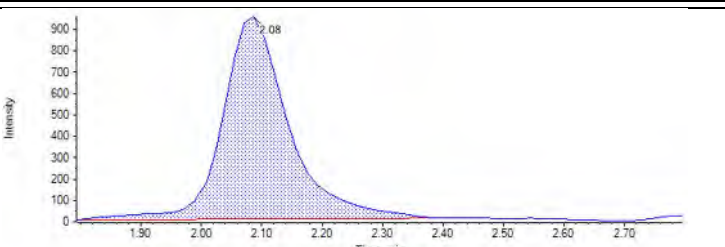


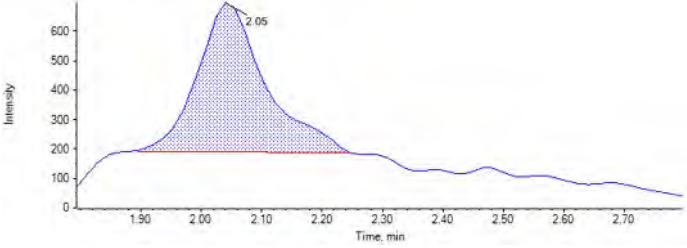
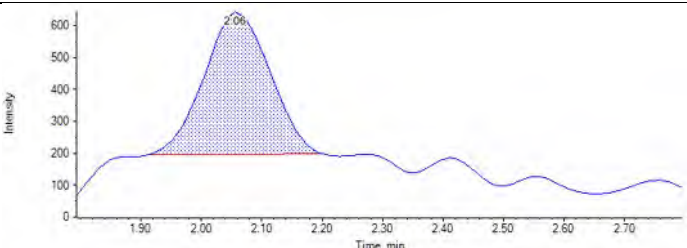
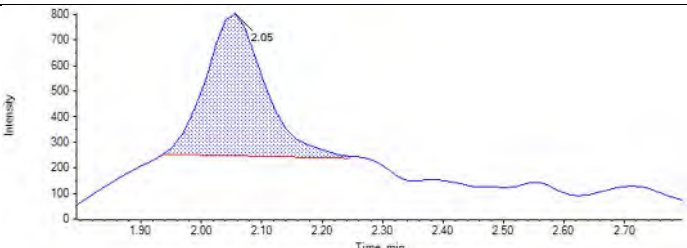
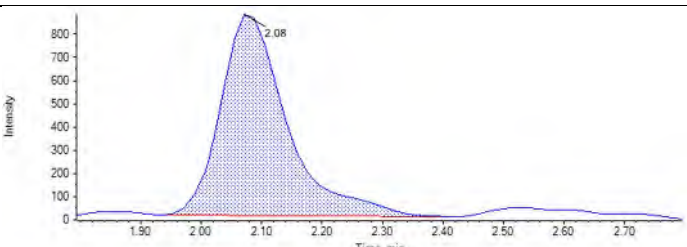
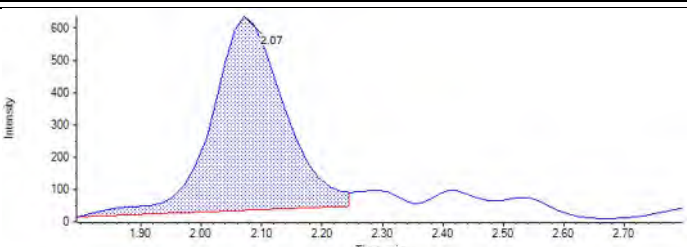
JU12  
RT (Exp. RT): 2.09 (2.10) min  
Calculated Conc: 102.540701 ng/L  
Area: 8.166e3  
Modified: (False)



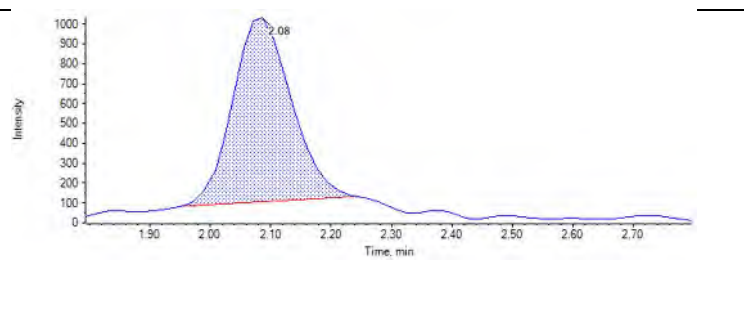
JP83 IB  
RT (Exp. RT): 2.10 (2.10) min  
Calculated Conc: 104.408395 ng/L  
Area: 7.679e3  
Modified: (False)



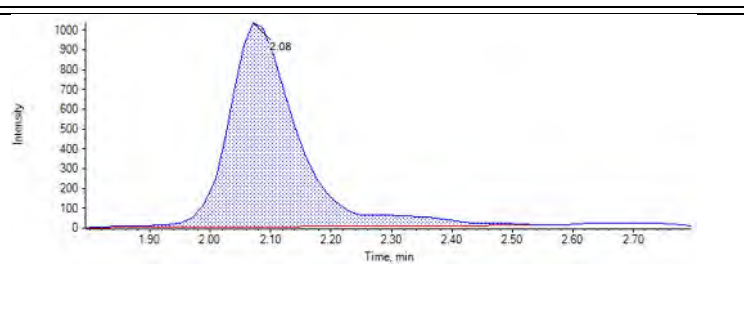
<p>JU13 ICC</p> <p>RT (Exp. RT): 2.09 (2.10) min</p> <p>Calculated Conc: 82.361526 ng/L</p> <p>Area: 5.805e3</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.08 (2.10) min</p> <p>Calculated Conc: 85.054152 ng/L</p> <p>Area: 6.589e3</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.10) min</p> <p>Calculated Conc: 98.868285 ng/L</p> <p>Area: 7.379e3</p> <p>Modified: (False)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 2.08 (2.10) min</p> <p>Calculated Conc: 109.463965 ng/L</p> <p>Area: 7.217e3</p> <p>Modified: (False)</p>	

<p>J5387-FS(3)</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 104.825521 ng/L</p> <p>Area: 3.946e3</p> <p>Modified: (True)</p>	
<p>J5387MS-FS(3)</p> <p>RT (Exp. RT): 2.06 (2.10) min</p> <p>Calculated Conc: 88.558795 ng/L</p> <p>Area: 3.374e3</p> <p>Modified: (True)</p>	
<p>J5387MSD-FS(3)</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 102.377139 ng/L</p> <p>Area: 3.768e3</p> <p>Modified: (True)</p>	
<p>J5388-FS(3)</p> <p>RT (Exp. RT): 2.08 (2.10) min</p> <p>Calculated Conc: 88.125694 ng/L</p> <p>Area: 6.631e3</p> <p>Modified: (False)</p>	
<p>J5389-FS(3)</p> <p>RT (Exp. RT): 2.07 (2.10) min</p> <p>Calculated Conc: 124.399273 ng/L</p> <p>Area: 5.024e3</p> <p>Modified: (False)</p>	

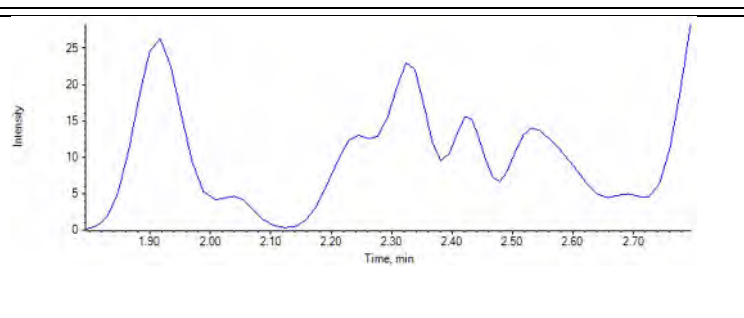
J5390-FS(3)	
RT (Exp. RT):	2.08 (2.10) min
Calculated Conc:	108.884340 ng/L
Area:	6.240e3
Modified:	(True)



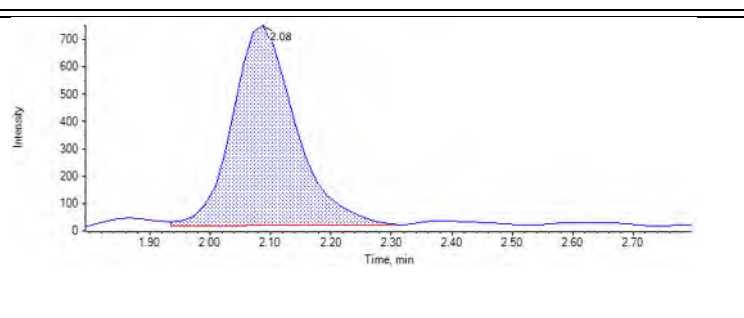
JU09 CCV	
RT (Exp. RT):	2.08 (2.10) min
Calculated Conc:	103.186018 ng/L
Area:	8.185e3
Modified:	(False)



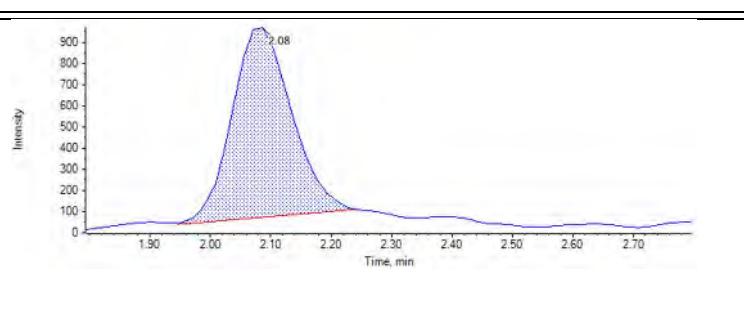
MeOH	
RT (Exp. RT):	N/A (2.10) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



J5392-FS(3)	
RT (Exp. RT):	2.08 (2.10) min
Calculated Conc:	101.178285 ng/L
Area:	5.301e3
Modified:	(False)

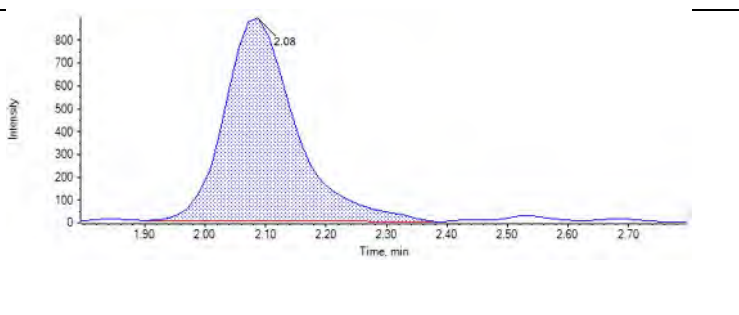


J5394-FS(4)	
RT (Exp. RT):	2.08 (2.10) min
Calculated Conc:	113.898692 ng/L
Area:	6.155e3
Modified:	(True)

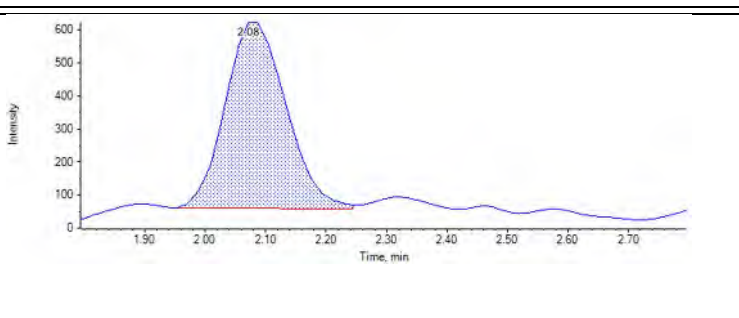




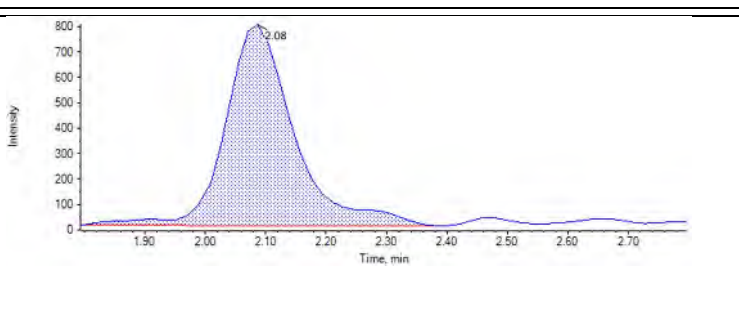
J5394-FS-D(5)  
 RT (Exp. RT): 2.08 (2.10) min  
 Calculated Conc: 87.732314 ng/L  
 Area: 7.281e3  
 Modified: (False)



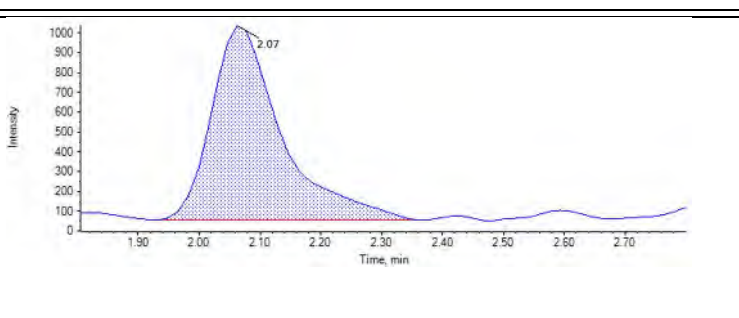
J5395-FS(3)  
 RT (Exp. RT): 2.08 (2.10) min  
 Calculated Conc: 83.392546 ng/L  
 Area: 3.937e3  
 Modified: (False)



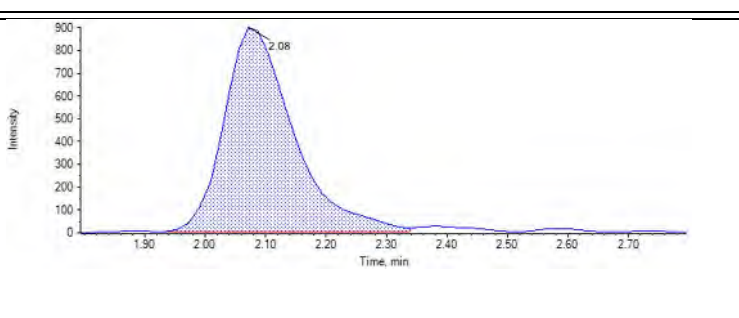
J5396-FS(3)  
 RT (Exp. RT): 2.08 (2.10) min  
 Calculated Conc: 106.957413 ng/L  
 Area: 6.264e3  
 Modified: (False)



J5397-FS(3)  
 RT (Exp. RT): 2.07 (2.10) min  
 Calculated Conc: 117.315497 ng/L  
 Area: 7.852e3  
 Modified: (False)



JU10 CCV  
 RT (Exp. RT): 2.08 (2.10) min  
 Calculated Conc: 101.267684 ng/L  
 Area: 7.136e3  
 Modified: (False)



**Analyte: 13C8-PFOS (507.0 / 99.0)**

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

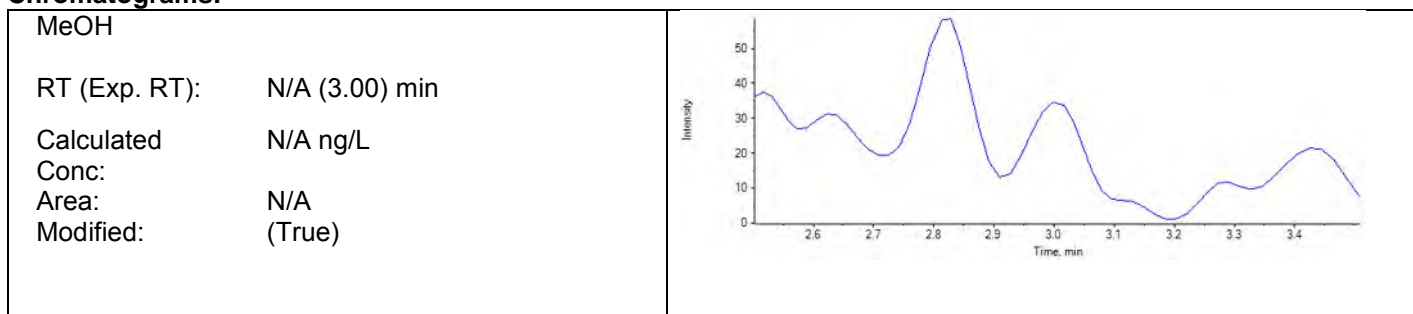
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	11100	2.83	10060	95.70000	111.923295	117
JU05	Standard	3/28/2018 7:57:43 PM	8265	2.83	8431	95.70000	99.473830	104
JU06	Standard	3/28/2018 8:08:31 PM	7900	2.84	9601	95.70000	83.488074	87
JU07	Standard	3/28/2018 8:19:19 PM	9573	2.83	10710	95.70000	90.713234	95
JU08	Standard	3/28/2018 8:30:06 PM	8211	2.83	8102	95.70000	102.826702	107
JU09	Standard	3/28/2018 8:40:53 PM	8161	2.83	10010	95.70000	82.728512	86
JU10	Standard	3/28/2018 8:51:40 PM	8630	2.83	7234	95.70000	121.032671	126
JU11	Standard	3/28/2018 9:02:26 PM	6646	2.83	7902	95.70000	85.339432	89
JU12	Standard	3/28/2018 9:13:13 PM	8583	2.82	10400	95.70000	83.774250	88
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	8334	2.82	9601	95.70000	88.074342	92
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	8239	2.82	9201	95.70000	90.855310	95
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	8675	2.82	10110	95.70000	87.032213	91
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	10890	2.82	9743	95.70000	113.384089	118
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	8218	2.82	8607	95.70000	96.884197	101
J5387-FS(3)	Quality Control	3/28/2018 11:11:47 PM	4370	2.80	4915	95.70000	90.223760	94
J5387MS-FS(3)	Quality Control	3/28/2018 11:22:33 PM	4179	2.80	4974	95.70000	85.262683	89
J5387MSD-FS(3)	Quality Control	3/28/2018 11:33:19 PM	4950	2.81	4805	95.70000	104.525083	109



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Quality Control	3/28/2018 11:44:05 PM	7901	2.82	9823	95.70000	81.614183	85
J5389-FS(3)	Quality Control	3/28/2018 11:54:52 PM	5953	2.81	5273	95.70000	114.555314	120
J5390-FS(3)	Quality Control	3/29/2018 12:05:39 AM	8884	2.82	7482	95.70000	120.480508	126
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	9970	2.81	10350	95.70000	97.697252	102
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Quality Control	3/29/2018 12:37:58 AM	7919	2.81	6840	95.70000	117.473438	123
J5394-FS(4)	Quality Control	3/29/2018 12:48:42 AM	7021	2.82	7055	95.70000	100.984443	106
<del>J5394-FS-D(5)</del>	<del>Quality Control</del>	<del>3/29/2018 12:59:28 AM</del>	<del>9554</del>	<del>2.82</del>	<del>10830</del>	<del>95.70000</del>	<del>89.479678</del>	<del>94</del>
J5395-FS(3)	Quality Control	3/29/2018 1:10:15 AM	5037	2.81	6163	95.70000	82.926908	87
J5396-FS(3)	Quality Control	3/29/2018 1:21:02 AM	8203	2.82	7646	95.70000	108.859547	114
J5397-FS(3)	Quality Control	3/29/2018 1:31:48 AM	8823	2.81	8738	95.70000	102.452182	107
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	8566	2.81	9198	95.70000	94.485671	99

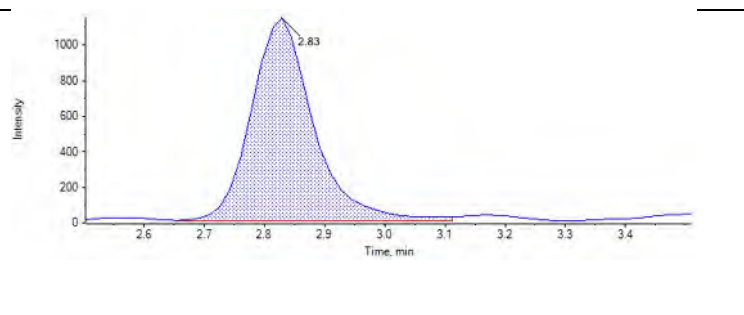
Dilution not needed. DMS 4/6/2018

**Chromatograms:**

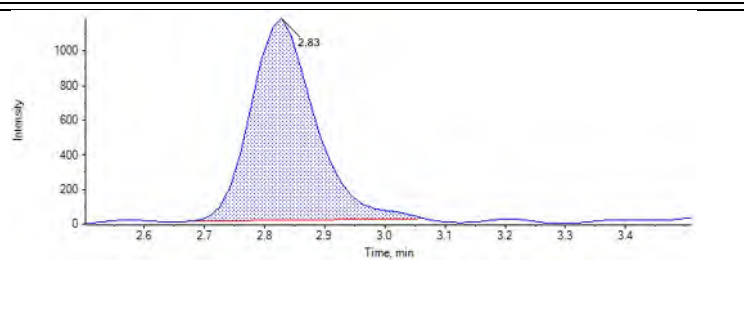


<p>JU04</p> <p>RT (Exp. RT): 2.83 (3.00) min</p> <p>Calculated Conc: 111.923295 ng/L</p> <p>Area: 1.110e4</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.83 (3.00) min</p> <p>Calculated Conc: 99.473830 ng/L</p> <p>Area: 8.265e3</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.84 (3.00) min</p> <p>Calculated Conc: 83.488074 ng/L</p> <p>Area: 7.900e3</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 2.83 (3.00) min</p> <p>Calculated Conc: 90.713234 ng/L</p> <p>Area: 9.573e3</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.83 (3.00) min</p> <p>Calculated Conc: 102.826702 ng/L</p> <p>Area: 8.211e3</p> <p>Modified: (False)</p>	

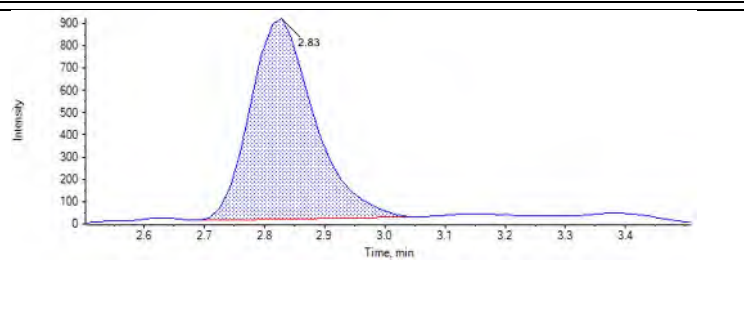
JU09	
RT (Exp. RT):	2.83 (3.00) min
Calculated Conc:	82.728512 ng/L
Area:	8.161e3
Modified:	(False)



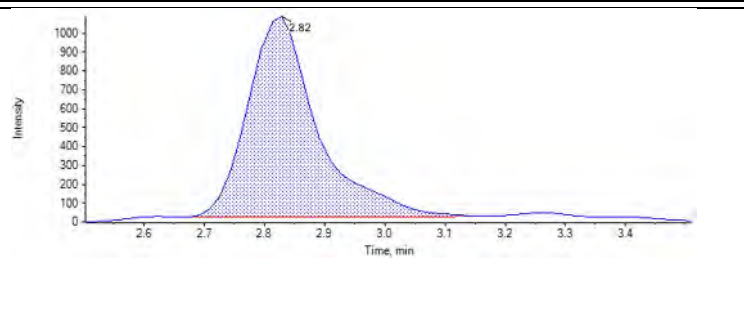
JU10	
RT (Exp. RT):	2.83 (3.00) min
Calculated Conc:	121.032671 ng/L
Area:	8.630e3
Modified:	(True)



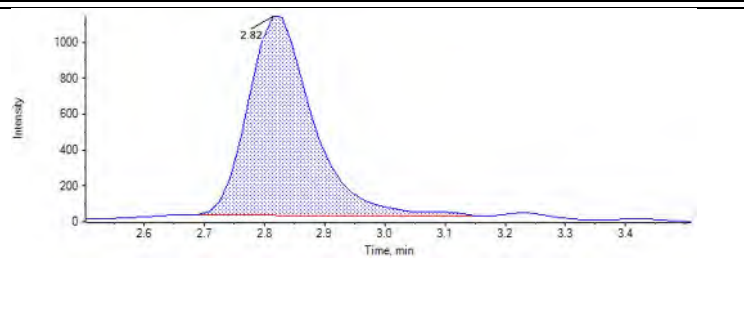
JU11	
RT (Exp. RT):	2.83 (3.00) min
Calculated Conc:	85.339432 ng/L
Area:	6.646e3
Modified:	(False)



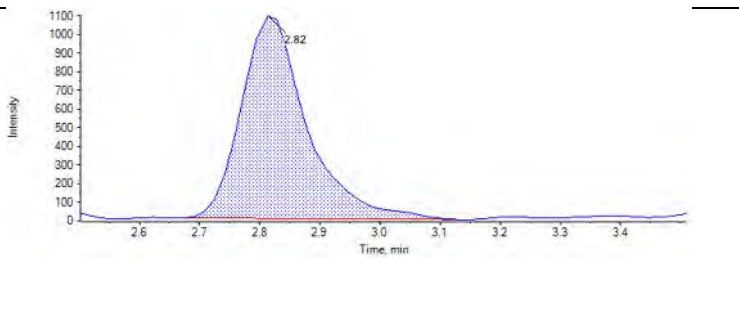
JU12	
RT (Exp. RT):	2.82 (3.00) min
Calculated Conc:	83.774250 ng/L
Area:	8.583e3
Modified:	(False)



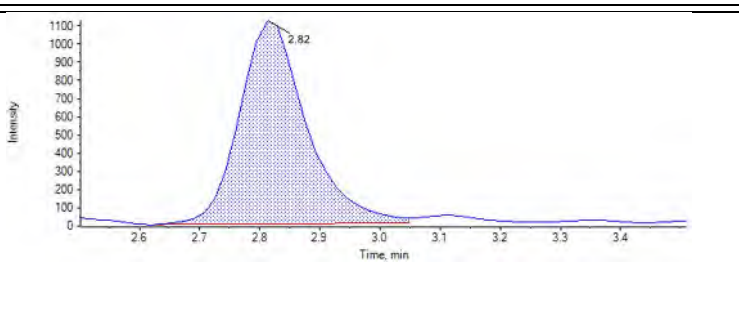
JP83 IB	
RT (Exp. RT):	2.82 (3.00) min
Calculated Conc:	88.074342 ng/L
Area:	8.334e3
Modified:	(False)



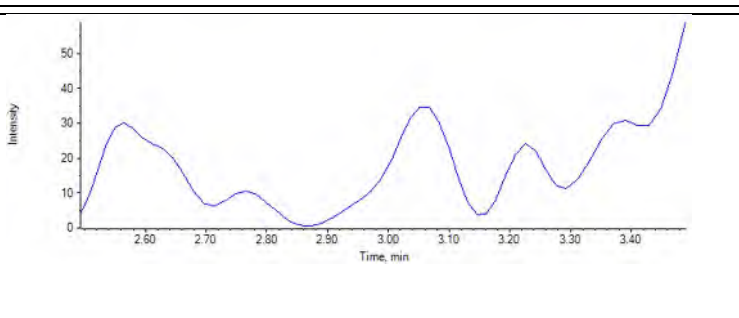
JU13 ICC	
RT (Exp. RT):	2.82 (3.00) min
Calculated Conc:	90.855310 ng/L
Area:	8.239e3
Modified:	(False)



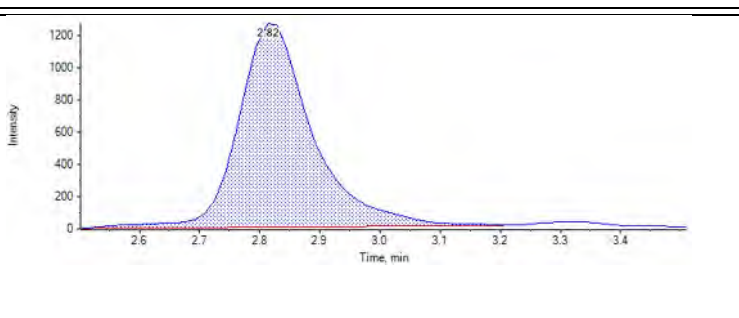
JU38 Branch	
RT (Exp. RT):	2.82 (3.00) min
Calculated Conc:	87.032213 ng/L
Area:	8.675e3
Modified:	(False)



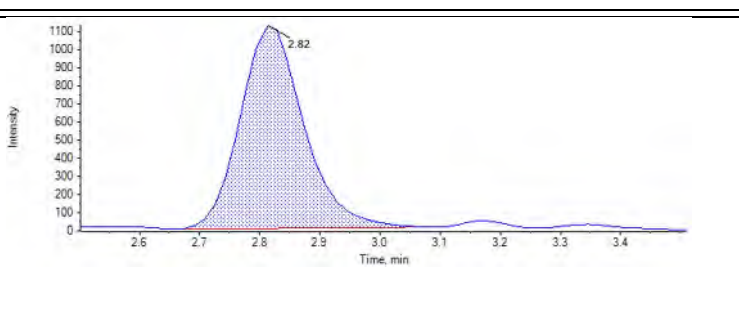
MeOH	
RT (Exp. RT):	N/A (3.00) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



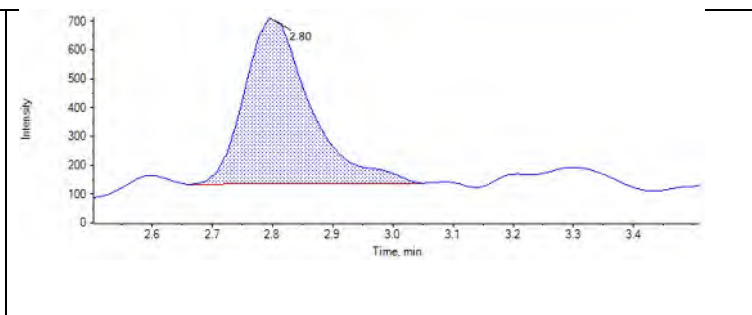
CQ320PB-FS(3)	
RT (Exp. RT):	2.82 (3.00) min
Calculated Conc:	113.384089 ng/L
Area:	1.089e4
Modified:	(False)



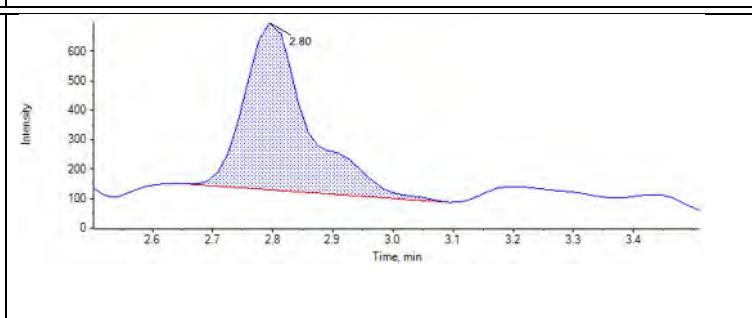
CQ321LCS-FS(3)	
RT (Exp. RT):	2.82 (3.00) min
Calculated Conc:	96.884197 ng/L
Area:	8.218e3
Modified:	(False)



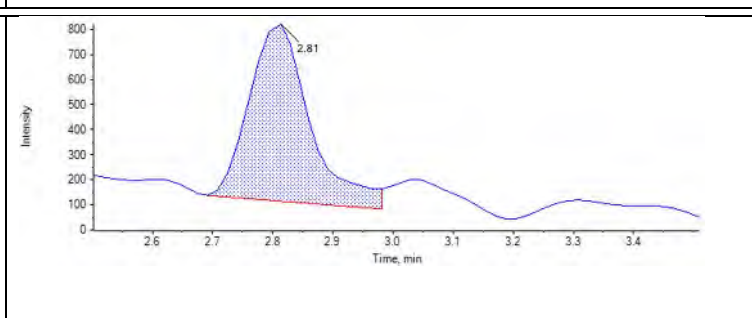
J5387-FS(3)	
RT (Exp. RT):	2.80 (3.00) min
Calculated Conc:	90.223760 ng/L
Area:	4.370e3
Modified:	(False)



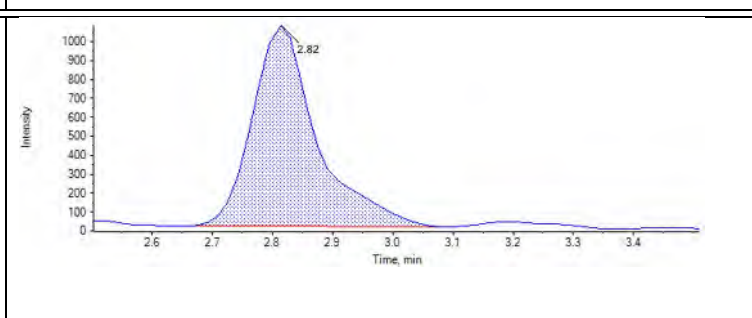
J5387MS-FS(3)	
RT (Exp. RT):	2.80 (3.00) min
Calculated Conc:	85.262683 ng/L
Area:	4.179e3
Modified:	(False)



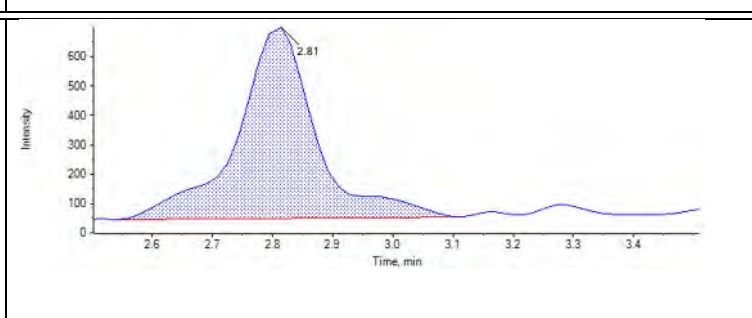
J5387MSD-FS(3)	
RT (Exp. RT):	2.81 (3.00) min
Calculated Conc:	104.525083 ng/L
Area:	4.950e3
Modified:	(False)



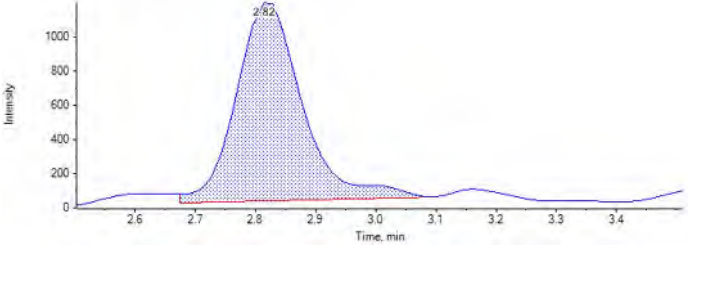
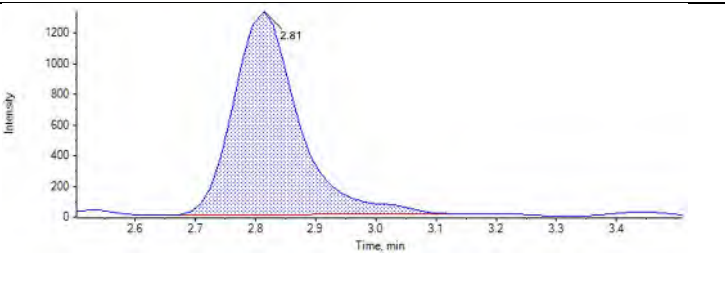
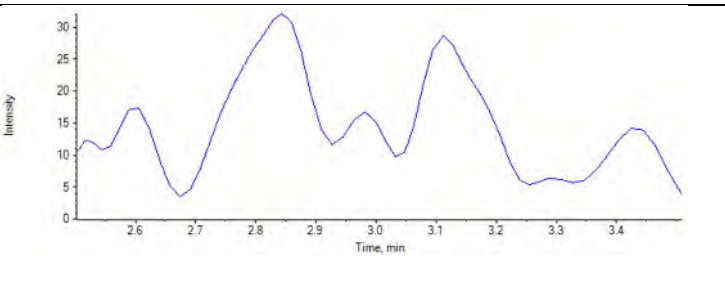
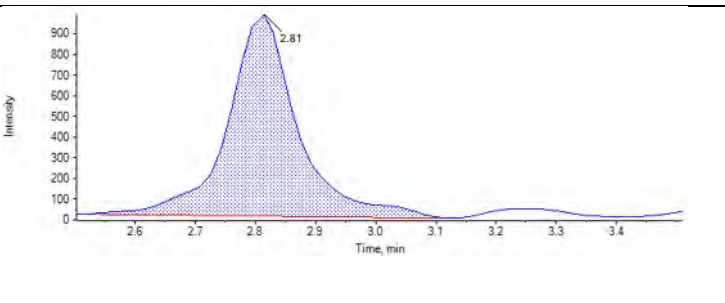
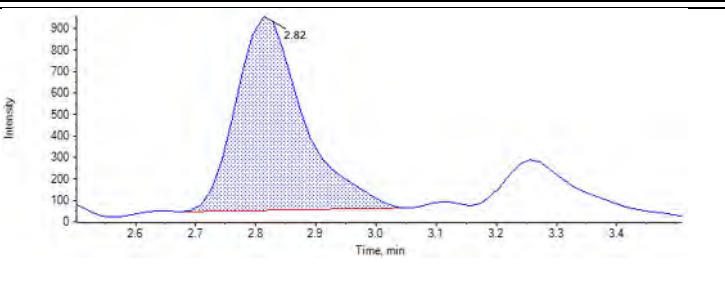
J5388-FS(3)	
RT (Exp. RT):	2.82 (3.00) min
Calculated Conc:	81.614183 ng/L
Area:	7.901e3
Modified:	(False)



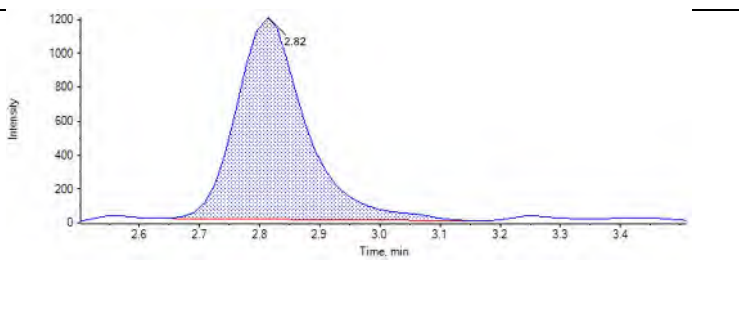
J5389-FS(3)	
RT (Exp. RT):	2.81 (3.00) min
Calculated Conc:	114.555314 ng/L
Area:	5.953e3
Modified:	(False)



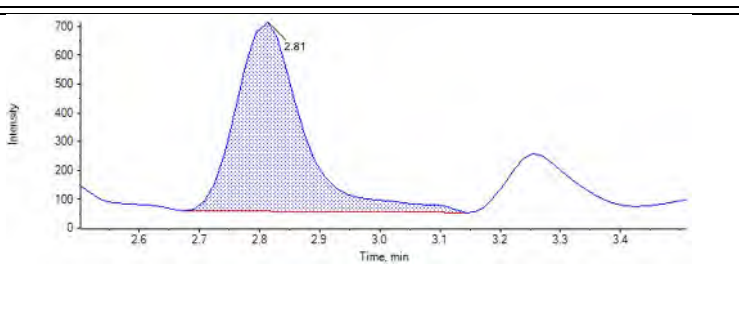


<p>J5390-FS(3)</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 120.480508 ng/L</p> <p>Area: 8.884e3</p> <p>Modified: (False)</p>	
<p>JU09 CCV</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 97.697252 ng/L</p> <p>Area: 9.970e3</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5392-FS(3)</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 117.473438 ng/L</p> <p>Area: 7.919e3</p> <p>Modified: (False)</p>	
<p>J5394-FS(4)</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 100.984443 ng/L</p> <p>Area: 7.021e3</p> <p>Modified: (False)</p>	

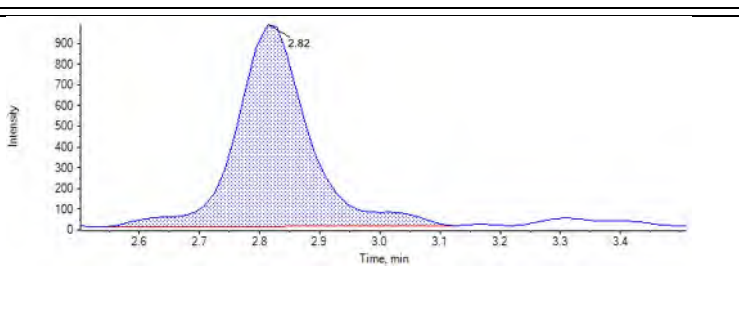
J5394-FS-D(5)  
 RT (Exp. RT): 2.82 (3.00) min  
 Calculated Conc: 89.479678 ng/L  
 Area: 9.554e3  
 Modified: (False)



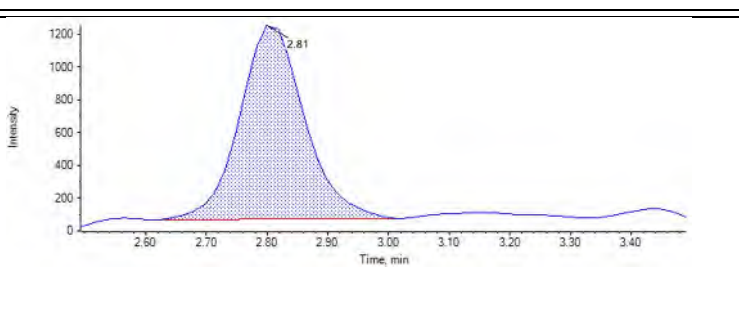
J5395-FS(3)  
 RT (Exp. RT): 2.81 (3.00) min  
 Calculated Conc: 82.926908 ng/L  
 Area: 5.037e3  
 Modified: (False)



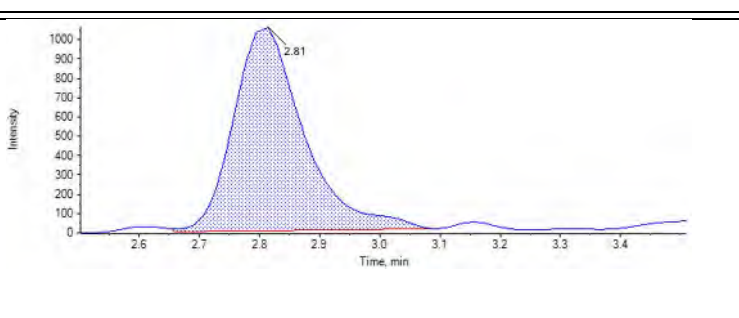
J5396-FS(3)  
 RT (Exp. RT): 2.82 (3.00) min  
 Calculated Conc: 108.859547 ng/L  
 Area: 8.203e3  
 Modified: (False)



J5397-FS(3)  
 RT (Exp. RT): 2.81 (3.00) min  
 Calculated Conc: 102.452182 ng/L  
 Area: 8.823e3  
 Modified: (False)



JU10 CCV  
 RT (Exp. RT): 2.81 (3.00) min  
 Calculated Conc: 94.485671 ng/L  
 Area: 8.566e3  
 Modified: (False)





**Analyte:** 13C4-PFBA (217.0 / 172.0)

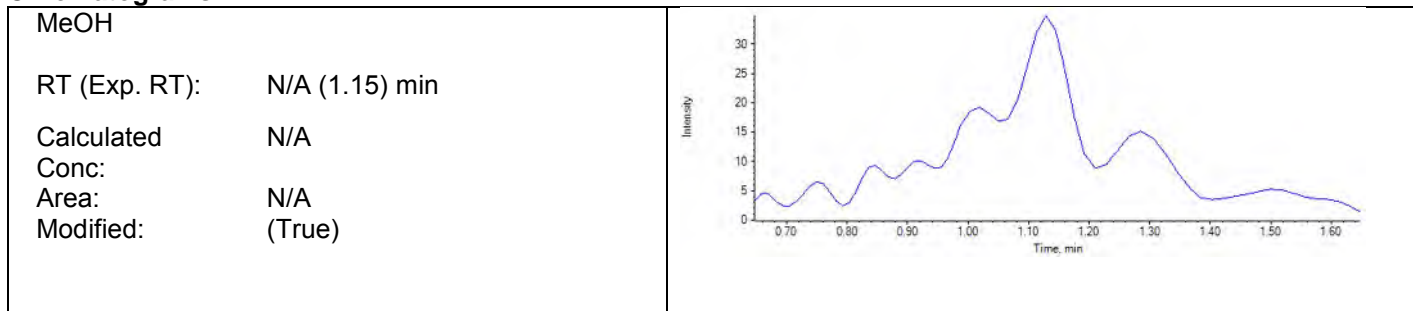
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

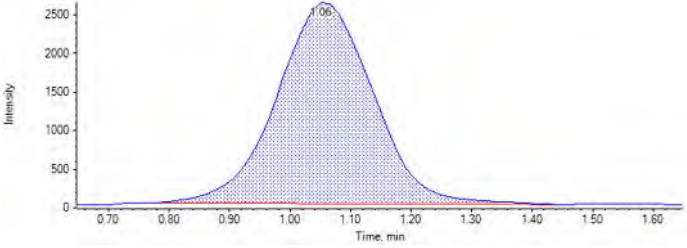
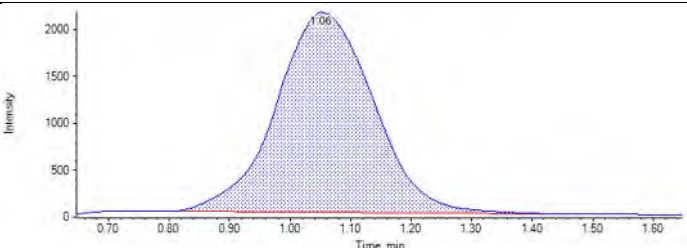
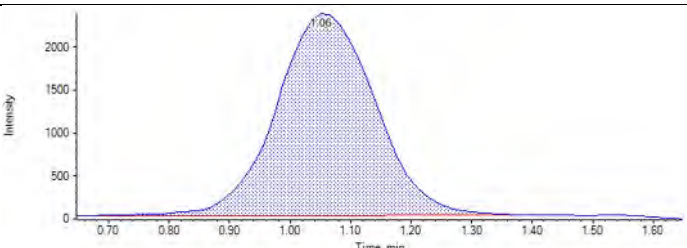
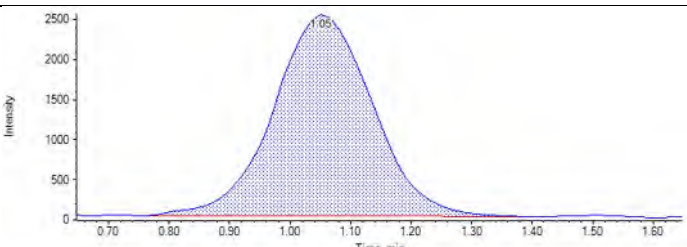
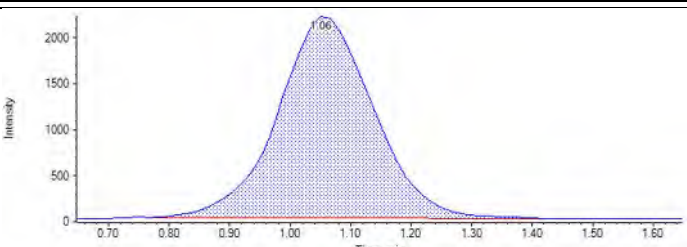
**Samples:**

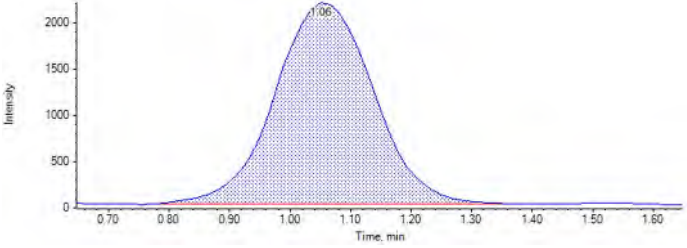
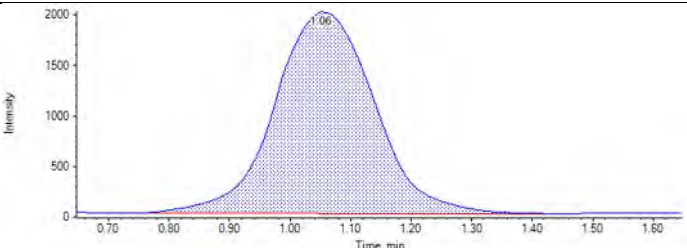
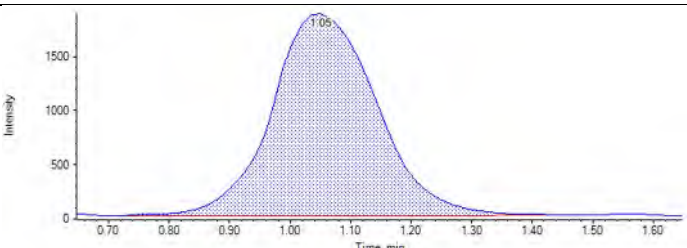
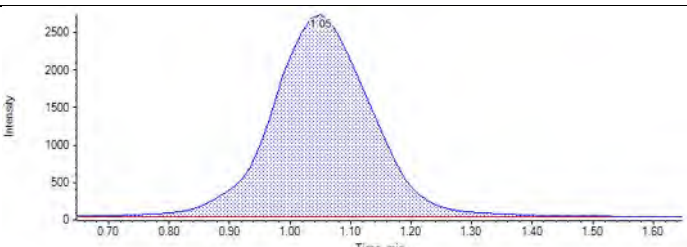
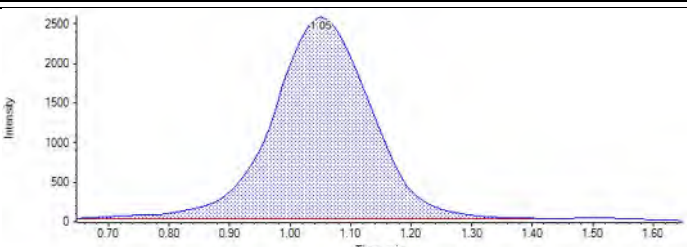
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. ()	Calculated Conc. ()	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	28800	1.06	22390	100.00000	107.311582	107
JU05	Standard	3/28/2018 7:57:43 PM	23950	1.06	19360	100.00000	103.211891	103
JU06	Standard	3/28/2018 8:08:31 PM	26920	1.06	20740	100.00000	108.284798	108
JU07	Standard	3/28/2018 8:19:19 PM	28720	1.05	22300	100.00000	107.470245	107
JU08	Standard	3/28/2018 8:30:06 PM	24190	1.06	19470	100.00000	103.621928	104
JU09	Standard	3/28/2018 8:40:53 PM	24740	1.06	24980	100.00000	82.643145	83
JU10	Standard	3/28/2018 8:51:40 PM	22930	1.06	21600	100.00000	88.553512	89
JU11	Standard	3/28/2018 9:02:26 PM	22670	1.05	22240	100.00000	85.051177	85
JU12	Standard	3/28/2018 9:13:13 PM	30670	1.05	22470	100.00000	113.851722	114
JP83 IB	Quality Control	3/28/2018 9:23:58 PM	28780	1.05	23000	100.00000	104.422894	104
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	24790	1.05	21670	100.00000	95.436210	95
JU38 Branch	Quality Control	3/28/2018 9:45:33 PM	28370	1.05	21900	100.00000	108.065418	108
MeOH	Unknown	3/28/2018 9:56:20 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Quality Control	3/28/2018 10:50:13 PM	28010	1.05	20980	100.00000	111.373999	111
CQ321LCS-FS(3)	Quality Control	3/28/2018 11:01:00 PM	27410	1.05	21260	100.00000	107.571753	108
<del>J5387-FS(3)</del>	<del>Quality Control</del>	<del>3/28/2018 11:11:47 PM</del>	<del>16090</del>	<del>1.18</del>	<del>1068000</del>	<del>100.00000</del>	<del>1.256309</del>	<del>1</del>
<del>J5387MS-FS(3)</del>	<del>Quality Control</del>	<del>3/28/2018 11:22:33 PM</del>	<del>12710</del>	<del>1.16</del>	<del>965900</del>	<del>100.00000</del>	<del>1.097818</del>	<del>1</del>
<del>J5387MSD-FS(3)</del>	<del>Quality Control</del>	<del>3/28/2018 11:33:19 PM</del>	<del>15080</del>	<del>1.17</del>	<del>1037000</del>	<del>100.00000</del>	<del>1.213362</del>	<del>1</del>

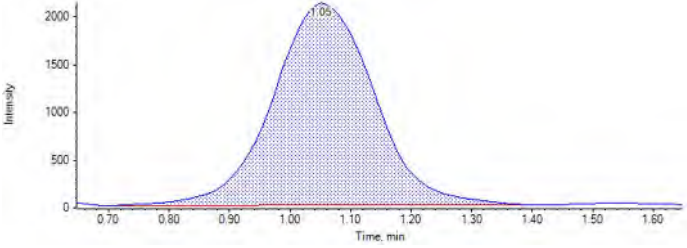
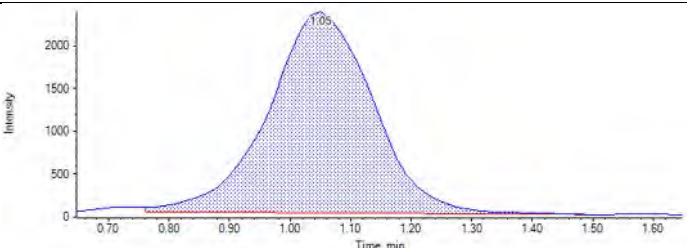
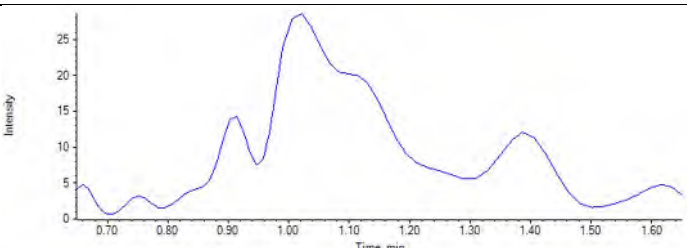
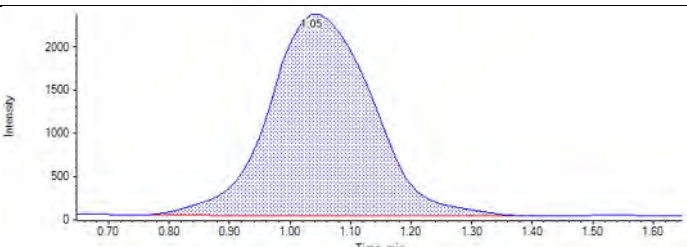
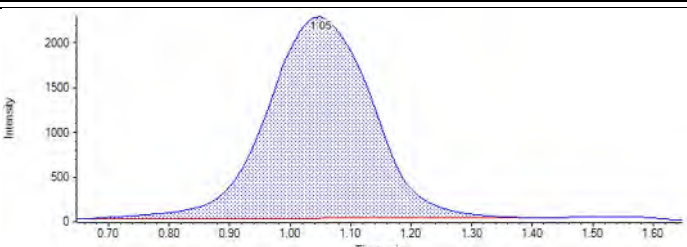
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. ()	Calculated Conc. ()	Acc (%)
<del>J5388-FS(3)</del>	Quality Control	<del>3/28/2018 11:44:05 PM</del>	<del>17198</del>	1.05	41620	100.00000	34.474353	34
<del>J5389-FS(3)</del>	Quality Control	<del>3/28/2018 11:54:52 PM</del>	<del>9268</del>	1.05	33570	100.00000	<del>23.033757</del>	23
<del>J5390-FS(3)</del>	Quality Control	<del>3/29/2018 12:05:39 AM</del>	<del>11323</del>	1.05	67750	100.00000	13.942904	14
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	31415	1.05	25530	100.00000	102.653342	103
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
<del>J5392-FS(3)</del>	Quality Control	<del>3/29/2018 12:37:58 AM</del>	<del>15712</del>	1.05	23170	100.00000	<del>56.574483</del>	57
<del>J5394-FS(4)</del>	Quality Control	<del>3/29/2018 12:48:42 AM</del>	<del>13157</del>	1.05	146600	100.00000	<del>7.486271</del>	7
J5394-FS-D(5)	Quality Control	3/29/2018 12:59:28 AM	30036	1.05	18180	100.00000	137.854432	138
<del>J5395-FS(3)</del>	Quality Control	<del>3/29/2018 1:10:15 AM</del>	<del>7636</del>	1.08	201800	100.00000	<del>3.156513</del>	3
<del>J5396-FS(3)</del>	Quality Control	<del>3/29/2018 1:21:02 AM</del>	<del>13765</del>	1.05	31620	100.00000	36.315188	36
<del>J5397-FS(3)</del>	Quality Control	<del>3/29/2018 1:31:48 AM</del>	10440	1.03	54880	100.00000	15.870897	16
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	28922	1.04	19780	100.00000	122.004655	122

**Chromatograms:**



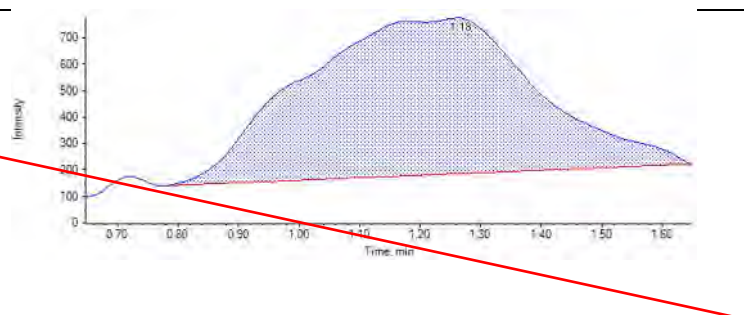
<p>JU04</p> <p>RT (Exp. RT): 1.06 (1.15) min</p> <p>Calculated Conc: 107.311582</p> <p>Area: 2.880e4</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.06 (1.15) min</p> <p>Calculated Conc: 103.211891</p> <p>Area: 2.395e4</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.06 (1.15) min</p> <p>Calculated Conc: 108.284798</p> <p>Area: 2.692e4</p> <p>Modified: (False)</p>	
<p>JU07</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 107.470245</p> <p>Area: 2.872e4</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.06 (1.15) min</p> <p>Calculated Conc: 103.621928</p> <p>Area: 2.419e4</p> <p>Modified: (False)</p>	

<p>JU09</p> <p>RT (Exp. RT): 1.06 (1.15) min</p> <p>Calculated Conc: 82.643145</p> <p>Area: 2.473e4</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.06 (1.15) min</p> <p>Calculated Conc: 88.553512</p> <p>Area: 2.293e4</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 85.051177</p> <p>Area: 2.267e4</p> <p>Modified: (False)</p>	
<p>JU12</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 113.851722</p> <p>Area: 3.067e4</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 104.422894</p> <p>Area: 2.878e4</p> <p>Modified: (False)</p>	

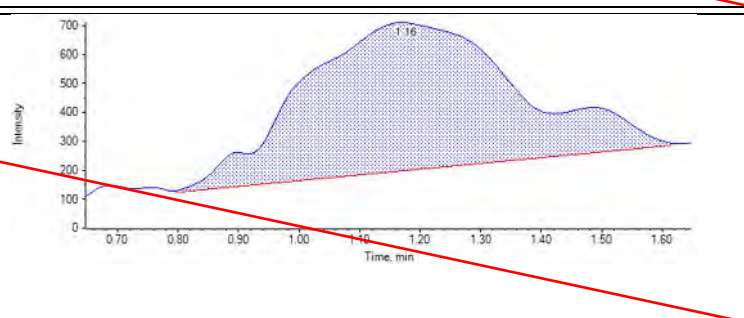
<p>JU13 ICC</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 95.436210</p> <p>Area: 2.479e4</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 108.065418</p> <p>Area: 2.837e4</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.15) min</p> <p>Calculated Conc: N/A</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ320PB-FS(3)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 111.373999</p> <p>Area: 2.801e4</p> <p>Modified: (False)</p>	
<p>CQ321LCS-FS(3)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 107.571753</p> <p>Area: 2.741e4</p> <p>Modified: (False)</p>	



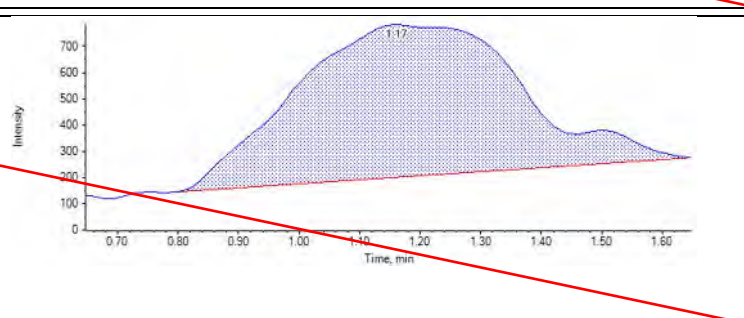
~~J5387-FS(3)~~  
RT (Exp. RT): 1.18 (1.15) min  
Calculated Conc: 1.256309  
Area: 1.609e4  
Modified: (False)



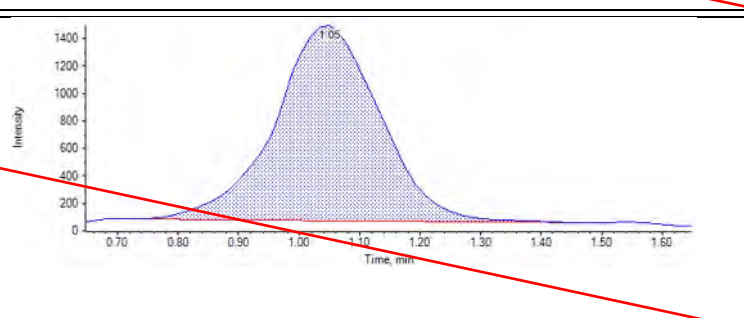
~~J5387MS-FS(3)~~  
RT (Exp. RT): 1.16 (1.15) min  
Calculated Conc: 1.097818  
Area: 1.271e4  
Modified: (True)



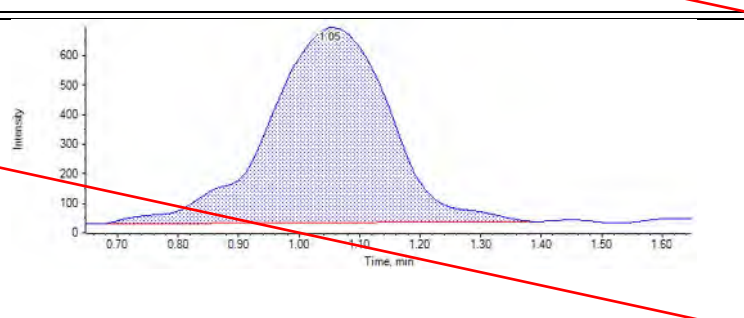
~~J5387MSD-FS(3)~~  
RT (Exp. RT): 1.17 (1.15) min  
Calculated Conc: 1.213362  
Area: 1.508e4  
Modified: (False)



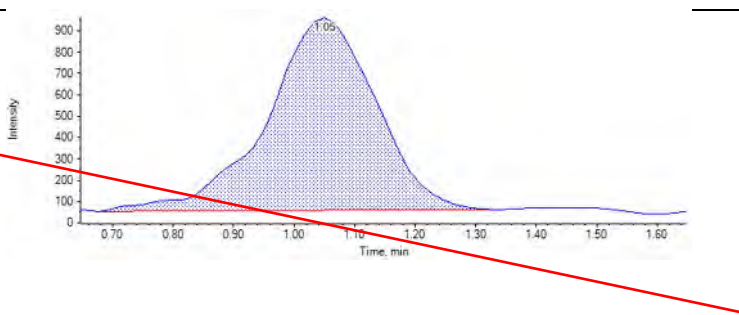
~~J5388-FS(3)~~  
RT (Exp. RT): 1.05 (1.15) min  
Calculated Conc: 34.474353  
Area: 1.720e4  
Modified: (False)



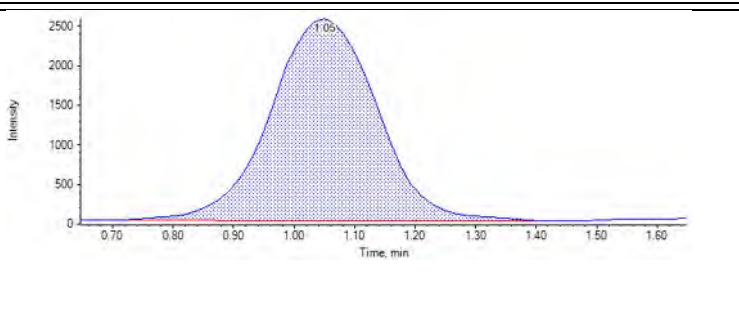
~~J5389-FS(3)~~  
RT (Exp. RT): 1.05 (1.15) min  
Calculated Conc: 23.033757  
Area: 9.268e3  
Modified: (False)



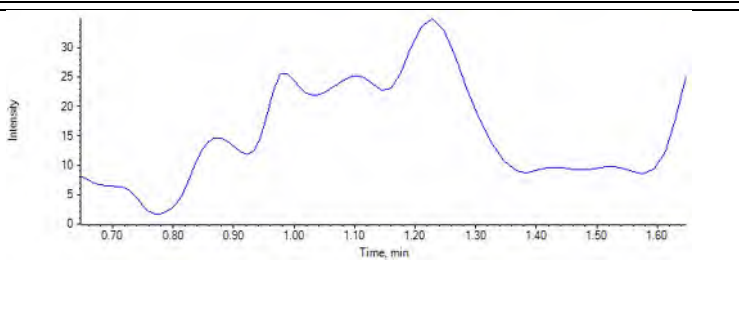
<del>J5390-FS(3)</del>	
RT (Exp. RT):	<del>1.05 (1.15) min</del>
Calculated Conc:	<del>13.942904</del>
Area:	<del>1.132e4</del>
Modified:	<del>(False)</del>



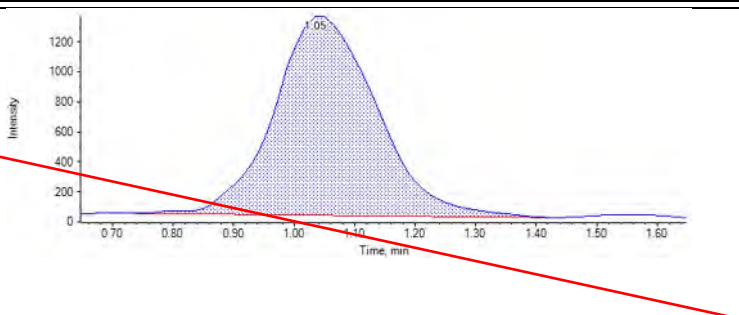
JU09 CCV	
RT (Exp. RT):	1.05 (1.15) min
Calculated Conc:	102.653342
Area:	3.141e4
Modified:	(False)



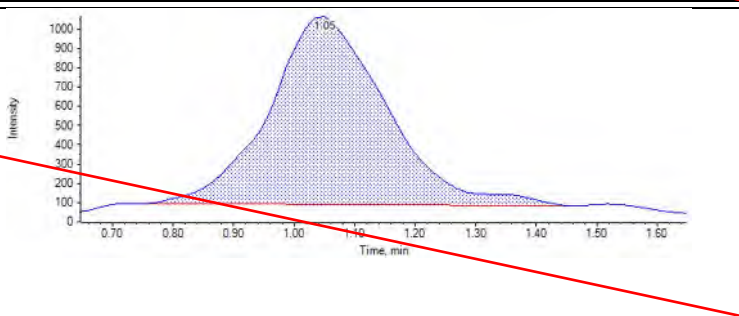
MeOH	
RT (Exp. RT):	N/A (1.15) min
Calculated Conc:	N/A
Area:	N/A
Modified:	(True)



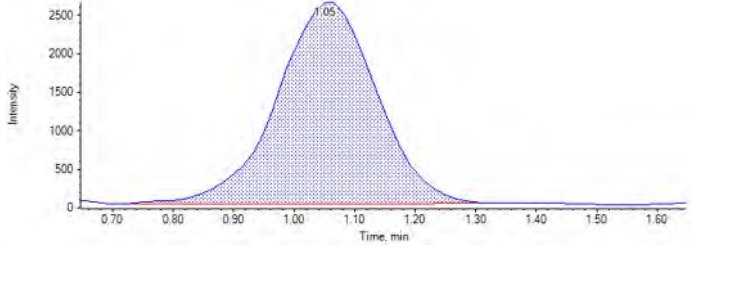
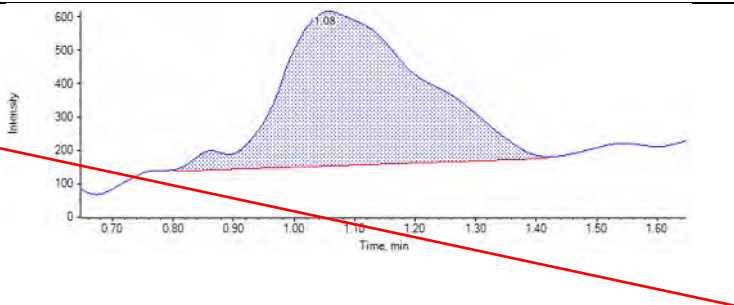
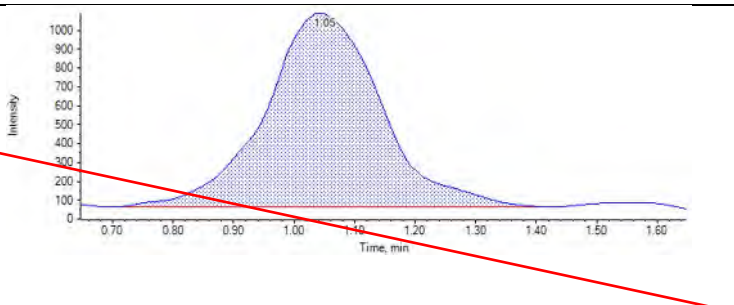
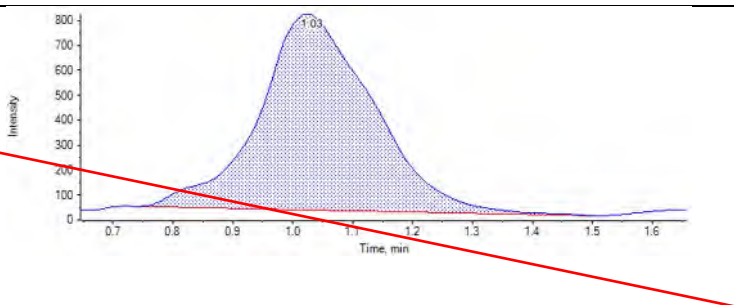
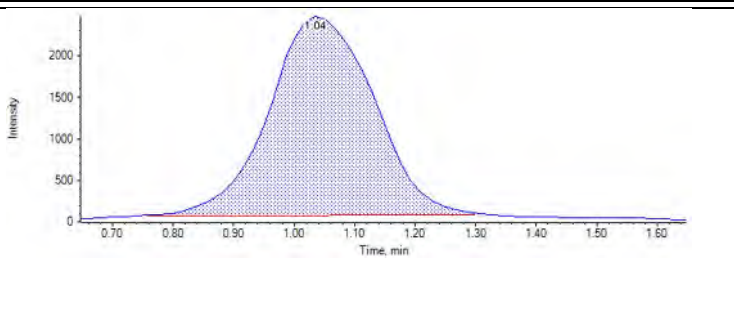
<del>J5392-FS(3)</del>	
RT (Exp. RT):	<del>1.05 (1.15) min</del>
Calculated Conc:	<del>56.574483</del>
Area:	<del>1.571e4</del>
Modified:	<del>(False)</del>



<del>J5394-FS(4)</del>	
RT (Exp. RT):	<del>1.05 (1.15) min</del>
Calculated Conc:	<del>7.486271</del>
Area:	<del>1.316e4</del>
Modified:	<del>(False)</del>





<p>J5394-FS-D(5)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 137.854432</p> <p>Area: 3.004e4</p> <p>Modified: (False)</p>	
<p><del>J5395-FS(3)</del></p> <p><del>RT (Exp. RT): 1.08 (1.15) min</del></p> <p><del>Calculated Conc: 3.156513</del></p> <p><del>Area: 7.636e3</del></p> <p><del>Modified: (True)</del></p>	
<p><del>J5396-FS(3)</del></p> <p><del>RT (Exp. RT): 1.05 (1.15) min</del></p> <p><del>Calculated Conc: 36.315188</del></p> <p><del>Area: 1.376e4</del></p> <p><del>Modified: (False)</del></p>	
<p><del>J5397-FS(3)</del></p> <p><del>RT (Exp. RT): 1.03 (1.15) min</del></p> <p><del>Calculated Conc: 29.372043</del></p> <p><del>Area: 1.044e4</del></p> <p><del>Modified: (False)</del></p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 1.04 (1.15) min</p> <p>Calculated Conc: 122.004655</p> <p>Area: 2.892e4</p> <p>Modified: (True)</p>	

**Analyte:** 13C4-PFBA (217.0 / 172.0)

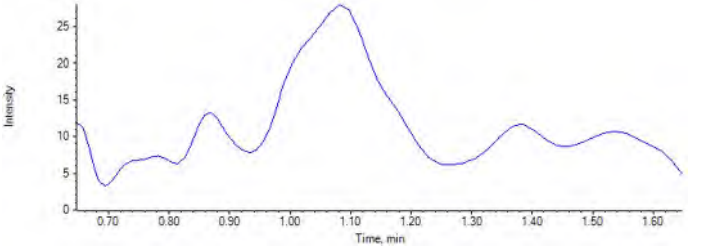
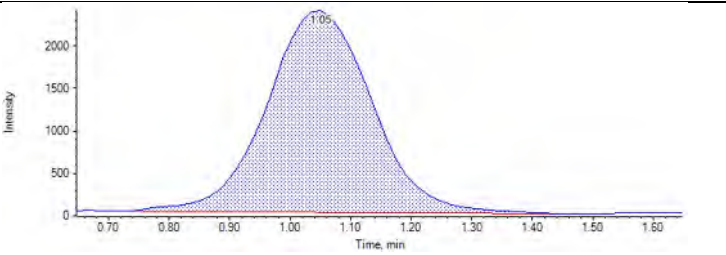
<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0207_SIS_D
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

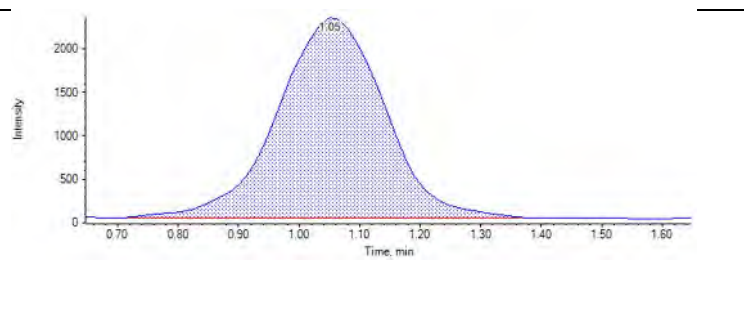
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	28774	1.05	27720	100.00000	96.548166	97
JU05	Standard	3/29/2018 7:57:30 PM	28470	1.05	30010	100.00000	88.228823	88
JU06	Standard	3/29/2018 8:08:16 PM	28920	1.05	22980	100.00000	117.043450	117
JU07	Standard	3/29/2018 8:19:03 PM	23551	1.05	24680	100.00000	88.750814	89
JU08	Standard	3/29/2018 8:29:49 PM	24387	1.06	22300	100.00000	101.699045	102
JU09	Standard	3/29/2018 8:40:36 PM	29996	1.05	26380	100.00000	105.777079	106
JU10	Standard	3/29/2018 8:51:22 PM	25120	1.05	24160	100.00000	96.712820	97
JU11	Standard	3/29/2018 9:02:09 PM	21285	1.05	19020	100.00000	104.084997	104
JU12	Standard	3/29/2018 9:12:55 PM	30344	1.05	27900	100.00000	101.154806	101
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	30915	1.05	29780	100.00000	96.571328	97
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	27569	1.05	24700	100.00000	103.817612	104
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	28098	1.06	24470	100.00000	106.795167	107
MeOH	Unknown	3/29/2018 11:11:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
J5387-FS-D(5)	Quality Control	3/29/2018 11:22:13 PM	21788	1.05	17270	100.00000	117.341283	117
J5387MS-FS-D(5)	Quality Control	3/29/2018 11:33:00 PM	23802	1.05	21710	100.00000	101.990242	102
J5387MSD-FS-D(5)	Quality Control	3/29/2018 11:43:48 PM	23087	1.05	20960	100.00000	102.436018	102
J5388-FS-D(5)	Quality Control	3/29/2018 11:54:35 PM	26382	1.06	18080	100.00000	135.700805	136
J5389-FS-D(5)	Quality Control	3/30/2018 12:05:21 AM	27238	1.05	17020	100.00000	148.817085	149

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5390-FS-D(5)	Quality Control	3/30/2018 12:16:08 AM	29201	1.05	23680	100.00000	114.681593	115
JU10 CCV	Quality Control	3/30/2018 12:26:55 AM	23324	1.05	22580	100.00000	96.074931	96
MeOH	Unknown	3/30/2018 12:37:41 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS-D(5)	Quality Control	3/30/2018 12:48:28 AM	24973	1.05	19550	100.00000	118.790548	119
J5395-FS-D(5)	Quality Control	3/30/2018 12:59:15 AM	27364	1.05	22490	100.00000	113.161031	113
J5396-FS-D(5)	Quality Control	3/30/2018 1:10:00 AM	27085	1.05	20280	100.00000	124.214001	124
J5397-FS-D(5)	Quality Control	3/30/2018 1:20:46 AM	26327	1.05	18880	100.00000	129.706219	130
JU08 CCV	Quality Control	3/30/2018 1:31:31 AM	23364	1.04	20630	100.00000	105.357306	105

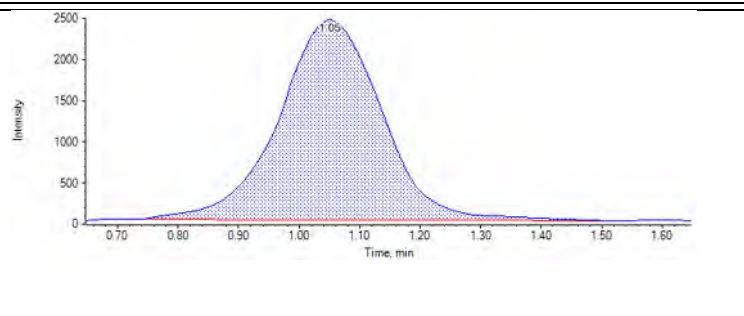
**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>The chromatogram for MeOH shows a noisy baseline with a prominent peak at 1.05 minutes. The y-axis represents intensity from 0 to 25, and the x-axis represents time from 0.70 to 1.60 minutes.</p>
<p>JU04</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 96.548166 ng/L</p> <p>Area: 28773.605002</p> <p>Modified: (False)</p>	 <p>The chromatogram for JU04 shows a very sharp and narrow peak at 1.05 minutes. The y-axis represents intensity from 0 to 2000, and the x-axis represents time from 0.70 to 1.60 minutes.</p>

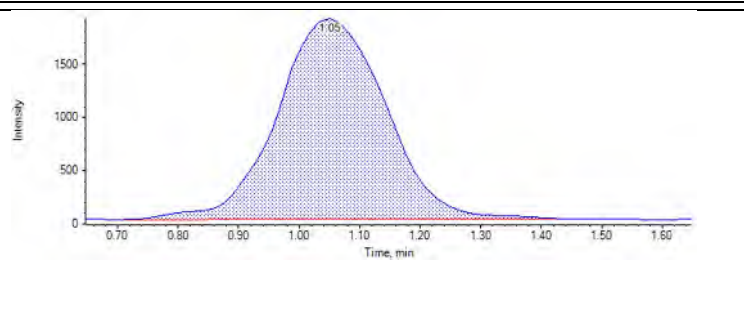
JU05  
RT (Exp. RT): 1.05 (1.15) min  
Calculated Conc: 88.228823 ng/L  
Area: 28469.813339  
Modified: (False)



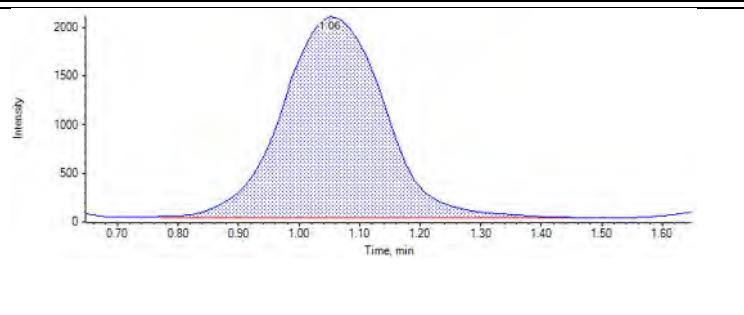
JU06  
RT (Exp. RT): 1.05 (1.15) min  
Calculated Conc: 117.043450 ng/L  
Area: 28920.350648  
Modified: (False)



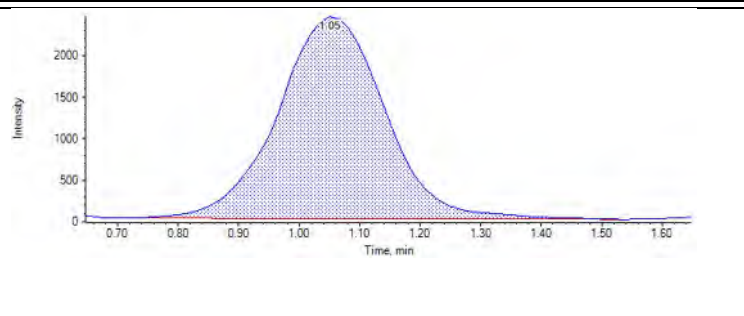
JU07  
RT (Exp. RT): 1.05 (1.15) min  
Calculated Conc: 88.750814 ng/L  
Area: 23551.156631  
Modified: (False)



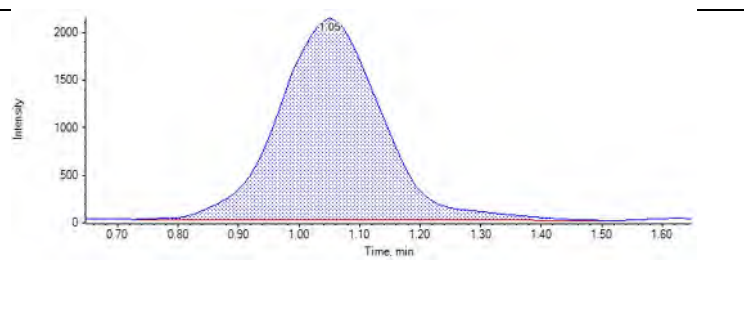
JU08  
RT (Exp. RT): 1.06 (1.15) min  
Calculated Conc: 101.699045 ng/L  
Area: 24387.189654  
Modified: (False)



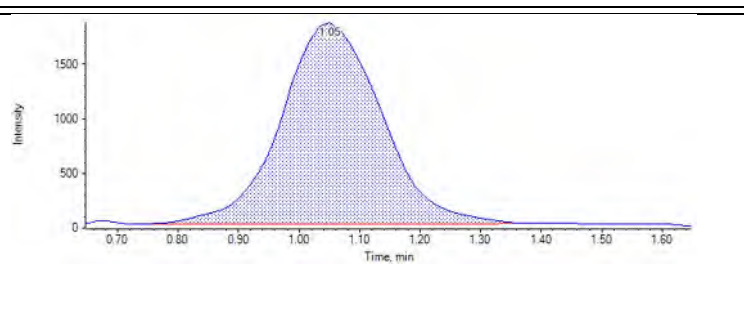
JU09  
RT (Exp. RT): 1.05 (1.15) min  
Calculated Conc: 105.777079 ng/L  
Area: 29996.017315  
Modified: (False)



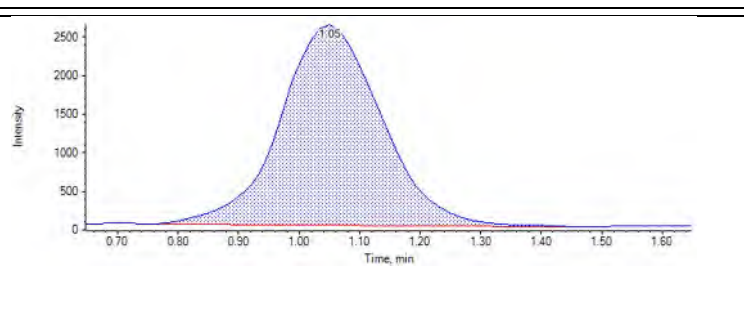
JU10  
RT (Exp. RT): 1.05 (1.15) min  
Calculated Conc: 96.712820 ng/L  
Area: 25120.486133  
Modified: (False)



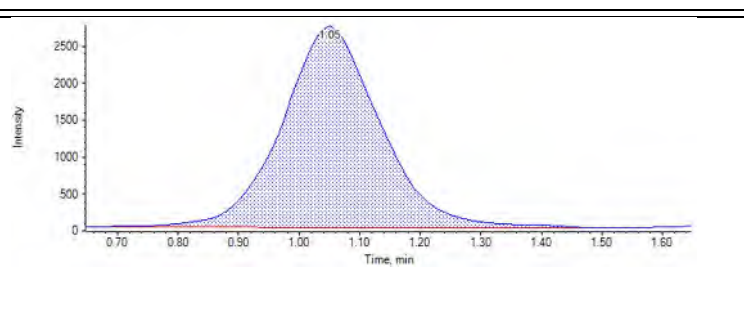
JU11  
RT (Exp. RT): 1.05 (1.15) min  
Calculated Conc: 104.084997 ng/L  
Area: 21284.612189  
Modified: (False)



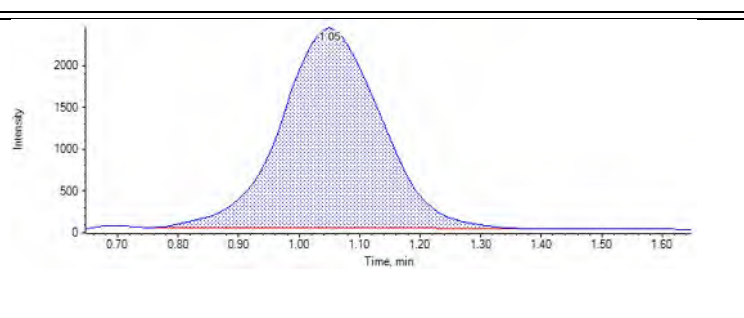
JU12  
RT (Exp. RT): 1.05 (1.15) min  
Calculated Conc: 101.154806 ng/L  
Area: 30344.167155  
Modified: (False)



JP83 IB  
RT (Exp. RT): 1.05 (1.15) min  
Calculated Conc: 96.571328 ng/L  
Area: 30915.373278  
Modified: (False)

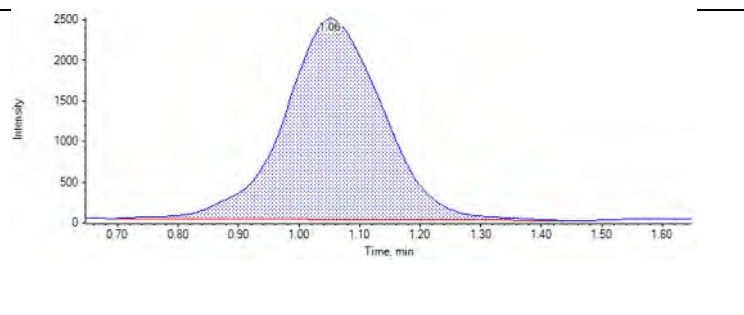


JU13 ICC  
RT (Exp. RT): 1.05 (1.15) min  
Calculated Conc: 103.817612 ng/L  
Area: 27568.696240  
Modified: (False)

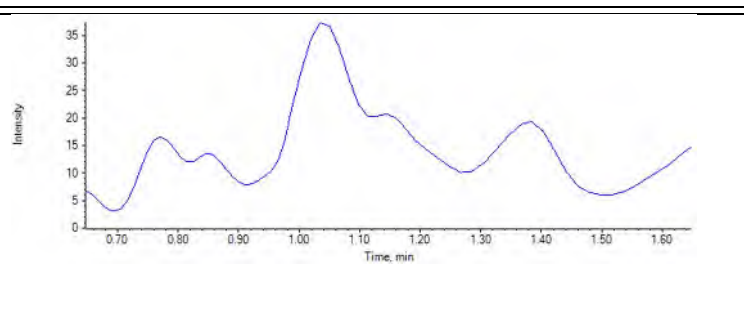




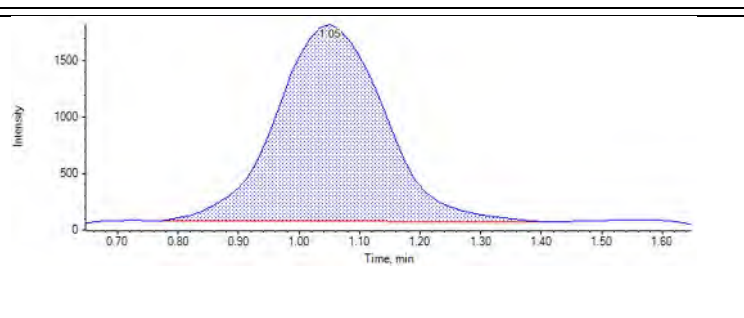
JU38 Branch	
RT (Exp. RT):	1.06 (1.15) min
Calculated Conc:	106.795167 ng/L
Area:	28098.392017
Modified:	(False)



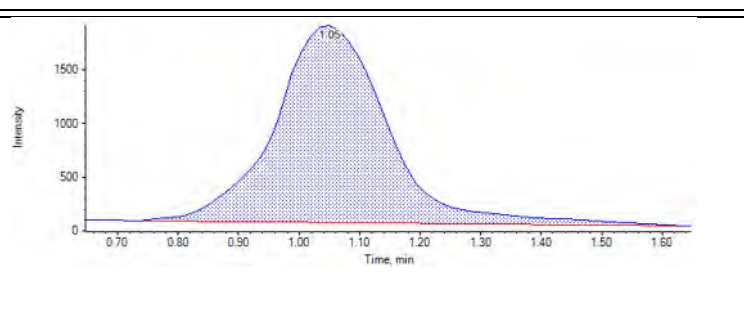
MeOH	
RT (Exp. RT):	N/A (1.15) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



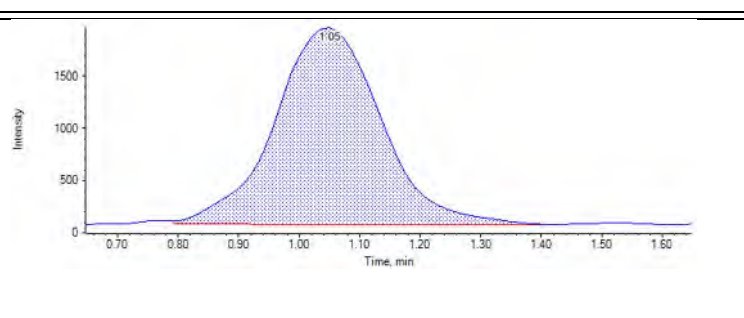
J5387-FS-D(5)	
RT (Exp. RT):	1.05 (1.15) min
Calculated Conc:	117.341283 ng/L
Area:	21787.515127
Modified:	(False)



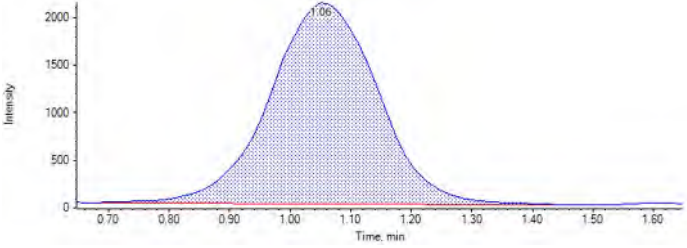
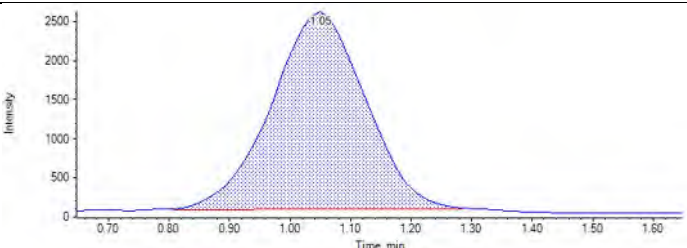
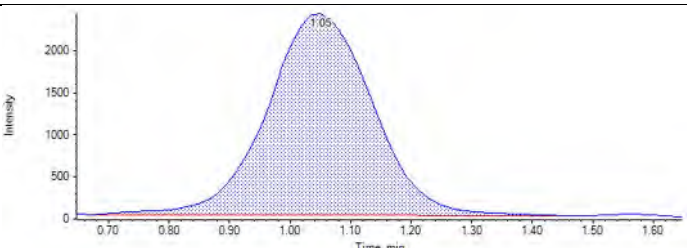
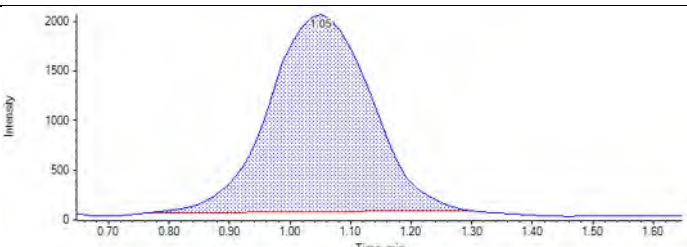
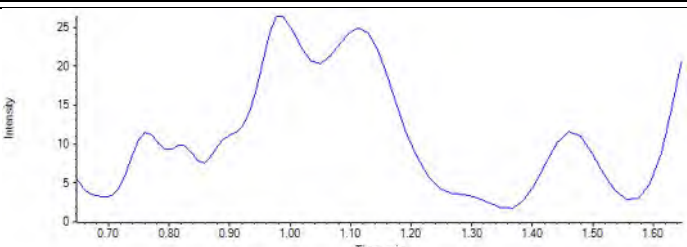
J5387MS-FS-D(5)	
RT (Exp. RT):	1.05 (1.15) min
Calculated Conc:	101.990242 ng/L
Area:	23802.029770
Modified:	(False)

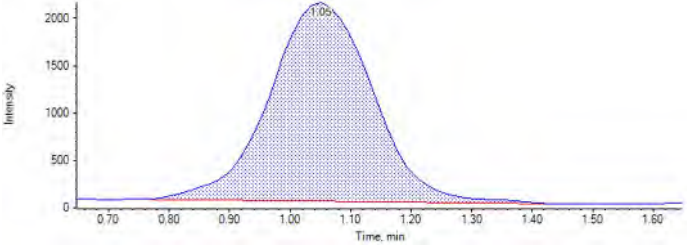
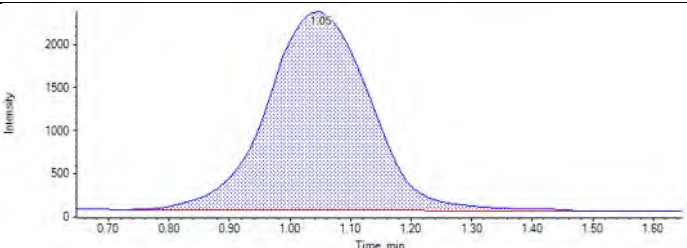
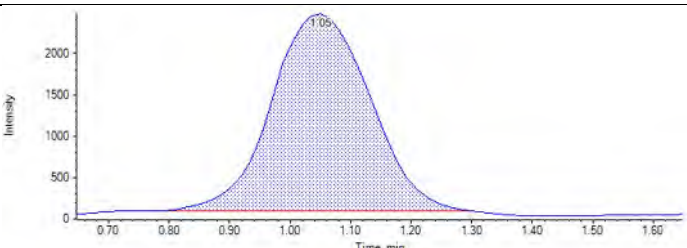
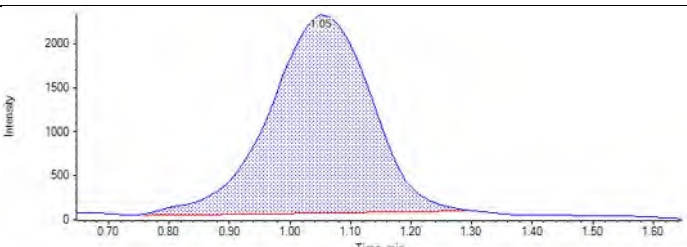
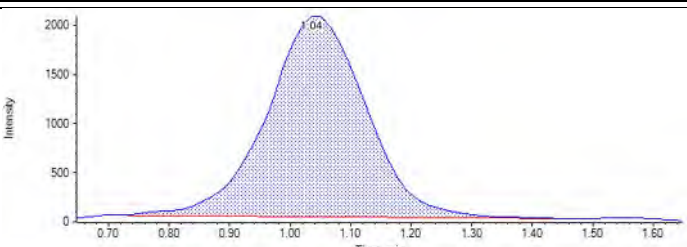


J5387MSD-FS-D(5)	
RT (Exp. RT):	1.05 (1.15) min
Calculated Conc:	102.436018 ng/L
Area:	23087.130979
Modified:	(False)





<p>J5388-FS-D(5)</p> <p>RT (Exp. RT): 1.06 (1.15) min</p> <p>Calculated Conc: 135.700805 ng/L</p> <p>Area: 26381.531207</p> <p>Modified: (False)</p>	
<p>J5389-FS-D(5)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 148.817085 ng/L</p> <p>Area: 27237.719752</p> <p>Modified: (True)</p>	
<p>J5390-FS-D(5)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 114.681593 ng/L</p> <p>Area: 29201.208353</p> <p>Modified: (False)</p>	
<p>JU10 CCV</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 96.074931 ng/L</p> <p>Area: 23323.646035</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

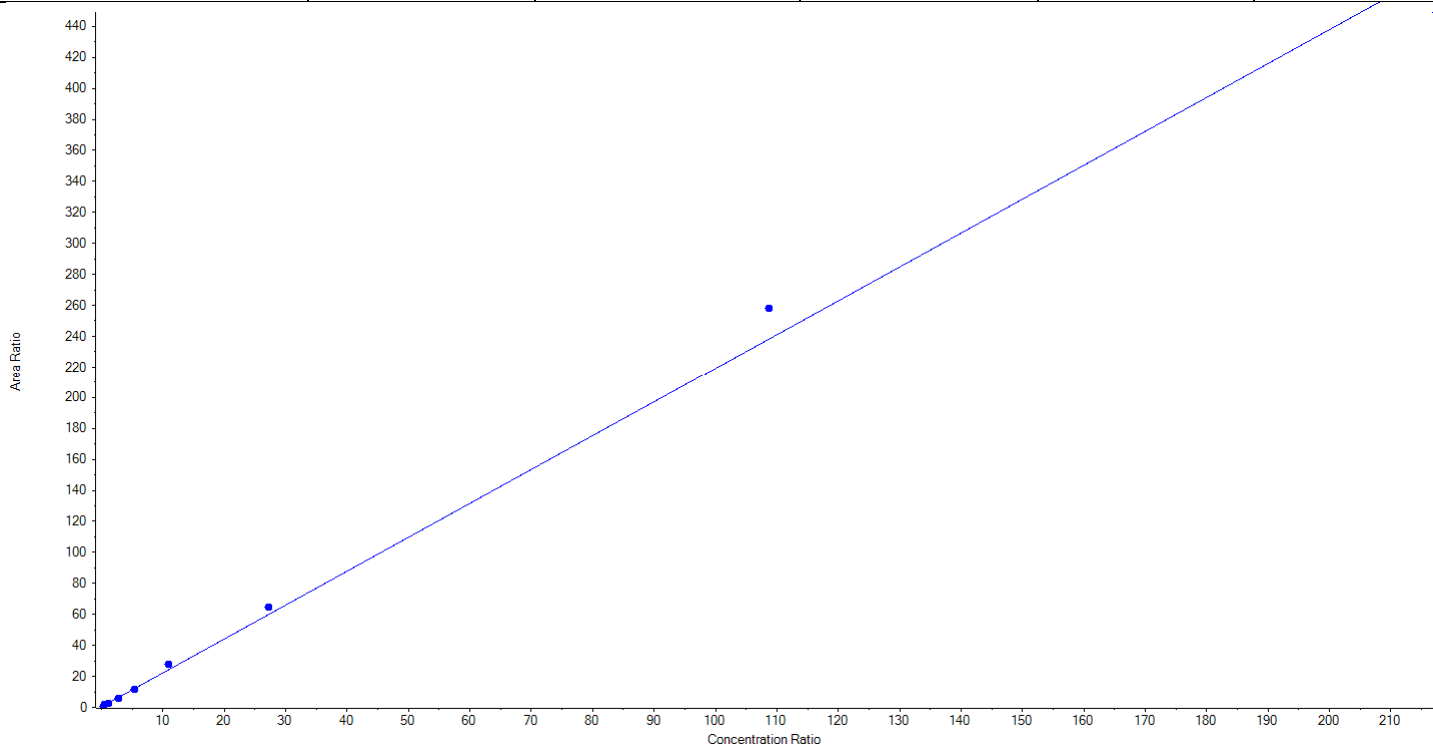
<p>J5392-FS-D(5)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 118.790548 ng/L</p> <p>Area: 24972.617213</p> <p>Modified: (False)</p>	
<p>J5395-FS-D(5)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 113.161031 ng/L</p> <p>Area: 27363.613495</p> <p>Modified: (False)</p>	
<p>J5396-FS-D(5)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 124.214001 ng/L</p> <p>Area: 27085.058182</p> <p>Modified: (True)</p>	
<p>J5397-FS-D(5)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 129.706219 ng/L</p> <p>Area: 26326.949919</p> <p>Modified: (True)</p>	
<p>JU08 CCV</p> <p>RT (Exp. RT): 1.04 (1.15) min</p> <p>Calculated Conc: 105.357306 ng/L</p> <p>Area: 23364.279642</p> <p>Modified: (False)</p>	

**Analyte Name:** PFBS\_1  
**Internal Standard:** 13C3-PFBS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 2.18745x + 0.38225$  (r = 0.99726) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	23.133236	91.6	N/A	N/A
50.50000	1 of 1	55.886592	110.7	N/A	N/A
101.00000	1 of 1	87.163084	86.3	N/A	N/A
252.50000	1 of 1	229.381129	90.8	N/A	N/A
505.00000	1 of 1	474.110294	93.9	N/A	N/A
1010.00000	1 of 1	1166.027800	115.5	N/A	N/A
2525.00000	1 of 1	2741.992350	108.6	N/A	N/A
10100.00000	1 of 1	10943.205444	108.4	N/A	N/A
20200.00000	1 of 1	19048.350072	94.3	N/A	N/A

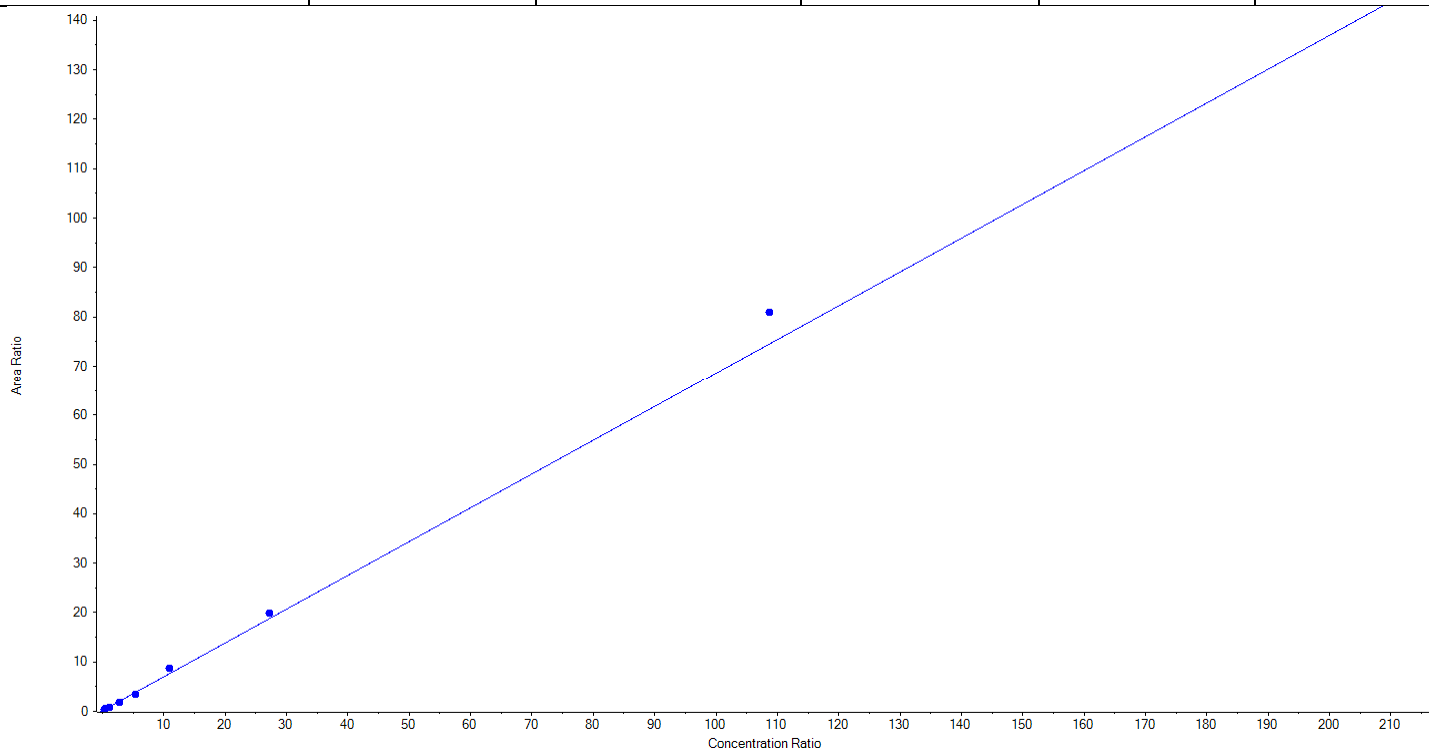


**Analyte Name:** PFBS\_2  
**Internal Standard:** 13C3-PFBS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.68407x + 0.15672$  ( $r = 0.99735$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	22.827342	90.4	N/A	N/A
50.50000	1 of 1	54.920579	108.8	N/A	N/A
101.00000	1 of 1	95.348578	94.4	N/A	N/A
252.50000	1 of 1	232.612471	92.1	N/A	N/A
505.00000	1 of 1	448.640793	88.8	N/A	N/A
1010.00000	1 of 1	1174.990896	116.3	N/A	N/A
2525.00000	1 of 1	2677.209151	106.0	N/A	N/A
10100.00000	1 of 1	10965.358307	108.6	N/A	N/A
20200.00000	1 of 1	19097.341882	94.5	N/A	N/A

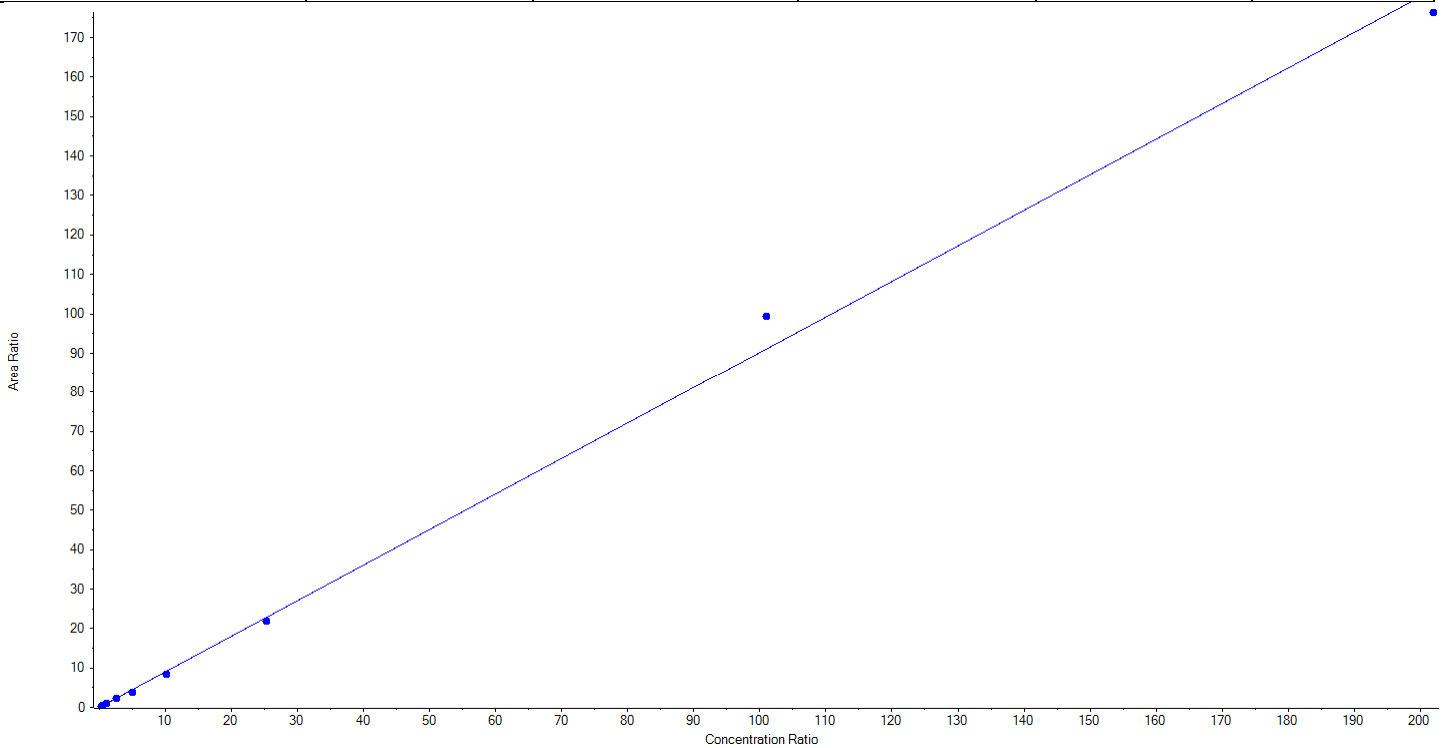


**Analyte Name:** PFHxA\_1  
**Internal Standard:** 13C5-PFHxA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.90163x + 0.02064$  ( $r = 0.99805$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	29.323363	116.1	N/A	N/A
50.50000	1 of 1	54.845712	108.6	N/A	N/A
101.00000	1 of 1	103.073511	102.1	N/A	N/A
252.50000	1 of 1	247.279848	97.9	N/A	N/A
505.00000	1 of 1	416.678143	82.5	N/A	N/A
1010.00000	1 of 1	916.426719	90.7	N/A	N/A
2525.00000	1 of 1	2427.864390	96.2	N/A	N/A
10100.00000	1 of 1	11013.601074	109.1	N/A	N/A
20200.00000	1 of 1	19560.157239	96.8	N/A	N/A

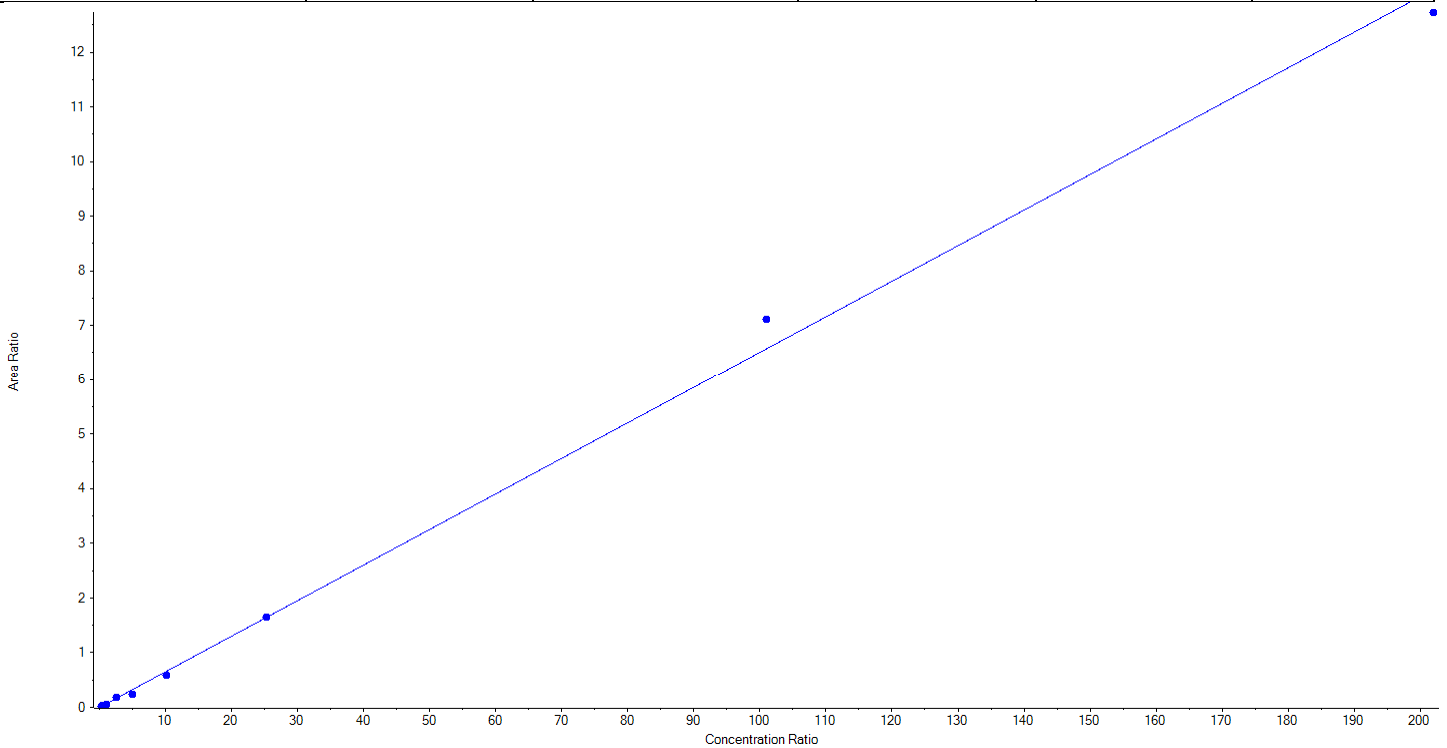


**Analyte Name:** PFHxA\_2  
**Internal Standard:** 13C5-PFHxA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.06508x + 1.01684e-4$  ( $r = 0.99797$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	25.788130	102.1	N/A	N/A
50.50000	1 of 1	61.613692	122.0	N/A	N/A
101.00000	1 of 1	98.228932	97.3	N/A	N/A
252.50000	1 of 1	273.750615	108.4	N/A	N/A
505.00000	1 of 1	379.136656	75.1	N/A	N/A
1010.00000	1 of 1	907.452133	89.9	N/A	N/A
2525.00000	1 of 1	2528.019149	100.1	N/A	N/A
10100.00000	1 of 1	10944.260977	108.4	N/A	N/A
20200.00000	1 of 1	19550.999717	96.8	N/A	N/A



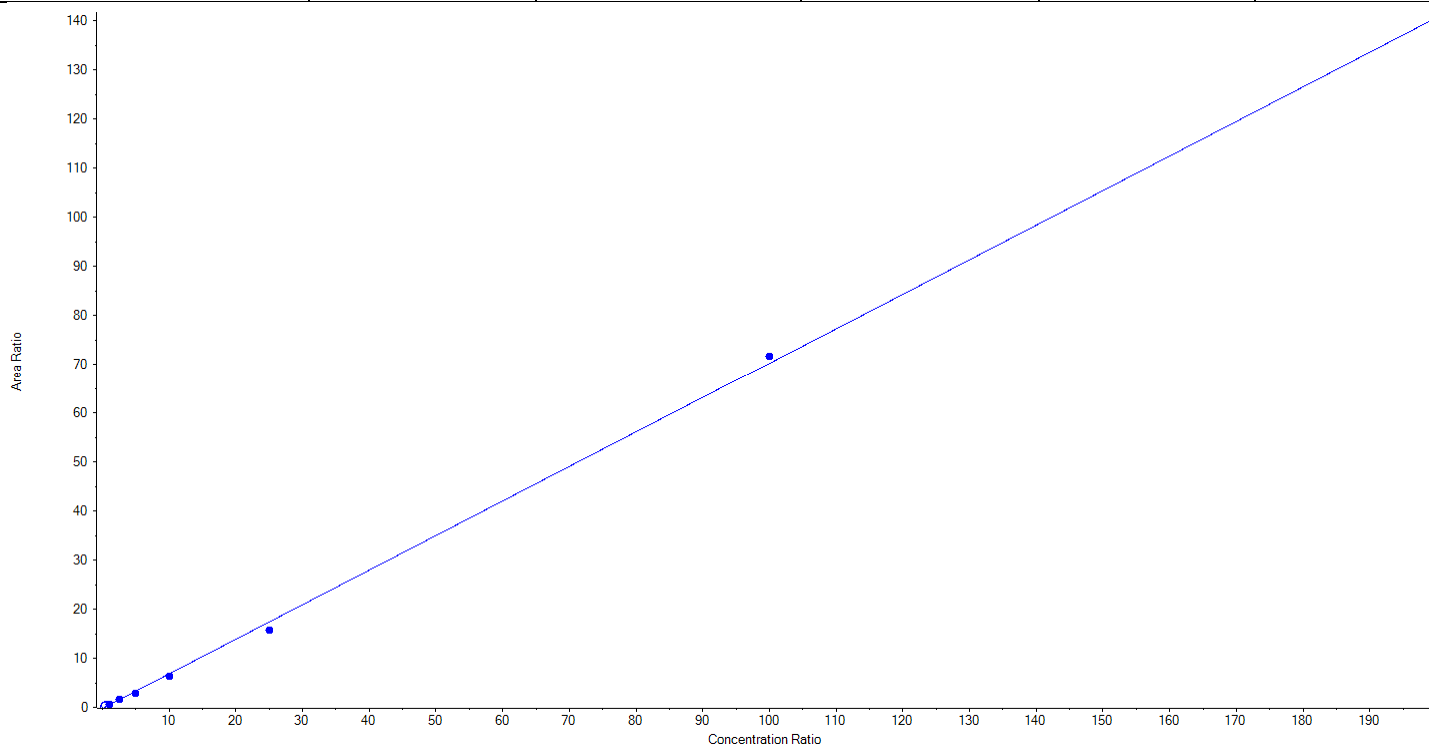


**Analyte Name:** PFHpA\_1  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.70421 x + -0.21391$  (r = 0.99921) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	126.677290	126.7	N/A	N/A
250.00000	1 of 1	251.606443	100.6	N/A	N/A
500.00000	1 of 1	435.826509	87.2	N/A	N/A
1000.00000	1 of 1	923.643237	92.4	N/A	N/A
2500.00000	1 of 1	2258.900966	90.4	N/A	N/A
10000.00000	1 of 1	10205.548132	102.1	N/A	N/A
20000.00000	1 of 1	20147.797423	100.7	N/A	N/A

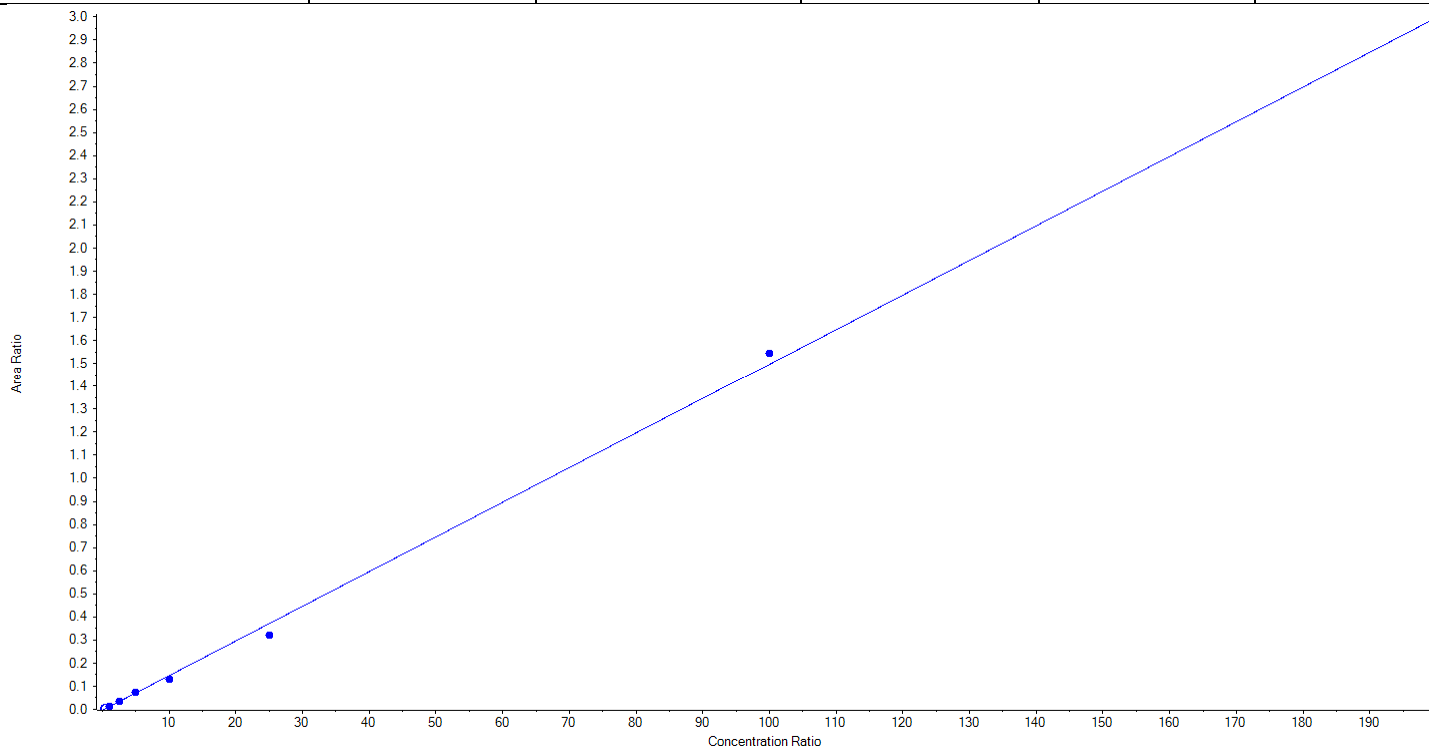


**Analyte Name:** PFHpA\_2  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.01500x + -0.00394$  ( $r = 0.99880$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	109.865247	109.9	N/A	N/A
250.00000	1 of 1	268.022015	107.2	N/A	N/A
500.00000	1 of 1	524.009955	104.8	N/A	N/A
1000.00000	1 of 1	883.574575	88.4	N/A	N/A
2500.00000	1 of 1	2152.378430	86.1	N/A	N/A
10000.00000	1 of 1	10322.122471	103.2	N/A	N/A
20000.00000	1 of 1	20090.027307	100.5	N/A	N/A

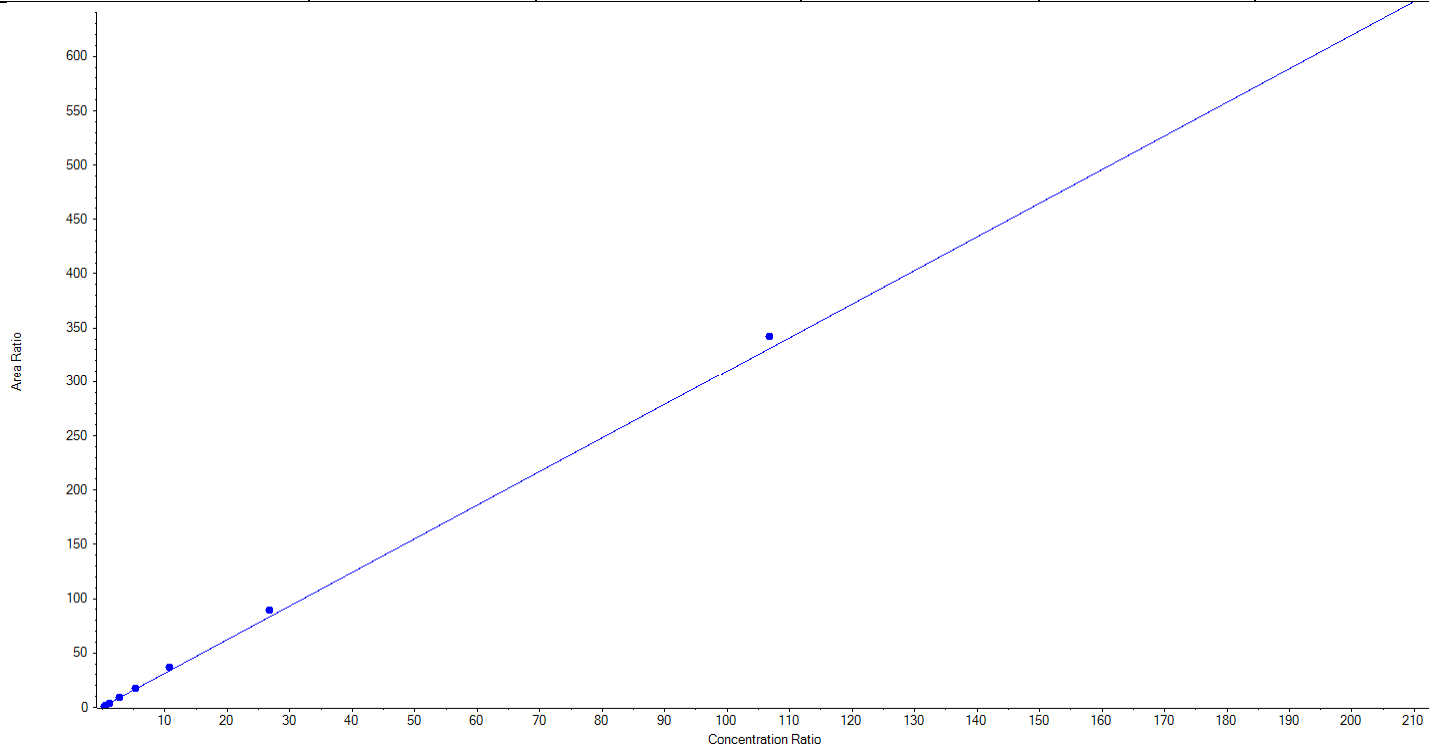


**Analyte Name:** PFHxS\_1  
**Internal Standard:** 13C3-PFHxS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 3.09576x + 0.48680$  ( $r = 0.99908$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	22.937318	90.8	N/A	N/A
50.50000	1 of 1	49.075900	97.2	N/A	N/A
101.00000	1 of 1	89.812255	88.9	N/A	N/A
252.50000	1 of 1	255.369183	101.1	N/A	N/A
505.00000	1 of 1	517.625925	102.5	N/A	N/A
1010.00000	1 of 1	1126.539821	111.5	N/A	N/A
2525.00000	1 of 1	2721.490627	107.8	N/A	N/A
10100.00000	1 of 1	10433.642448	103.3	N/A	N/A
20200.00000	1 of 1	19552.756523	96.8	N/A	N/A

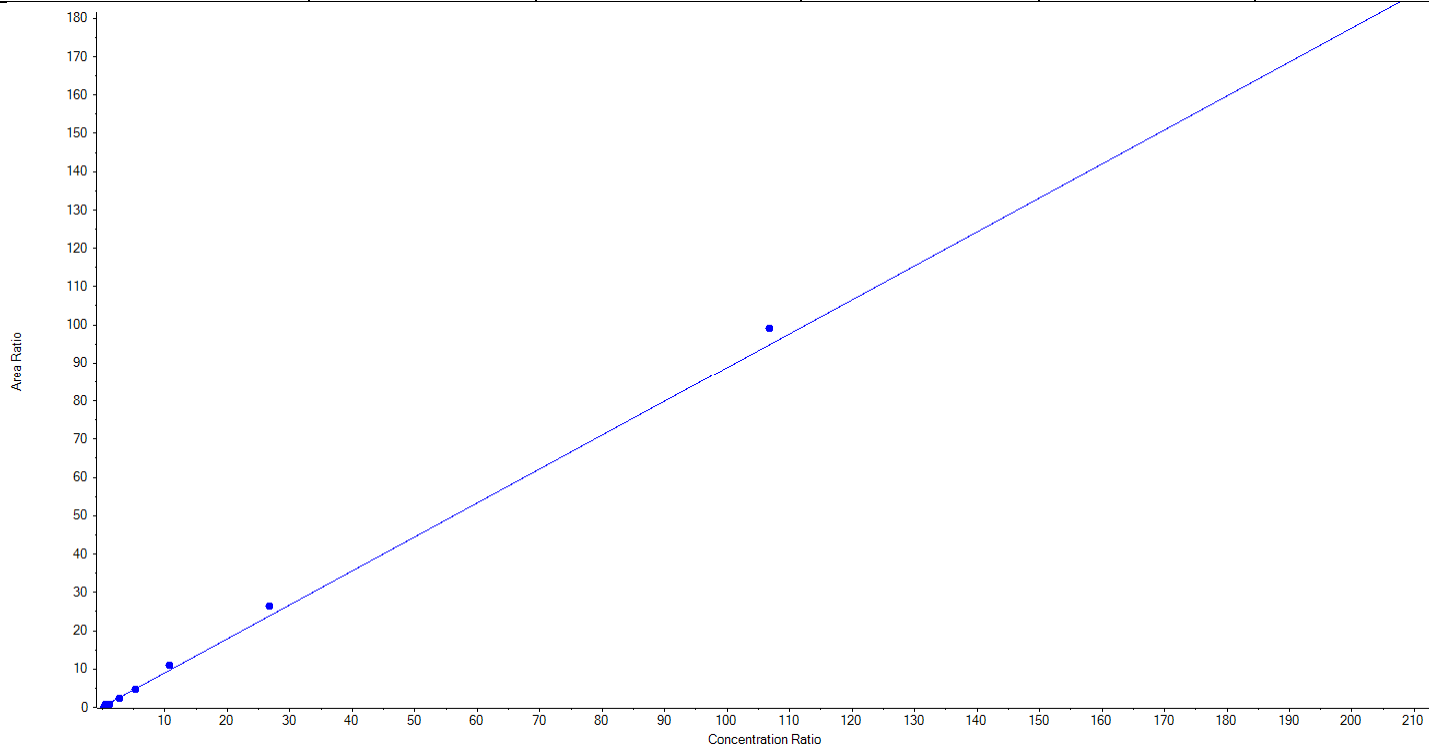


**Analyte Name:** PFHxS\_2  
**Internal Standard:** 13C3-PFHxS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.88658x + 0.15355$  ( $r = 0.99823$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	21.106561	83.6	N/A	N/A
50.50000	1 of 1	60.509038	119.8	N/A	N/A
101.00000	1 of 1	79.595844	78.8	N/A	N/A
252.50000	1 of 1	238.852883	94.6	N/A	N/A
505.00000	1 of 1	486.949855	96.4	N/A	N/A
1010.00000	1 of 1	1167.168355	115.6	N/A	N/A
2525.00000	1 of 1	2796.910116	110.8	N/A	N/A
10100.00000	1 of 1	10568.937184	104.6	N/A	N/A
20200.00000	1 of 1	19349.220166	95.8	N/A	N/A

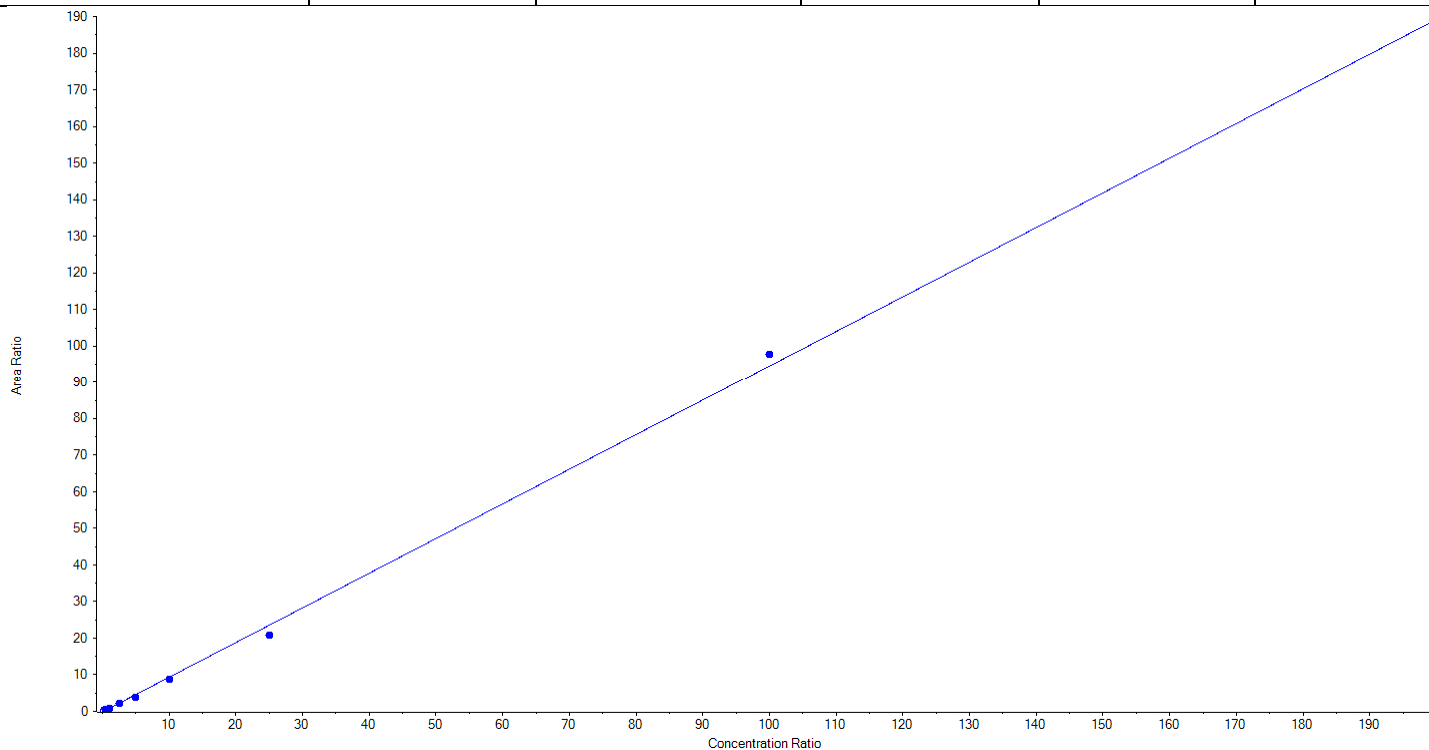


**Analyte Name:** PFOA\_1  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.94687x + -0.12530$  ( $r = 0.99894$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	64.906343	129.8	N/A	N/A
100.00000	1 of 1	103.754820	103.8	N/A	N/A
250.00000	1 of 1	245.616257	98.3	N/A	N/A
500.00000	1 of 1	411.578937	82.3	N/A	N/A
1000.00000	1 of 1	935.494107	93.6	N/A	N/A
2500.00000	1 of 1	2212.000554	88.5	N/A	N/A
10000.00000	1 of 1	10341.505236	103.4	N/A	N/A
20000.00000	1 of 1	20085.143746	100.4	N/A	N/A

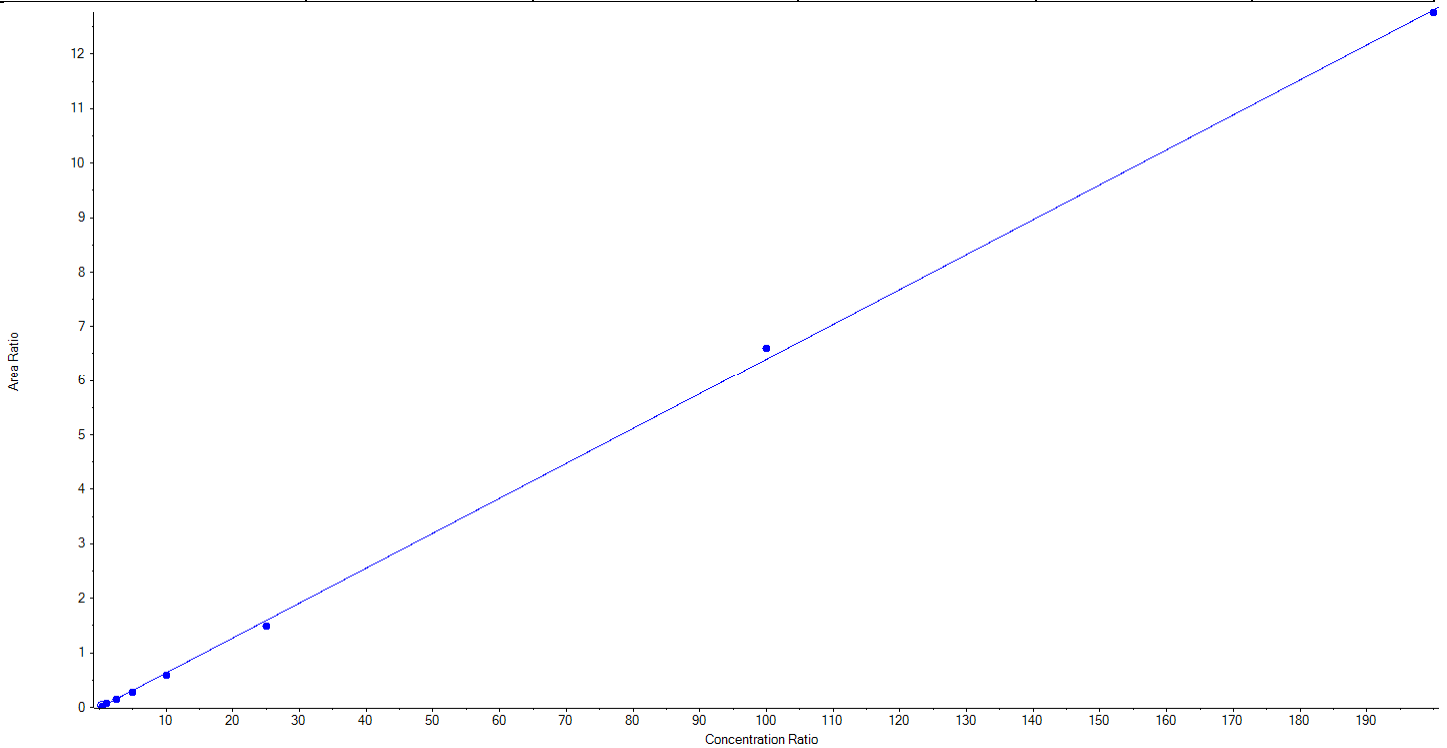


**Analyte Name:** PFOA\_2  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.06408x + -0.00873$  ( $r = 0.99936$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	46.202837	92.4	N/A	N/A
100.00000	1 of 1	129.513486	129.5	N/A	N/A
250.00000	1 of 1	250.652124	100.3	N/A	N/A
500.00000	1 of 1	437.291935	87.5	N/A	N/A
1000.00000	1 of 1	937.461254	93.8	N/A	N/A
2500.00000	1 of 1	2342.170705	93.7	N/A	N/A
10000.00000	1 of 1	10329.022157	103.3	N/A	N/A
20000.00000	1 of 1	19927.685501	99.6	N/A	N/A



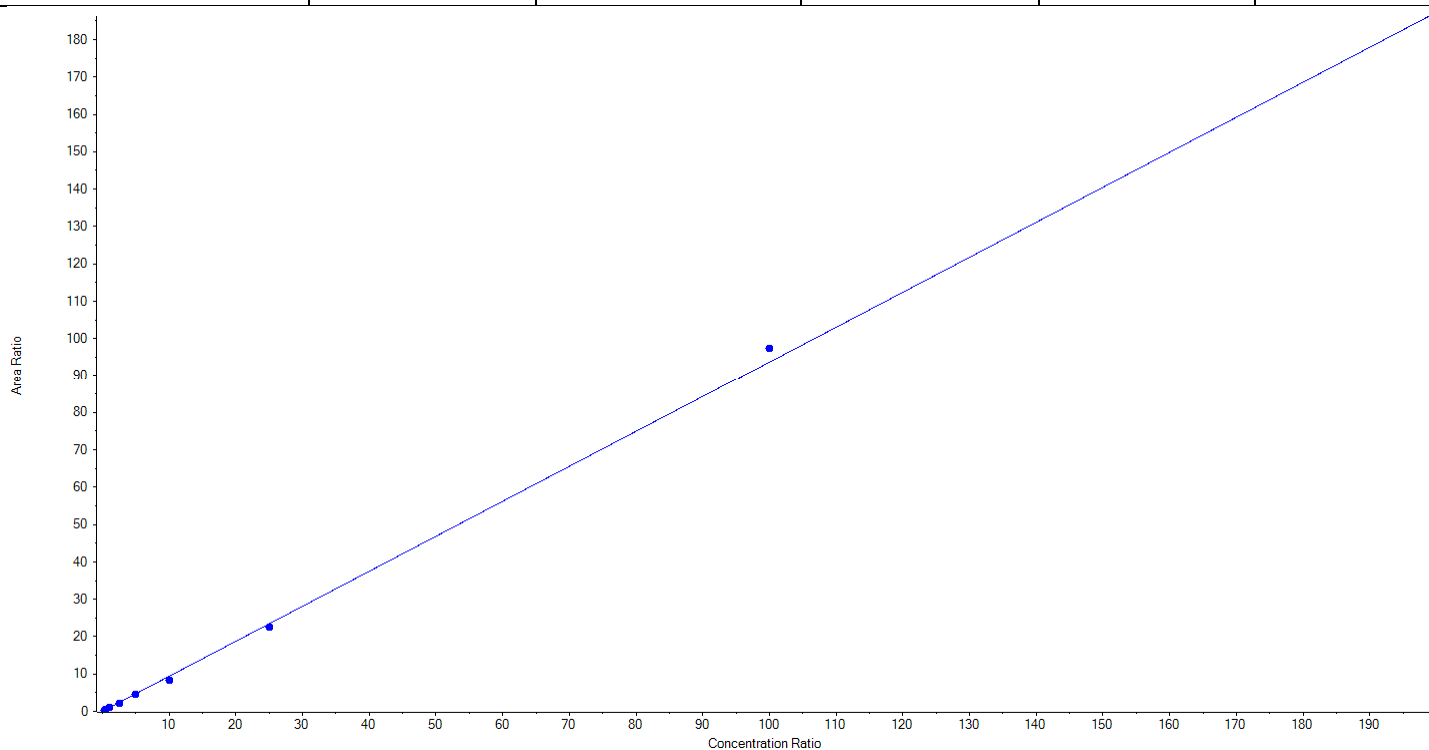


**Analyte Name:** PFNA\_1  
**Internal Standard:** 13C9-PFNA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.93630x + 0.04136$  ( $r = 0.99939$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	26.408705	105.6	N/A	N/A
50.00000	1 of 1	57.571578	115.1	N/A	N/A
100.00000	1 of 1	110.965588	111.0	N/A	N/A
250.00000	1 of 1	214.792597	85.9	N/A	N/A
500.00000	1 of 1	472.424505	94.5	N/A	N/A
1000.00000	1 of 1	888.246591	88.8	N/A	N/A
2500.00000	1 of 1	2395.783223	95.8	N/A	N/A
10000.00000	1 of 1	10380.894532	103.8	N/A	N/A
20000.00000	1 of 1	19877.912682	99.4	N/A	N/A

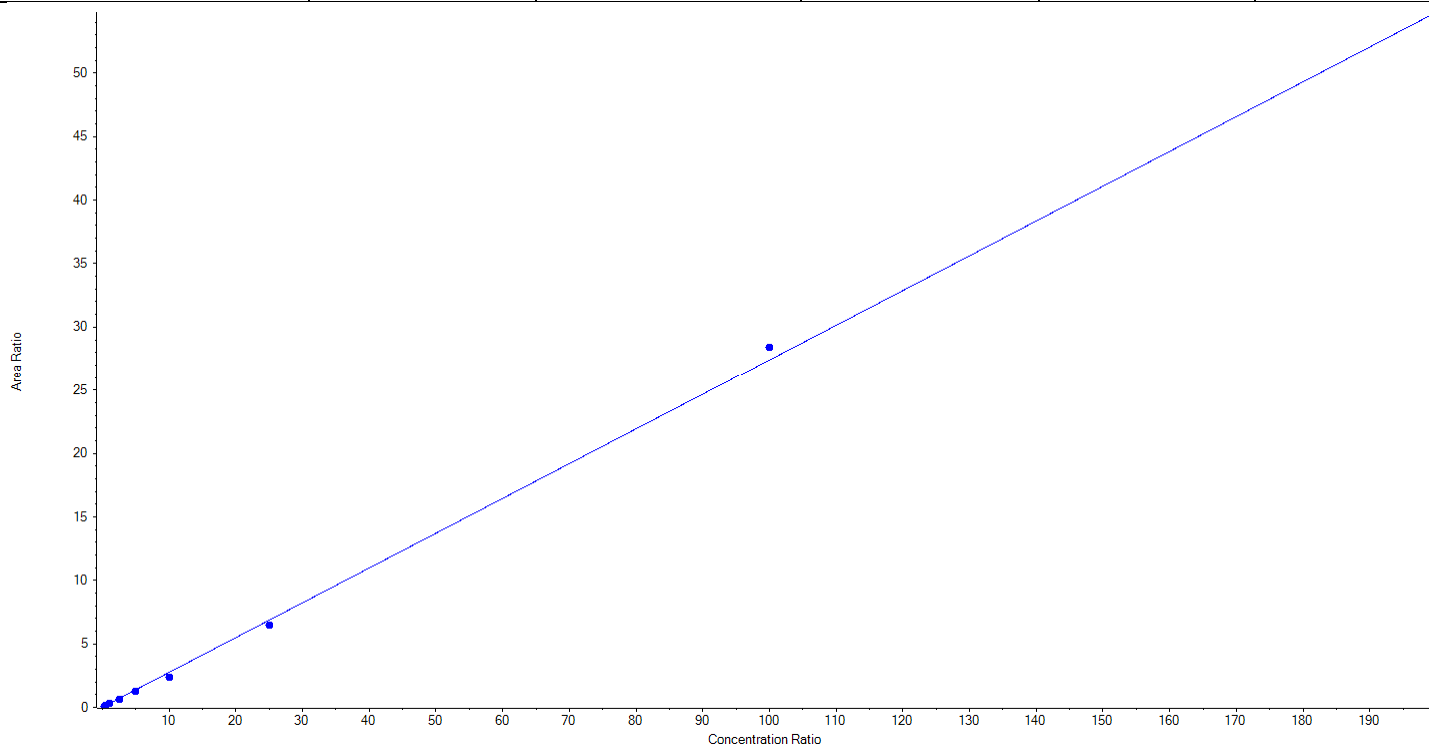


**Analyte Name:** PFNA\_2  
**Internal Standard:** 13C9-PFNA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.27387x + 0.01962$  ( $r = 0.99922$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	28.172571	112.7	N/A	N/A
50.00000	1 of 1	58.909086	117.8	N/A	N/A
100.00000	1 of 1	106.814777	106.8	N/A	N/A
250.00000	1 of 1	220.169138	88.1	N/A	N/A
500.00000	1 of 1	457.975669	91.6	N/A	N/A
1000.00000	1 of 1	853.213868	85.3	N/A	N/A
2500.00000	1 of 1	2354.800788	94.2	N/A	N/A
10000.00000	1 of 1	10355.167921	103.6	N/A	N/A
20000.00000	1 of 1	19989.776181	100.0	N/A	N/A

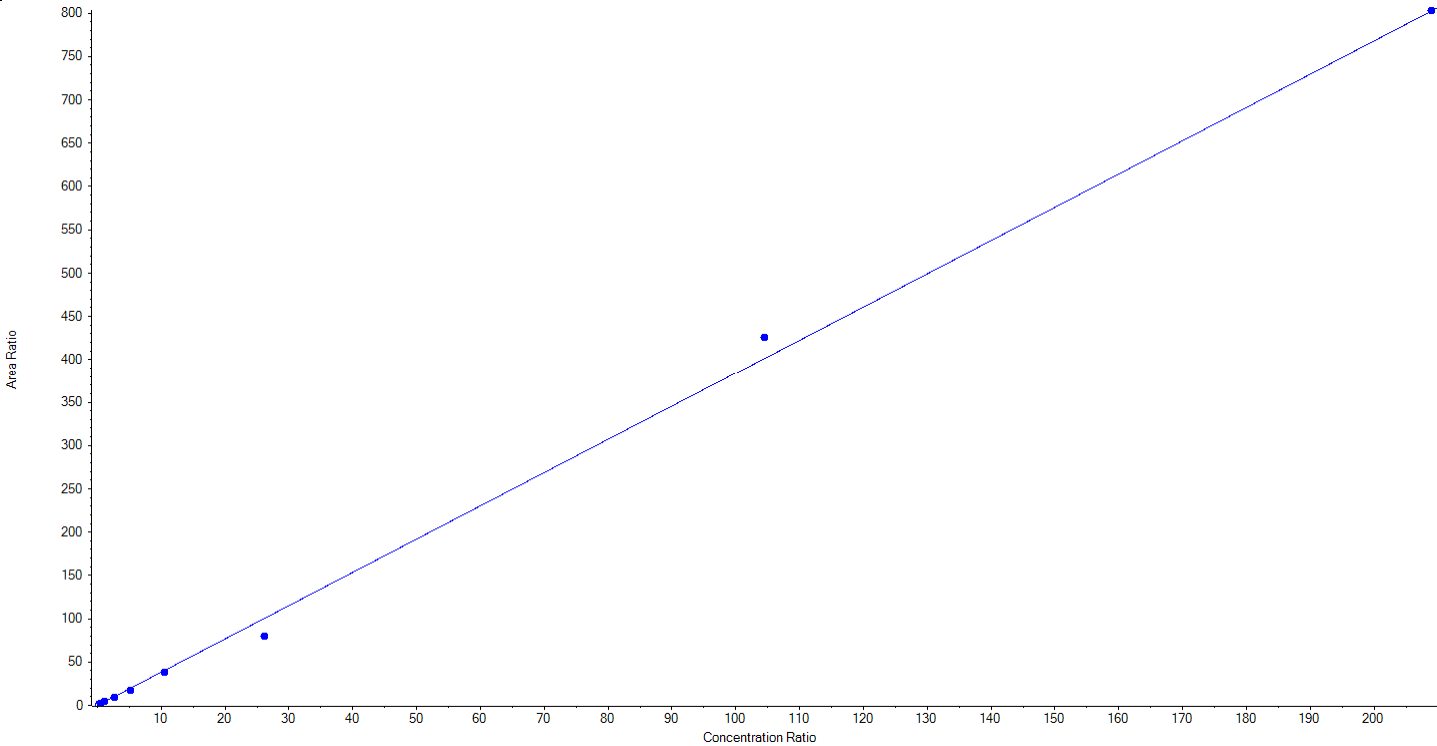


**Analyte Name:** PFOS\_1  
**Internal Standard:** 13C8-PFOS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 3.84024 x + -0.03957$  (r = 0.99757) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	59.585154	119.2	N/A	N/A
100.00000	1 of 1	121.841415	121.8	N/A	N/A
250.00000	1 of 1	227.760706	91.1	N/A	N/A
500.00000	1 of 1	436.117197	87.2	N/A	N/A
1000.00000	1 of 1	949.783027	95.0	N/A	N/A
2500.00000	1 of 1	1989.930640	79.6	N/A	N/A
10000.00000	1 of 1	10602.023283	106.0	N/A	N/A
20000.00000	1 of 1	20012.958577	100.1	N/A	N/A

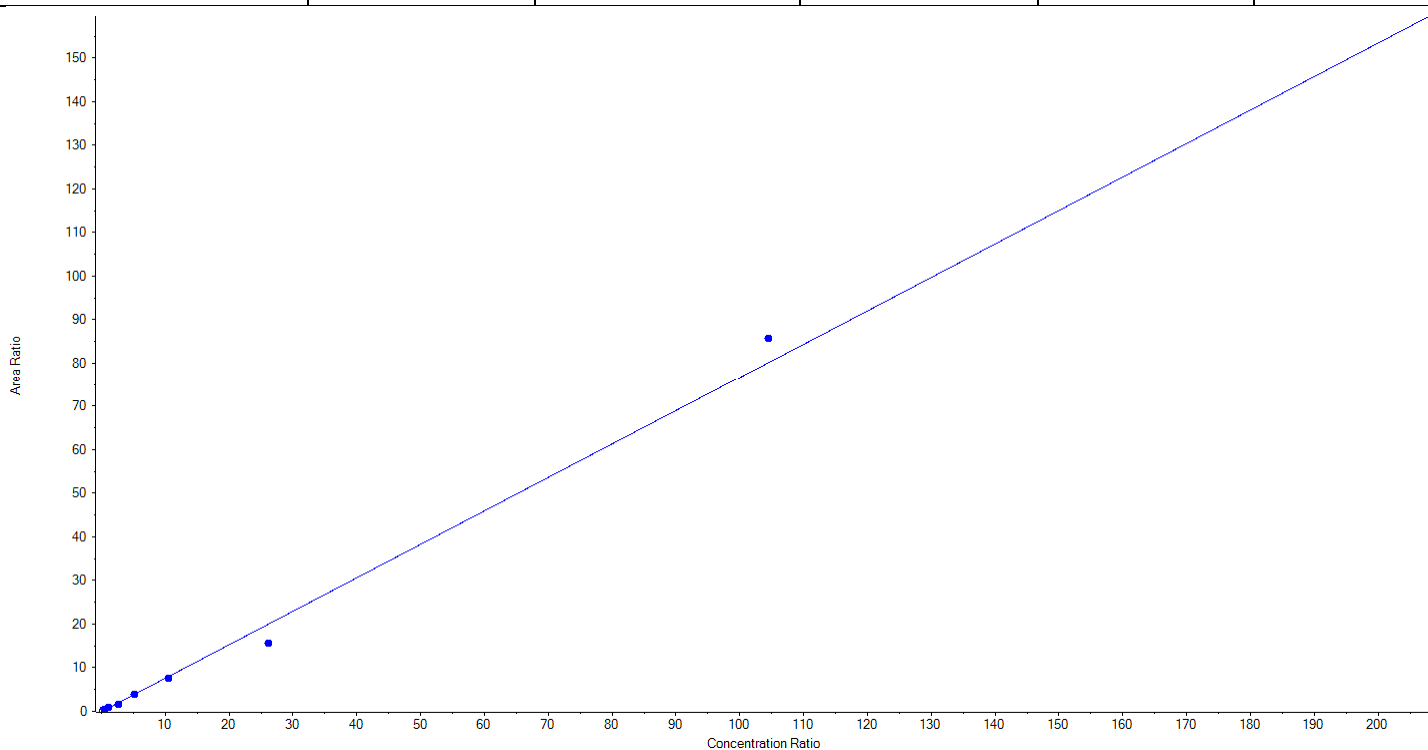


**Analyte Name:** PFOS\_2  
**Internal Standard:** 13C8-PFOS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.76758x + -0.06908$  ( $r = 0.99718$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	54.284882	108.6	N/A	N/A
100.00000	1 of 1	124.600002	124.6	N/A	N/A
250.00000	1 of 1	220.153966	88.1	N/A	N/A
500.00000	1 of 1	489.624992	97.9	N/A	N/A
1000.00000	1 of 1	965.520411	96.6	N/A	N/A
2500.00000	1 of 1	1944.107796	77.8	N/A	N/A
10000.00000	1 of 1	10703.751120	107.0	N/A	N/A
20000.00000	1 of 1	19897.956831	99.5	N/A	N/A

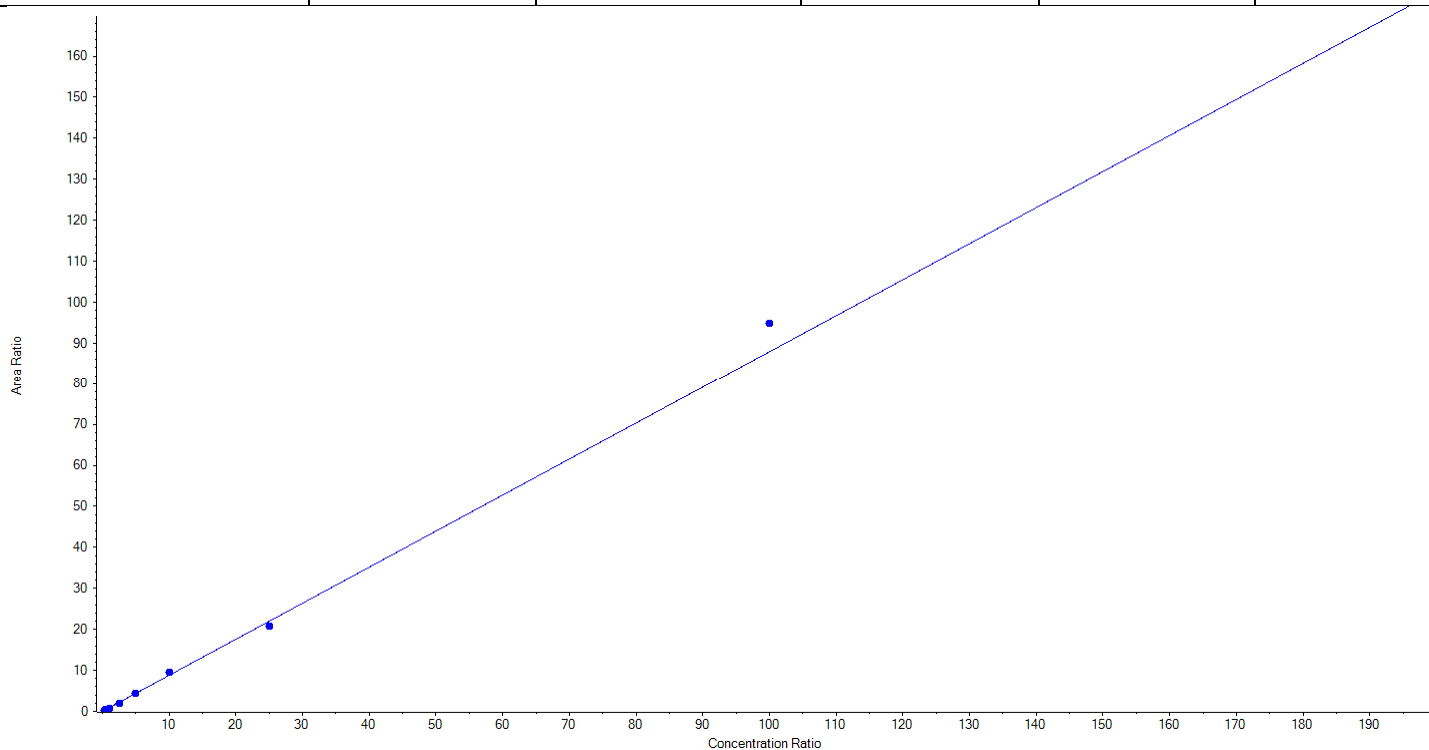


**Analyte Name:** PFDA\_1  
**Internal Standard:** 13C6-PFDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.87913x + 0.01398$  ( $r = 0.99840$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	24.035377	96.1	N/A	N/A
50.00000	1 of 1	57.556930	115.1	N/A	N/A
100.00000	1 of 1	94.427831	94.4	N/A	N/A
250.00000	1 of 1	219.062611	87.6	N/A	N/A
500.00000	1 of 1	493.107586	98.6	N/A	N/A
1000.00000	1 of 1	1091.945398	109.2	N/A	N/A
2500.00000	1 of 1	2364.046126	94.6	N/A	N/A
10000.00000	1 of 1	10781.952515	107.8	N/A	N/A
20000.00000	1 of 1	19298.865625	96.5	N/A	N/A

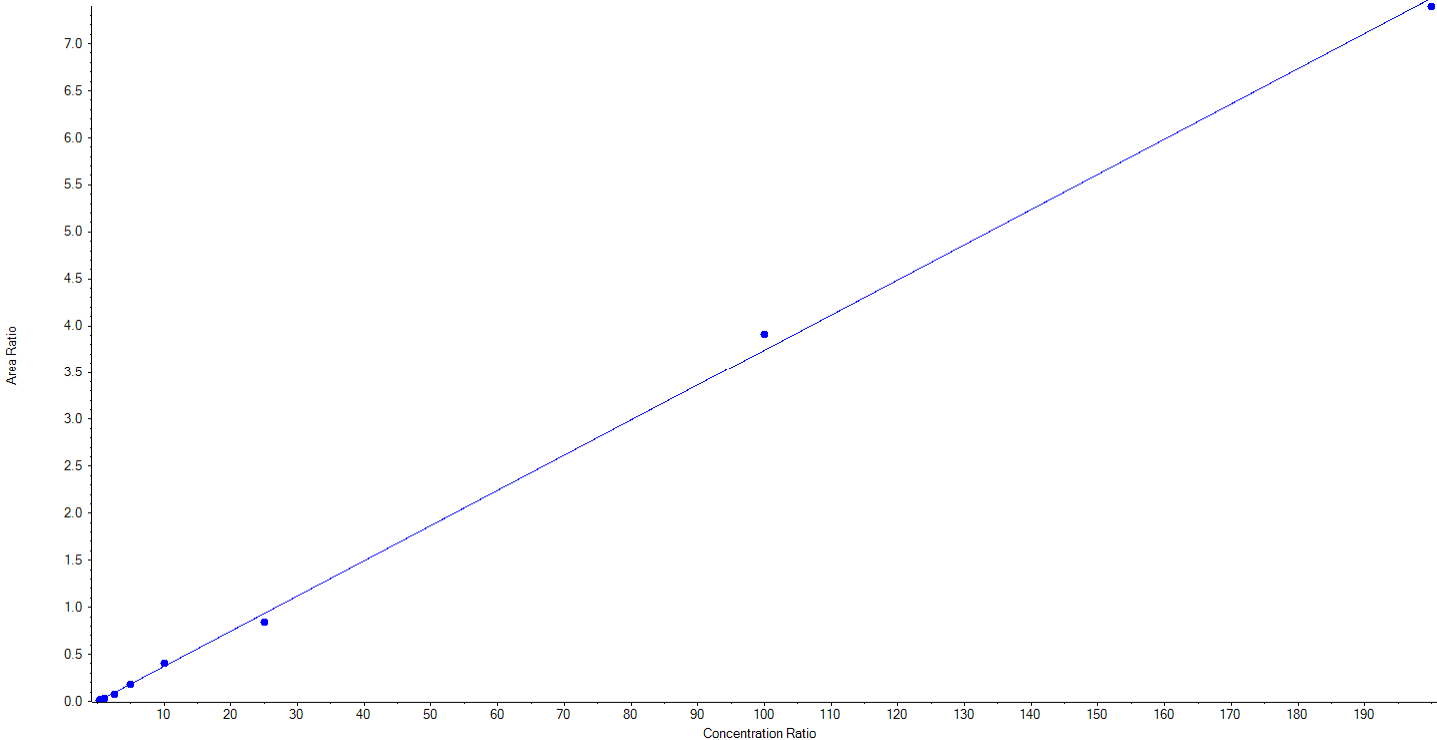


**Analyte Name:** PFDA\_2  
**Internal Standard:** 13C6-PFDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.03742 x + -0.00182$  (r = 0.99901) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	25.433676	101.7	N/A	N/A
50.00000	1 of 1	62.066931	124.1	N/A	N/A
100.00000	1 of 1	92.544003	92.5	N/A	N/A
250.00000	1 of 1	201.954782	80.8	N/A	N/A
500.00000	1 of 1	492.412977	98.5	N/A	N/A
1000.00000	1 of 1	1087.996321	108.8	N/A	N/A
2500.00000	1 of 1	2257.225740	90.3	N/A	N/A
10000.00000	1 of 1	10441.486410	104.4	N/A	N/A
20000.00000	1 of 1	19763.879159	98.8	N/A	N/A

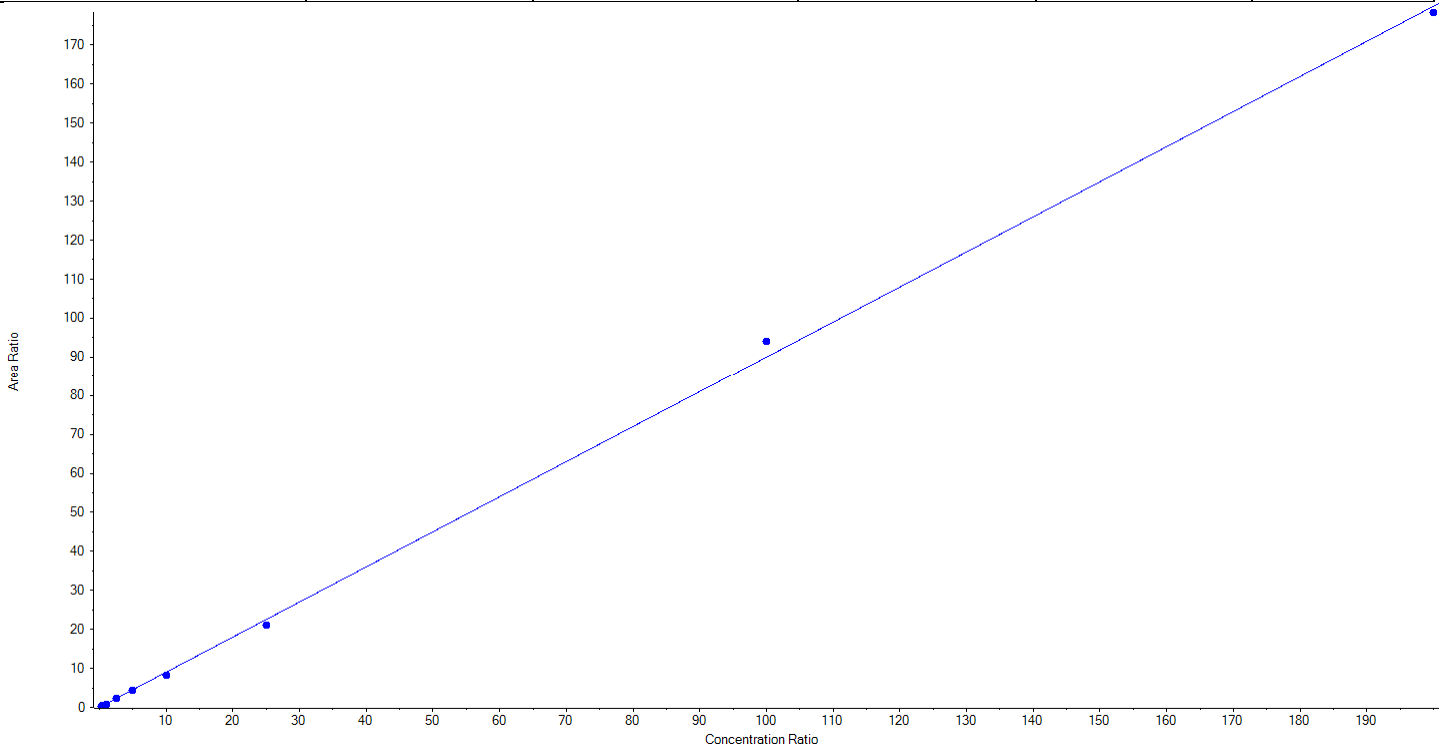


**Analyte Name:** PFUnA\_1  
**Internal Standard:** 13C7-PFUnA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.89966x + 0.03115$  ( $r = 0.99935$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	30.539769	122.2	N/A	N/A
50.00000	1 of 1	53.213871	106.4	N/A	N/A
100.00000	1 of 1	87.727520	87.7	N/A	N/A
250.00000	1 of 1	243.008644	97.2	N/A	N/A
500.00000	1 of 1	489.433442	97.9	N/A	N/A
1000.00000	1 of 1	916.880554	91.7	N/A	N/A
2500.00000	1 of 1	2332.216351	93.3	N/A	N/A
10000.00000	1 of 1	10451.781599	104.5	N/A	N/A
20000.00000	1 of 1	19820.198250	99.1	N/A	N/A



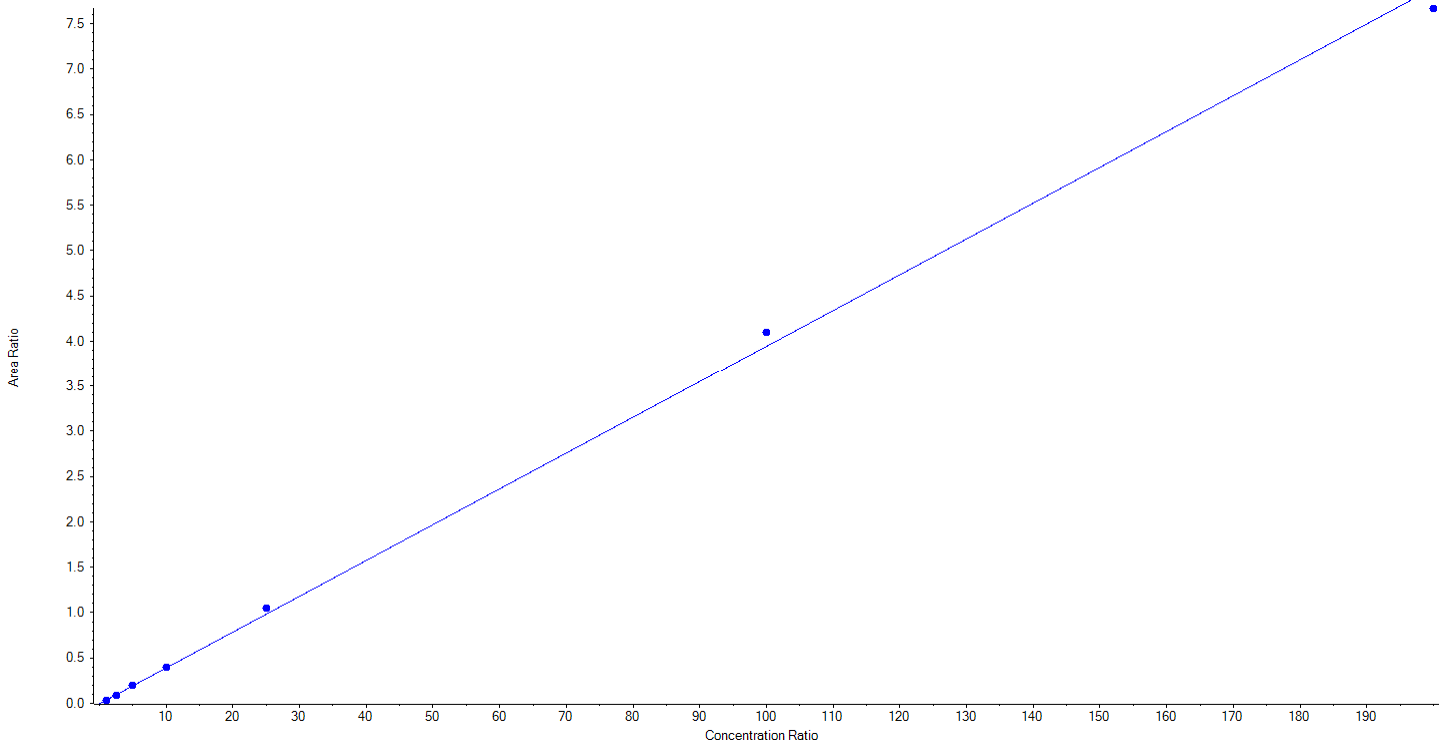


**Analyte Name:** PFUnA\_2  
**Internal Standard:** 13C7-PFUnA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.03948x + -0.00431$  ( $r = 0.99930$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	88.805487	88.8	N/A	N/A
250.00000	1 of 1	247.271558	98.9	N/A	N/A
500.00000	1 of 1	511.823131	102.4	N/A	N/A
1000.00000	1 of 1	1021.078885	102.1	N/A	N/A
2500.00000	1 of 1	2671.784446	106.9	N/A	N/A
10000.00000	1 of 1	10379.162990	103.8	N/A	N/A
20000.00000	1 of 1	19430.073503	97.2	N/A	N/A

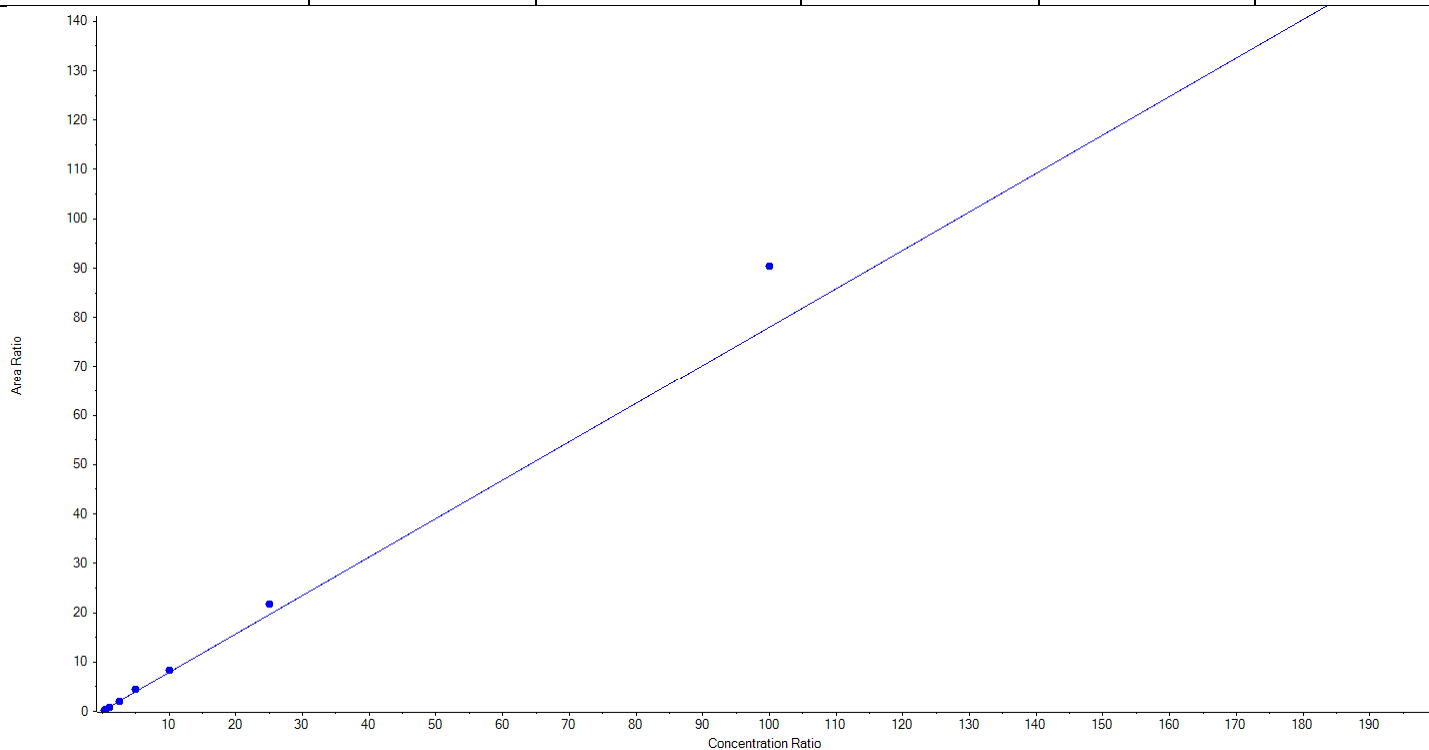


**Analyte Name:** PFDaA\_1  
**Internal Standard:** 13C2-PFDaA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.77920x + 0.11392$  ( $r = 0.99305$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	20.855428	83.4	N/A	N/A
50.00000	1 of 1	43.460589	86.9	N/A	N/A
100.00000	1 of 1	97.328906	97.3	N/A	N/A
250.00000	1 of 1	254.126128	101.7	N/A	N/A
500.00000	1 of 1	546.898506	109.4	N/A	N/A
1000.00000	1 of 1	1045.976761	104.6	N/A	N/A
2500.00000	1 of 1	2764.238202	110.6	N/A	N/A
10000.00000	1 of 1	11574.054096	115.7	N/A	N/A
20000.00000	1 of 1	18078.061385	90.4	N/A	N/A

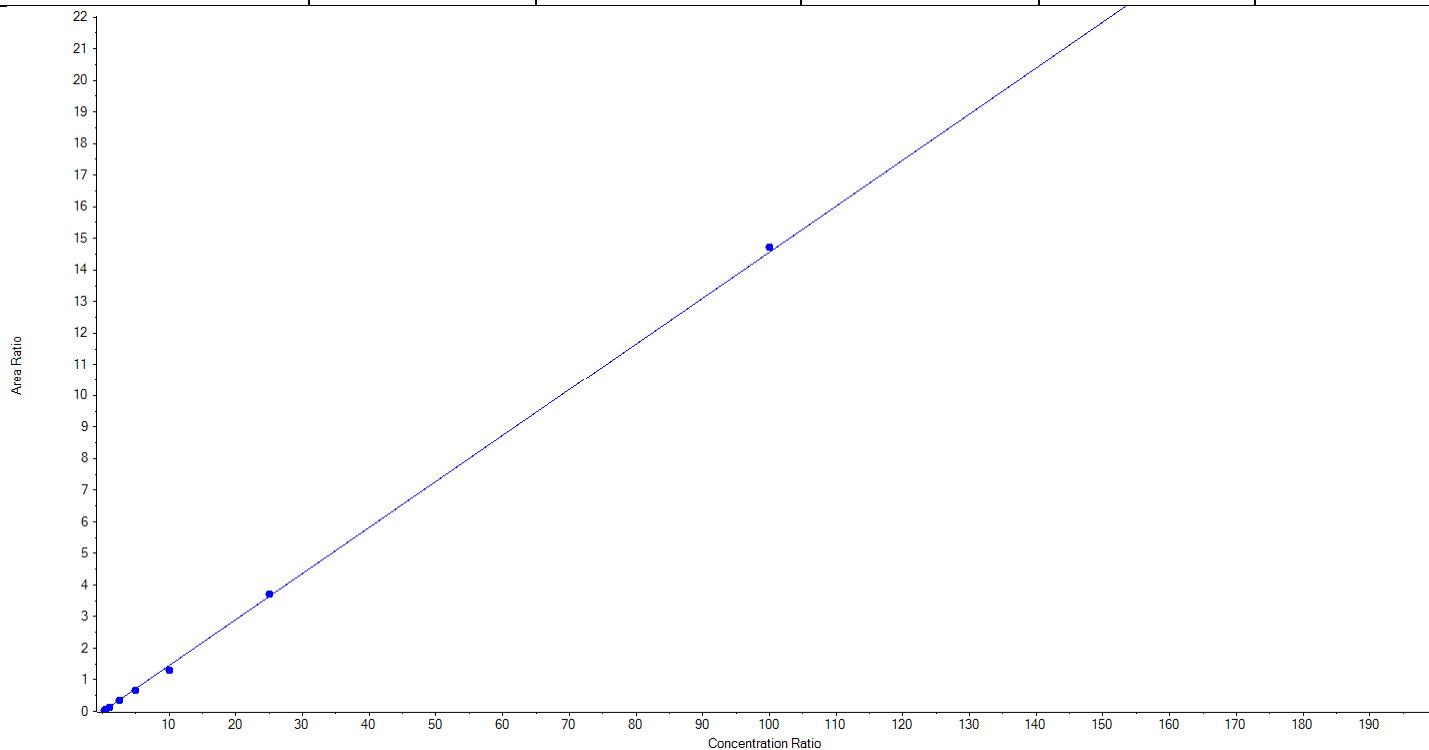


**Analyte Name:** PFDaA\_2  
**Internal Standard:** 13C2-PFDaA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.14569x + -0.00475$  ( $r = 0.99928$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	32.406706	129.6	N/A	N/A
50.00000	1 of 1	46.829534	93.7	N/A	N/A
100.00000	1 of 1	97.165942	97.2	N/A	N/A
250.00000	1 of 1	236.471294	94.6	N/A	N/A
500.00000	1 of 1	462.765301	92.6	N/A	N/A
1000.00000	1 of 1	893.050019	89.3	N/A	N/A
2500.00000	1 of 1	2551.282434	102.1	N/A	N/A
10000.00000	1 of 1	10105.028769	101.1	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A

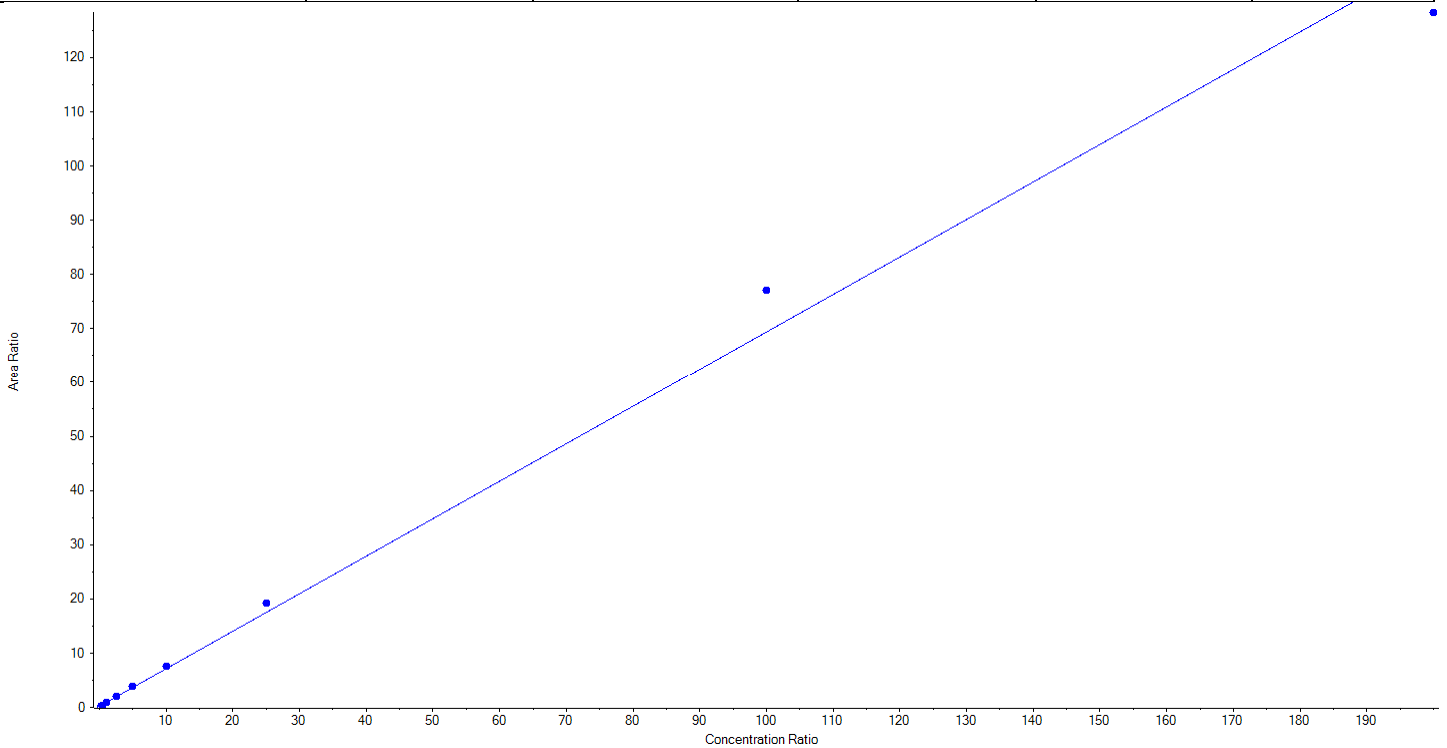


**Analyte Name:** PFTTrDA\_1  
**Internal Standard:** 13C2-PFTeDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.69172x + 0.21088$  (r = 0.99580) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	35.913950	71.8	N/A	N/A
100.00000	1 of 1	92.386404	92.4	N/A	N/A
250.00000	1 of 1	267.580630	107.0	N/A	N/A
500.00000	1 of 1	535.938234	107.2	N/A	N/A
1000.00000	1 of 1	1076.274180	107.6	N/A	N/A
2500.00000	1 of 1	2753.169286	110.1	N/A	N/A
10000.00000	1 of 1	11123.584284	111.2	N/A	N/A
20000.00000	1 of 1	18515.153032	92.6	N/A	N/A

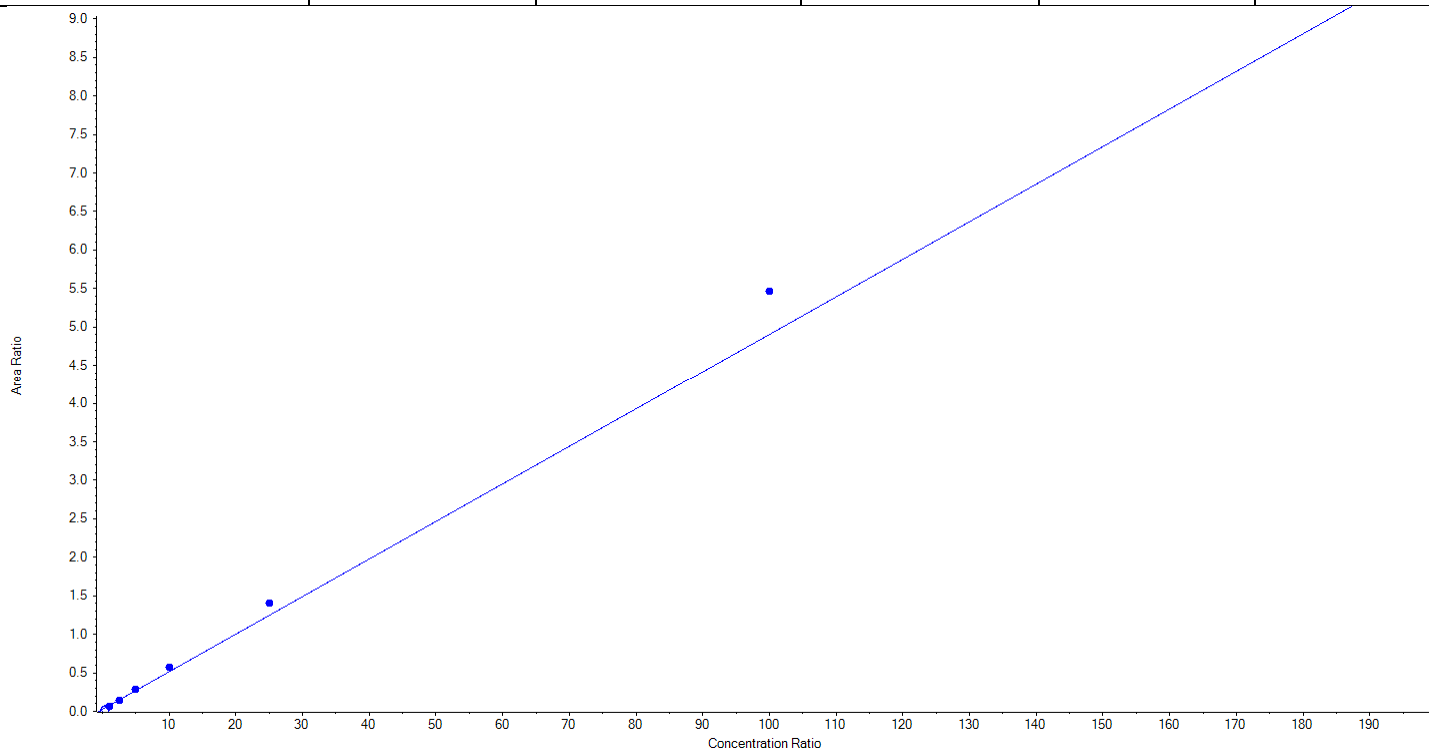


**Analyte Name:** PFTTrDA\_2  
**Internal Standard:** 13C2-PFTTeDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.04877x + 0.02686$  ( $r = 0.99515$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	76.773814	76.8	N/A	N/A
250.00000	1 of 1	229.999584	92.0	N/A	N/A
500.00000	1 of 1	520.388921	104.1	N/A	N/A
1000.00000	1 of 1	1107.771007	110.8	N/A	N/A
2500.00000	1 of 1	2817.086727	112.7	N/A	N/A
10000.00000	1 of 1	11139.619812	111.4	N/A	N/A
20000.00000	1 of 1	18458.360135	92.3	N/A	N/A

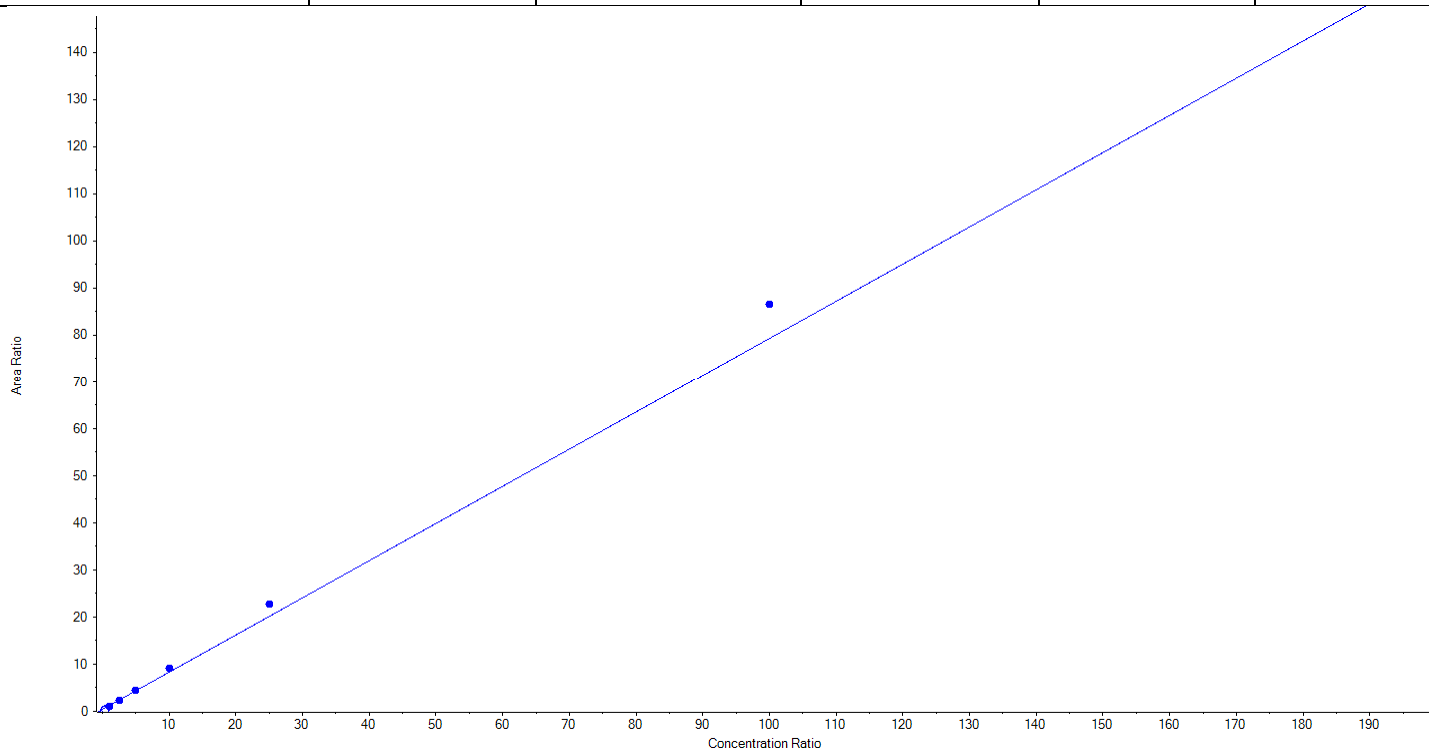


**Analyte Name:** PFTeDA\_1  
**Internal Standard:** 13C2-PFTeDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.78885x + 0.43047$  (r = 0.99623) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	71.817555	71.8	N/A	N/A
250.00000	1 of 1	245.085808	98.0	N/A	N/A
500.00000	1 of 1	517.938481	103.6	N/A	N/A
1000.00000	1 of 1	1105.559256	110.6	N/A	N/A
2500.00000	1 of 1	2839.848279	113.6	N/A	N/A
10000.00000	1 of 1	10912.363228	109.1	N/A	N/A
20000.00000	1 of 1	18657.387394	93.3	N/A	N/A

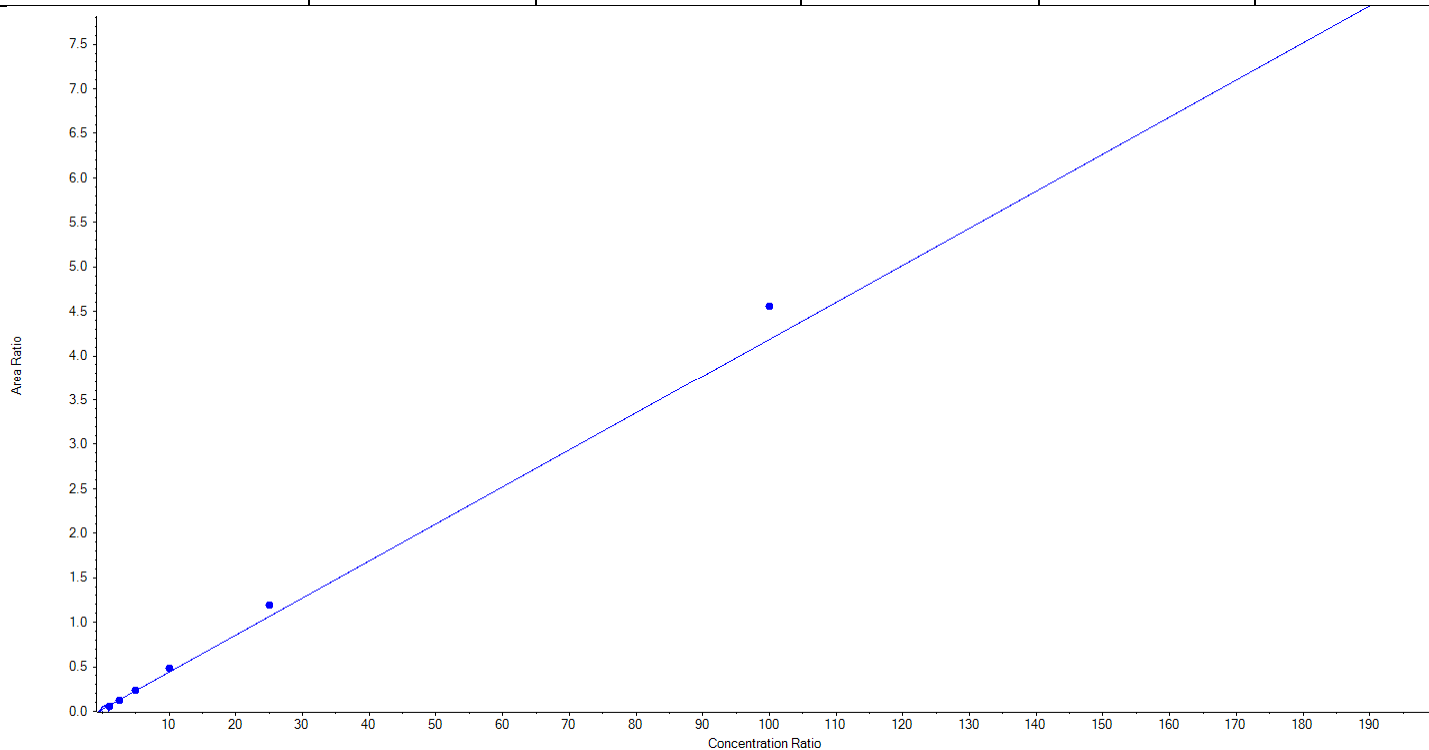


**Analyte Name:** PFTeDA\_2  
**Internal Standard:** 13C2-PFTeDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.04162x + 0.02436$  ( $r = 0.99656$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	72.757944	72.8	N/A	N/A
250.00000	1 of 1	249.187337	99.7	N/A	N/A
500.00000	1 of 1	517.884349	103.6	N/A	N/A
1000.00000	1 of 1	1091.324172	109.1	N/A	N/A
2500.00000	1 of 1	2807.397684	112.3	N/A	N/A
10000.00000	1 of 1	10900.936811	109.0	N/A	N/A
20000.00000	1 of 1	18710.511703	93.6	N/A	N/A



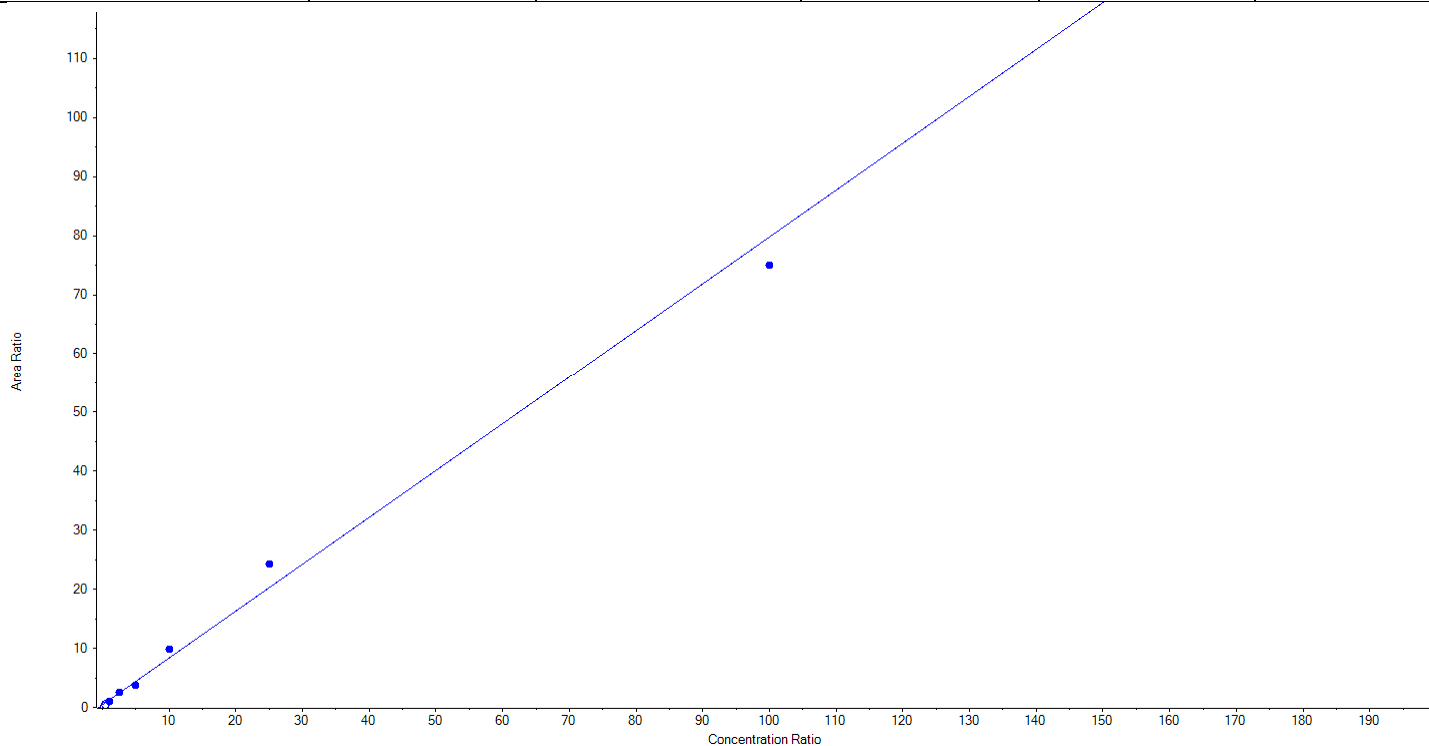


**Analyte Name:** NMeFOSAA\_1  
**Internal Standard:** d3-MeFOSAA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.79362x + 0.43415$  ( $r = 0.99254$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	74.272755	74.3	N/A	N/A
250.00000	1 of 1	273.477984	109.4	N/A	N/A
500.00000	1 of 1	422.761715	84.6	N/A	N/A
1000.00000	1 of 1	1180.017983	118.0	N/A	N/A
2500.00000	1 of 1	2992.907145	119.7	N/A	N/A
10000.00000	1 of 1	9406.562418	94.1	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A

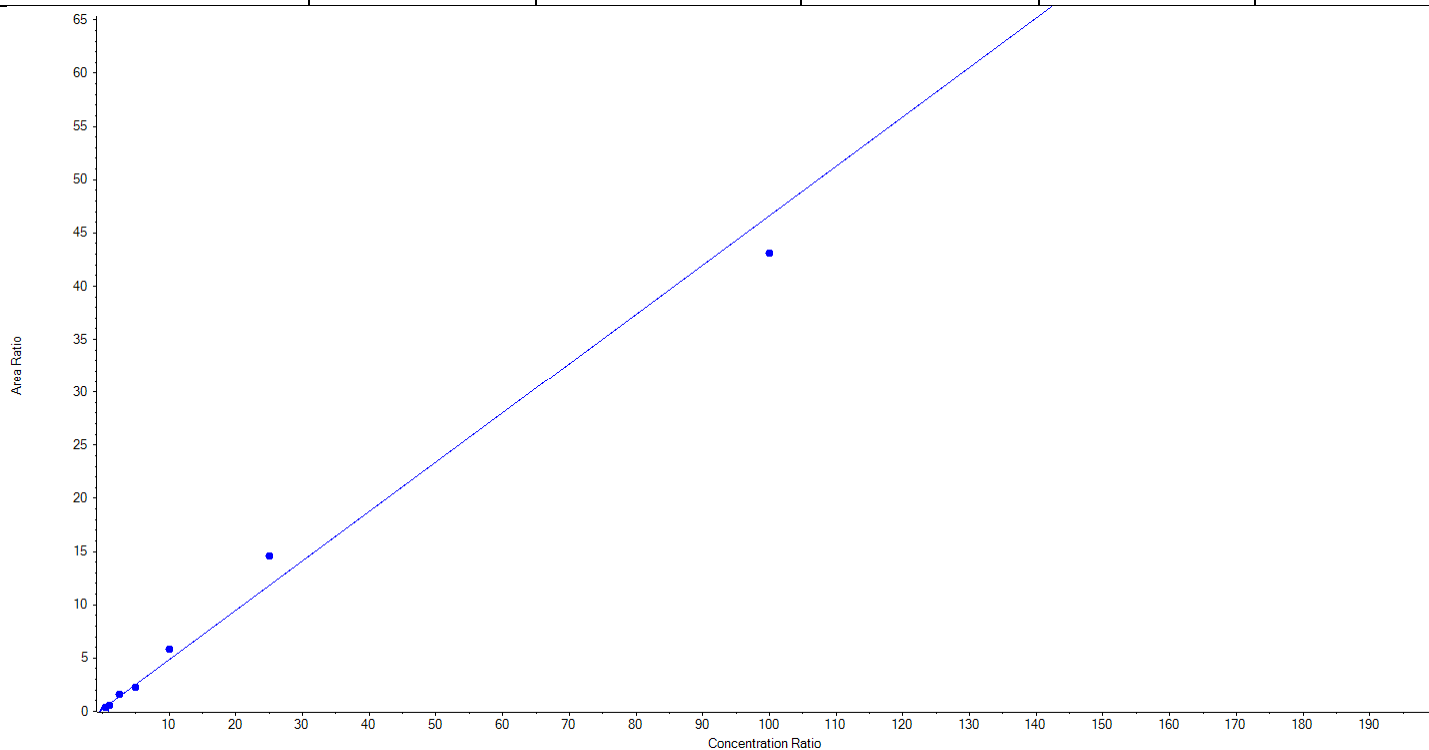


**Analyte Name:** NMeFOSAA\_2  
**Internal Standard:** d3-MeFOSAA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.46405x + 0.21158$  ( $r = 0.99032$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	38.736195	77.5	N/A	N/A
100.00000	1 of 1	80.173295	80.2	N/A	N/A
250.00000	1 of 1	290.165590	116.1	N/A	N/A
500.00000	1 of 1	447.227836	89.5	N/A	N/A
1000.00000	1 of 1	1208.293784	120.8	N/A	N/A
2500.00000	1 of 1	3088.636692	123.6	N/A	N/A
10000.00000	1 of 1	9246.766608	92.5	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A

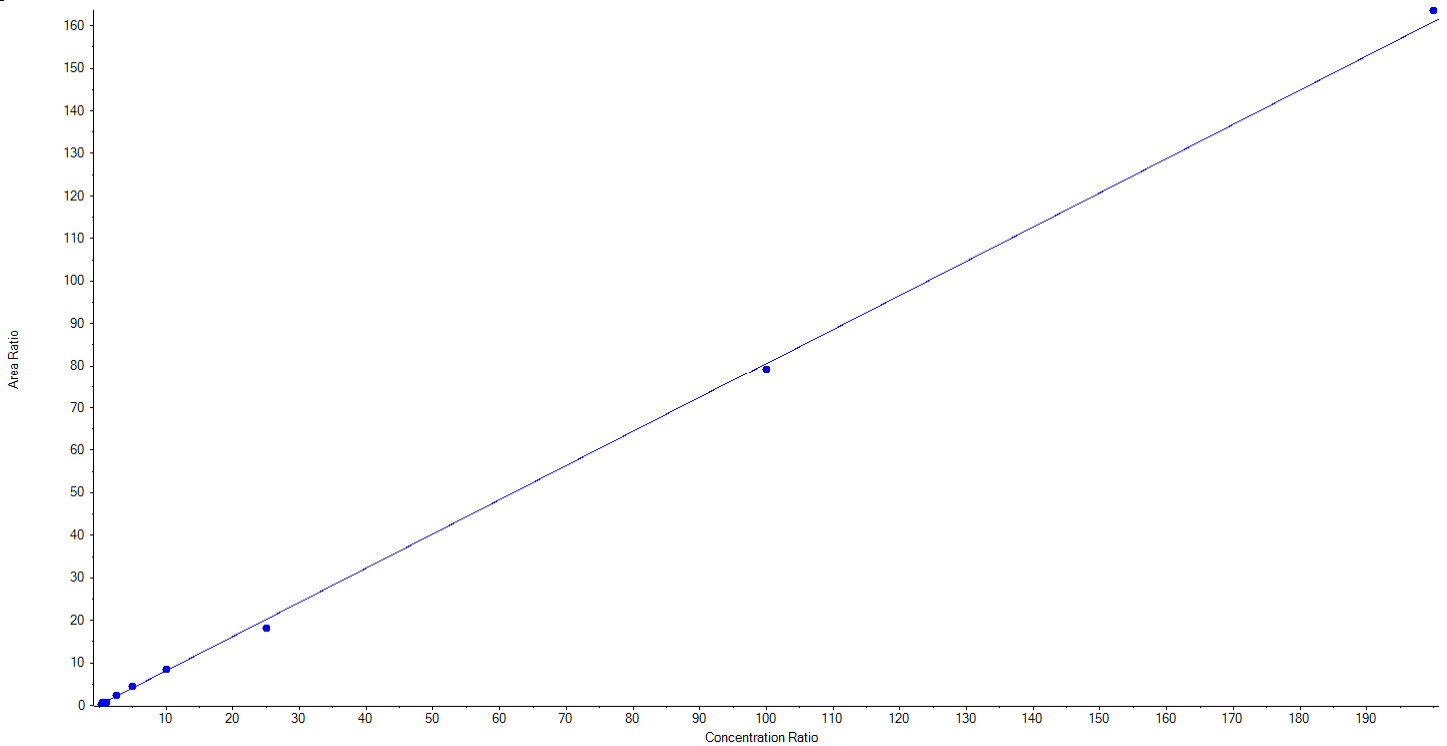


**Analyte Name:** NEtFOSAA\_1  
**Internal Standard:** d5-EtFOSAA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.80427x + 0.10895$  ( $r = 0.99925$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	19.094443	76.4	N/A	N/A
50.00000	1 of 1	64.289932	128.6	N/A	N/A
100.00000	1 of 1	83.146585	83.2	N/A	N/A
250.00000	1 of 1	276.946160	110.8	N/A	N/A
500.00000	1 of 1	529.488560	105.9	N/A	N/A
1000.00000	1 of 1	1054.448961	105.4	N/A	N/A
2500.00000	1 of 1	2247.617650	89.9	N/A	N/A
10000.00000	1 of 1	9824.032079	98.2	N/A	N/A
20000.00000	1 of 1	20325.935630	101.6	N/A	N/A

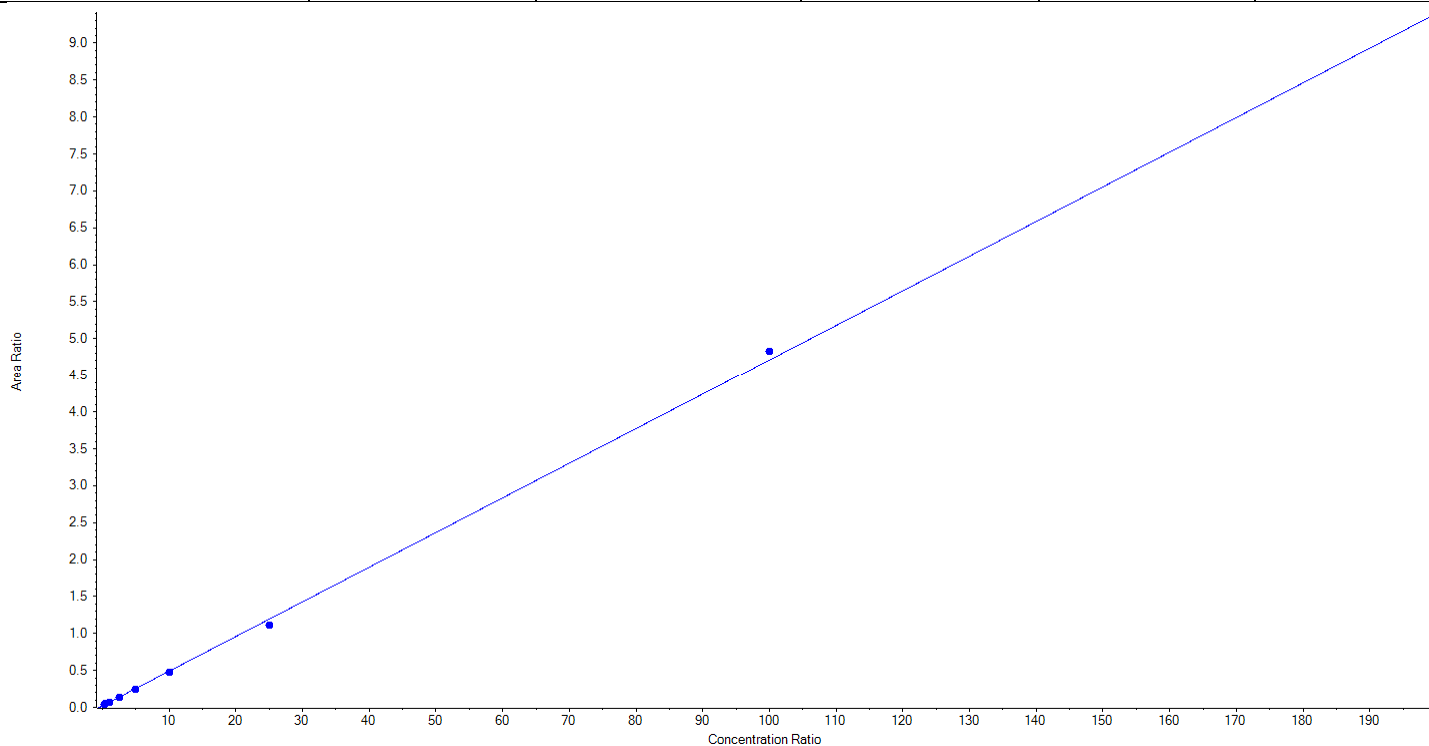


**Analyte Name:** NEtFOSAA\_2  
**Internal Standard:** d5-EtFOSAA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.04689x + 0.02133$  ( $r = 0.99956$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	29.600031	118.4	N/A	N/A
50.00000	1 of 1	56.985468	114.0	N/A	N/A
100.00000	1 of 1	92.381424	92.4	N/A	N/A
250.00000	1 of 1	230.691938	92.3	N/A	N/A
500.00000	1 of 1	460.829454	92.2	N/A	N/A
1000.00000	1 of 1	955.498792	95.6	N/A	N/A
2500.00000	1 of 1	2313.434396	92.5	N/A	N/A
10000.00000	1 of 1	10257.940241	102.6	N/A	N/A
20000.00000	1 of 1	20027.638257	100.1	N/A	N/A

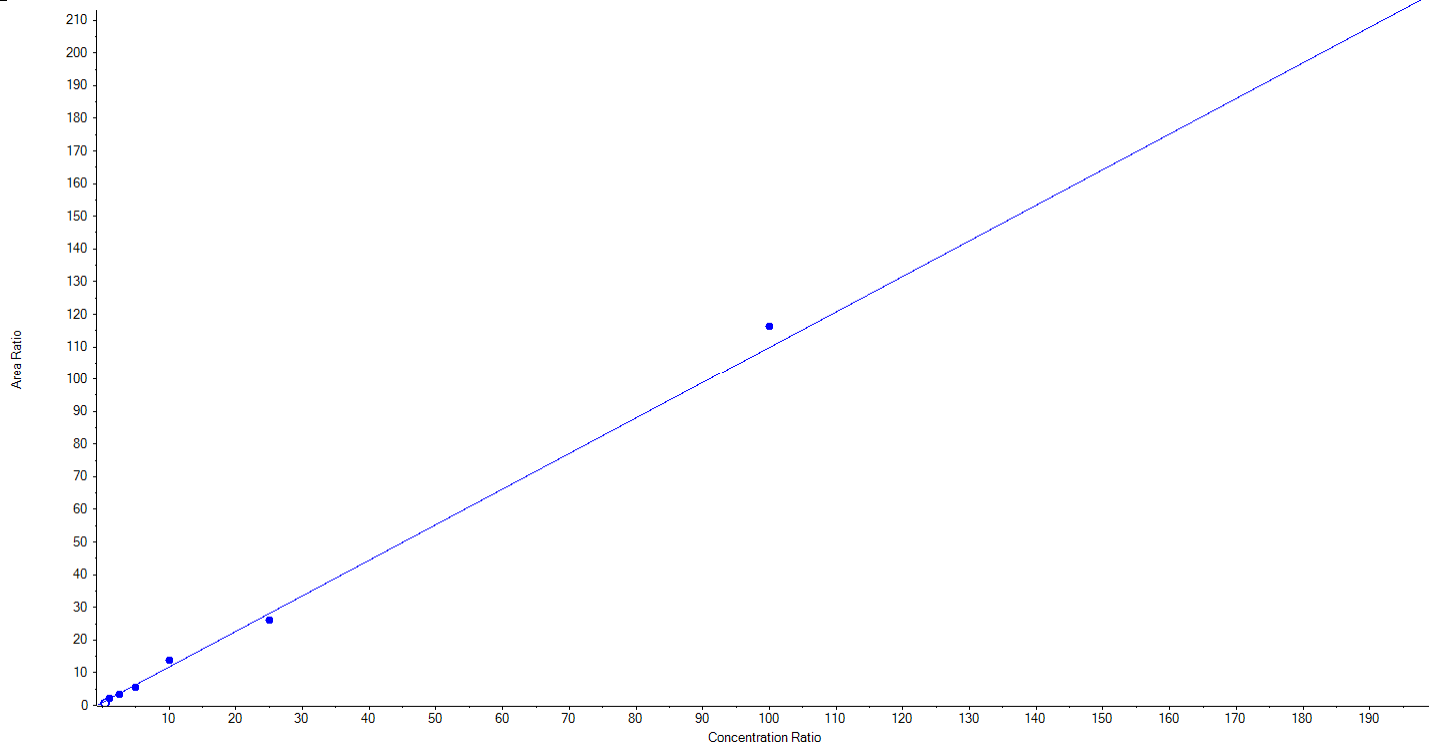


**Analyte Name:** PFBA  
**Internal Standard:** 13C4-PFBA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 1.08948x + 0.86240$  ( $r = 0.99816$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	105.189946	105.2	N/A	N/A
250.00000	1 of 1	232.211131	92.9	N/A	N/A
500.00000	1 of 1	429.521654	85.9	N/A	N/A
1000.00000	1 of 1	1201.587327	120.2	N/A	N/A
2500.00000	1 of 1	2312.794736	92.5	N/A	N/A
10000.00000	1 of 1	10601.454656	106.0	N/A	N/A
20000.00000	1 of 1	19467.240551	97.3	N/A	N/A

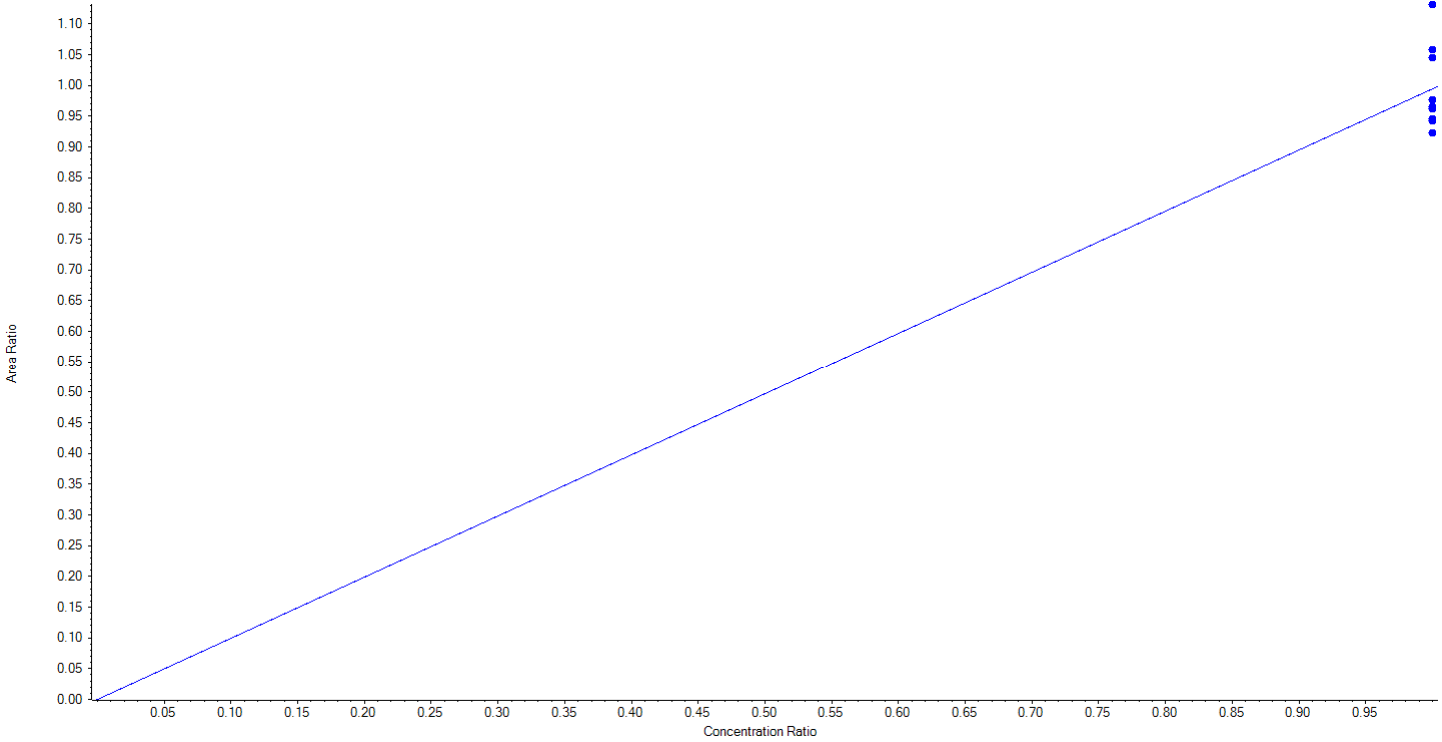


**Analyte Name:** 13C2-PFDoA  
**Internal Standard:** 13C2-PFDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.99446 x$  (std. dev. = 0.06860) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	6.90	6.9

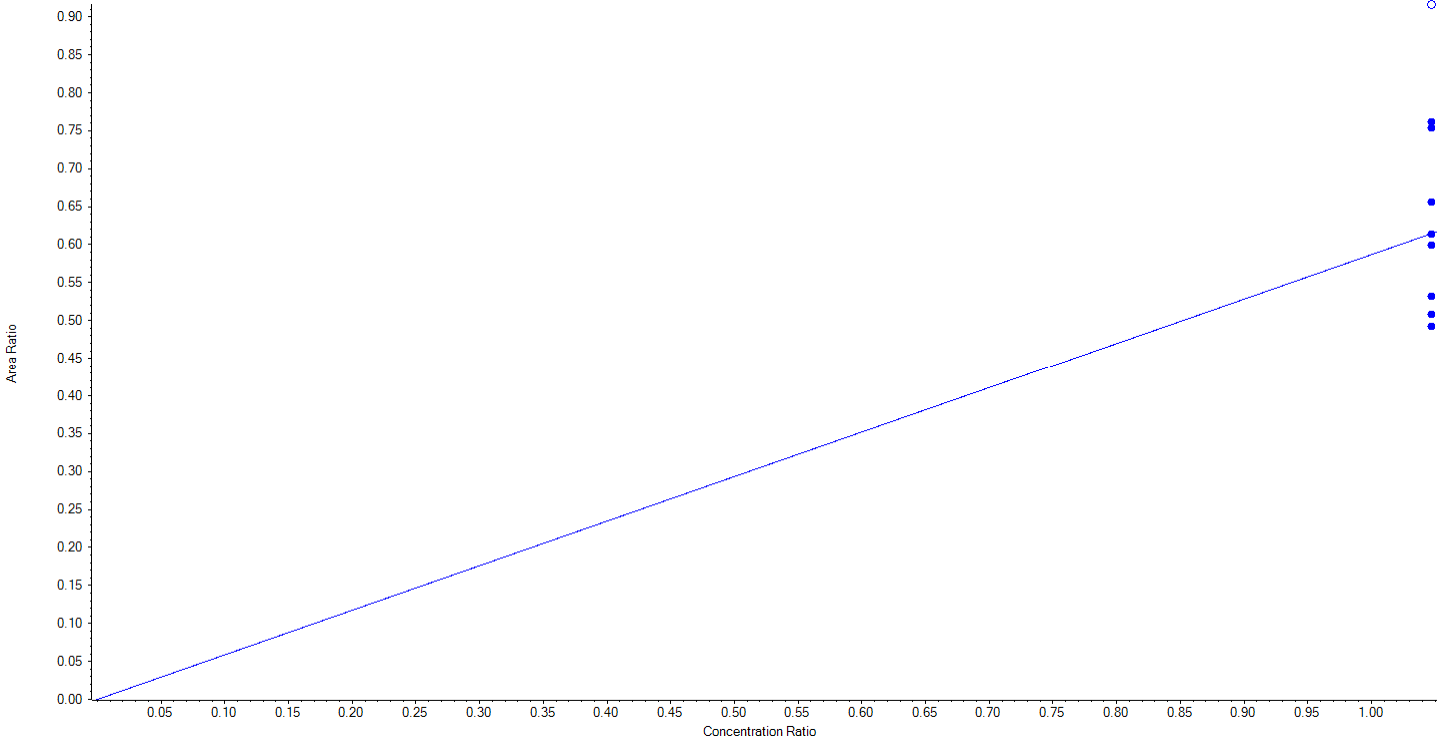


**Analyte Name:** d3-MeFOSAA  
**Internal Standard:** 13C4-PFOS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.58682 x$  (std. dev. = 0.09933) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	8 of 9	100.000000	100.0	16.93	16.9



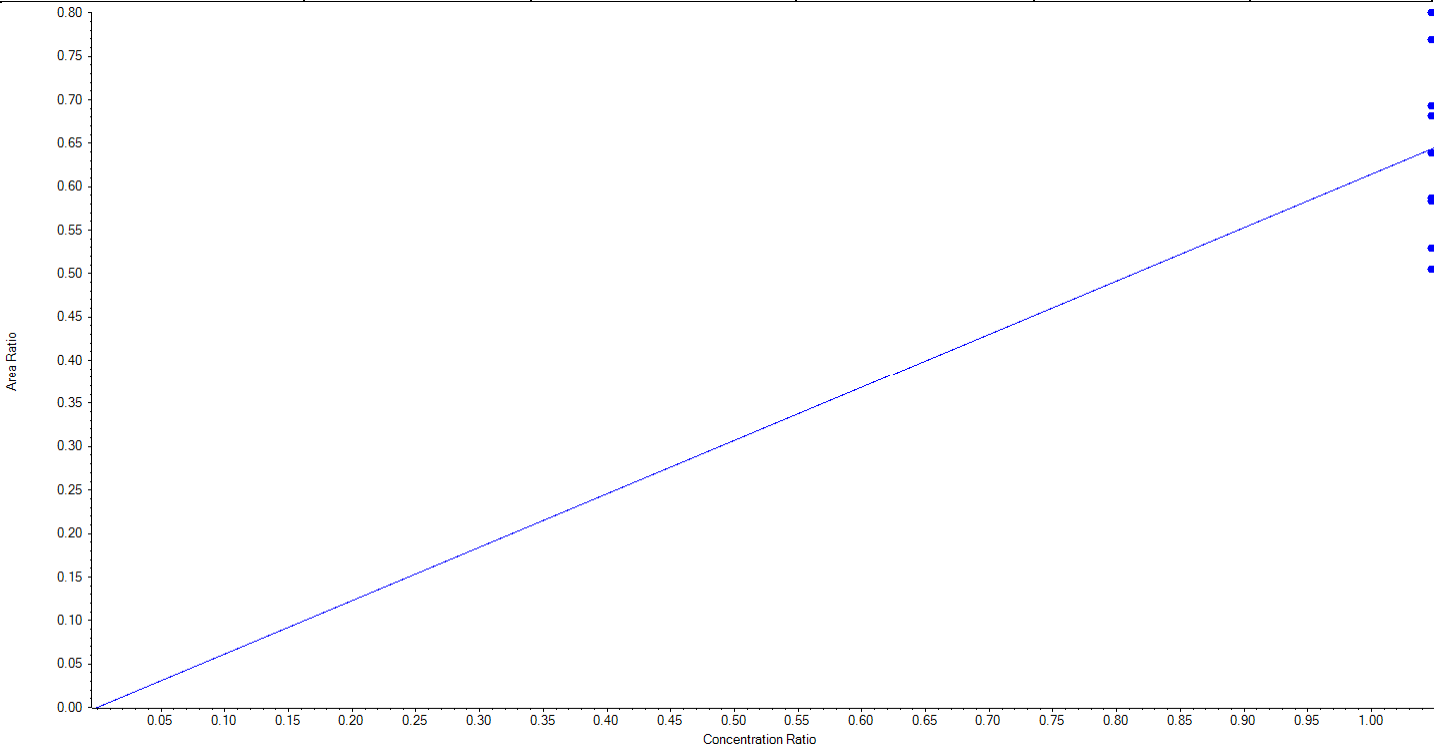


**Analyte Name:** d5-EtFOSAA  
**Internal Standard:** 13C4-PFOS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.61430 x$  (std. dev. = 0.09733) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	15.84	15.8

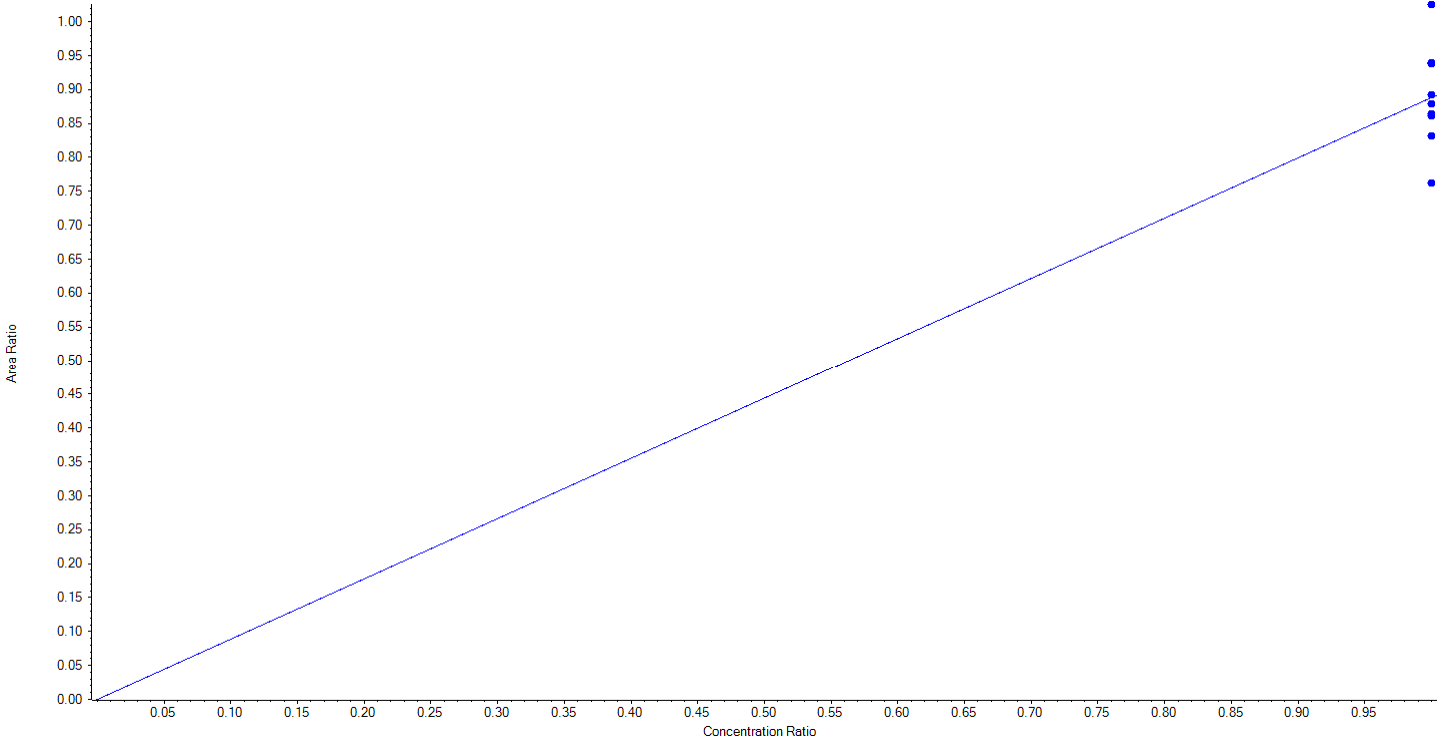


**Analyte Name:** 13C5-PFHxA  
**Internal Standard:** 13C2-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.88819x$  (std. dev. = 0.07447) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	8.38	8.4

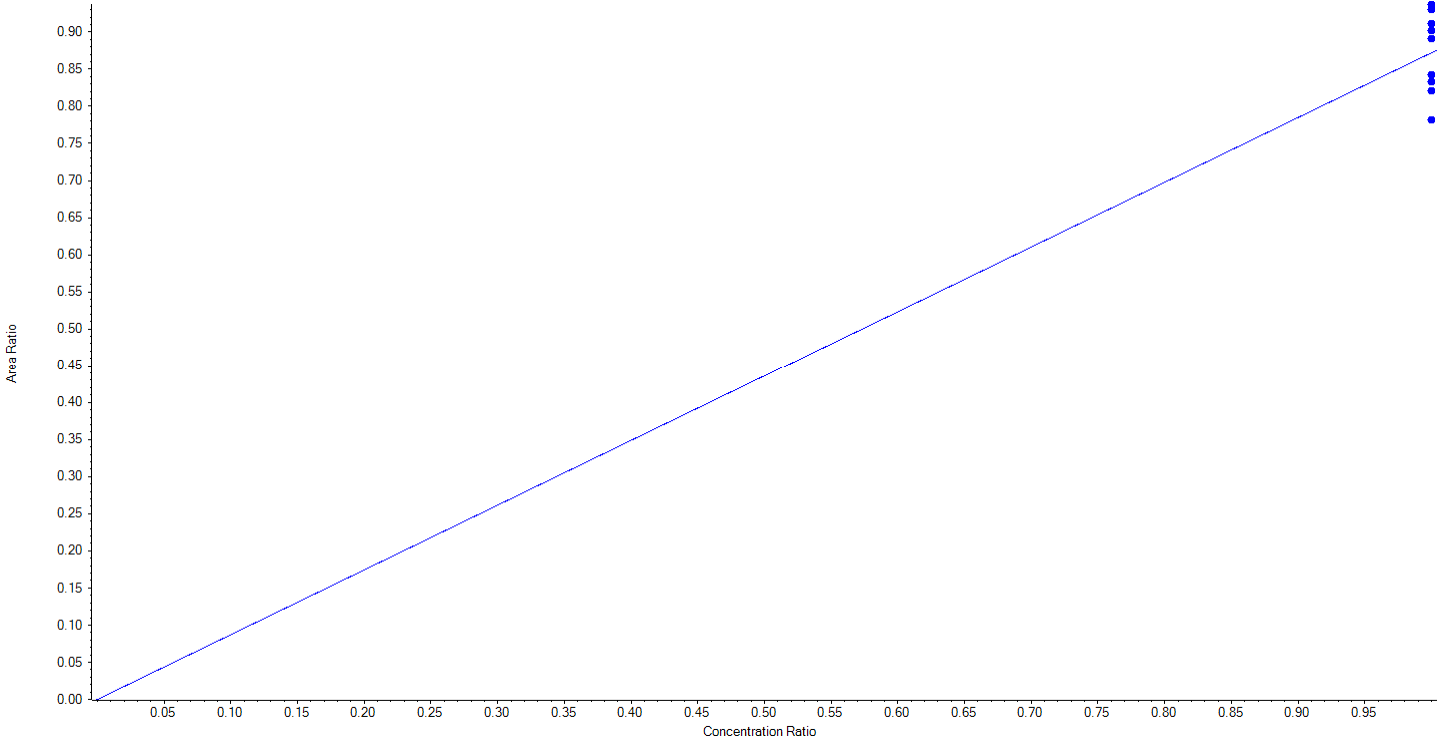


**Analyte Name:** 13C4-PFHpA  
**Internal Standard:** 13C2-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.87206 x$  (std. dev. = 0.05413) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	6.21	6.2

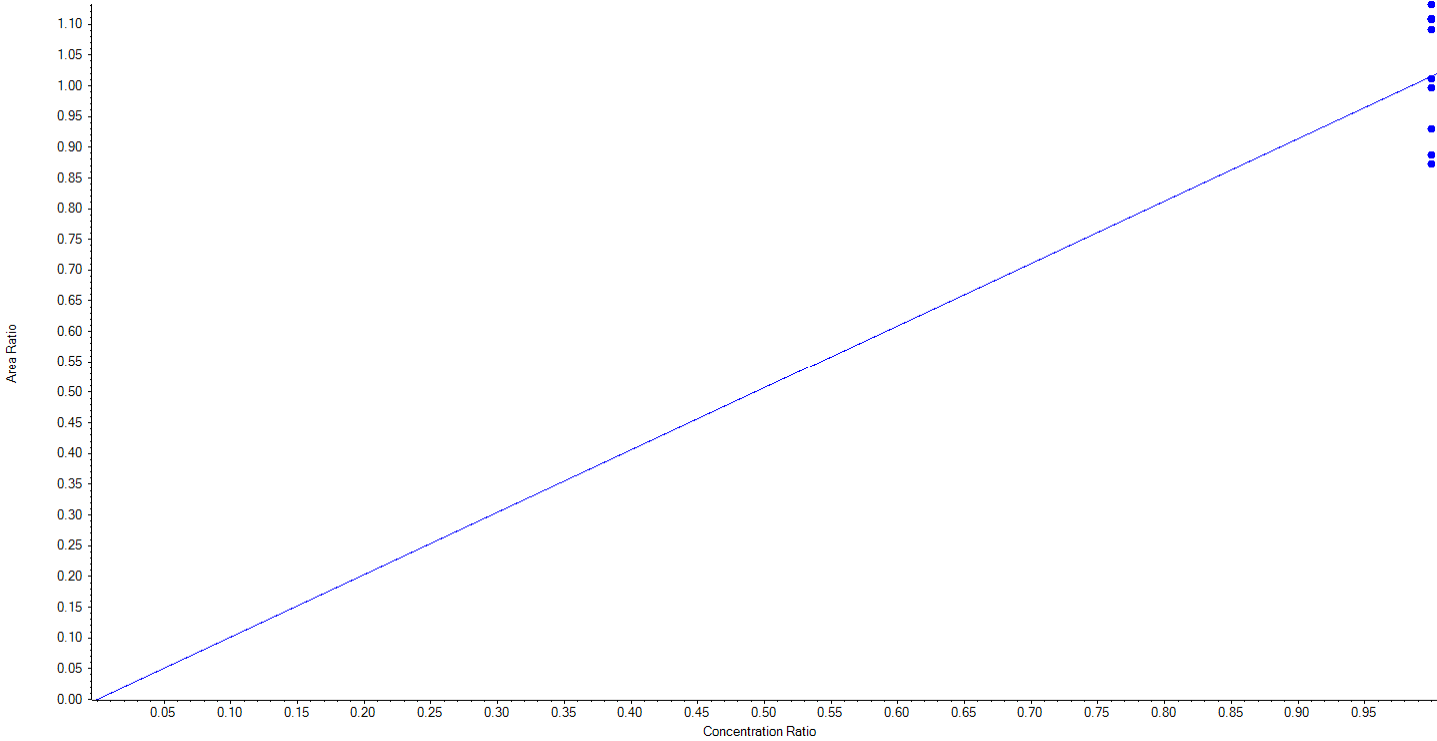


**Analyte Name:** 13C8-PFOA  
**Internal Standard:** 13C2-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 1.01525x$  (std. dev. = 0.10028) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	9.88	9.9

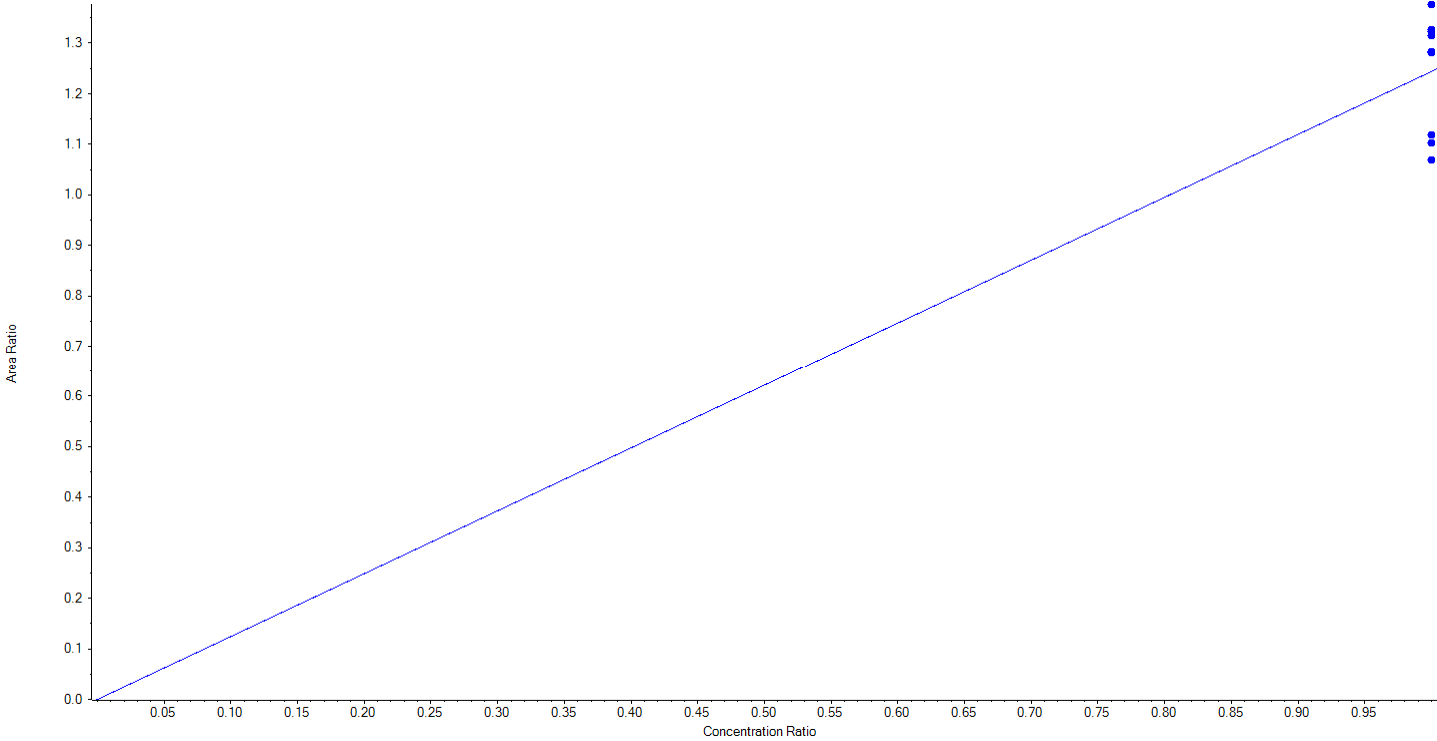


**Analyte Name:** 13C9-PFNA  
**Internal Standard:** 13C2-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 1.24383 x$  (std. dev. = 0.11437) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	9.20	9.2

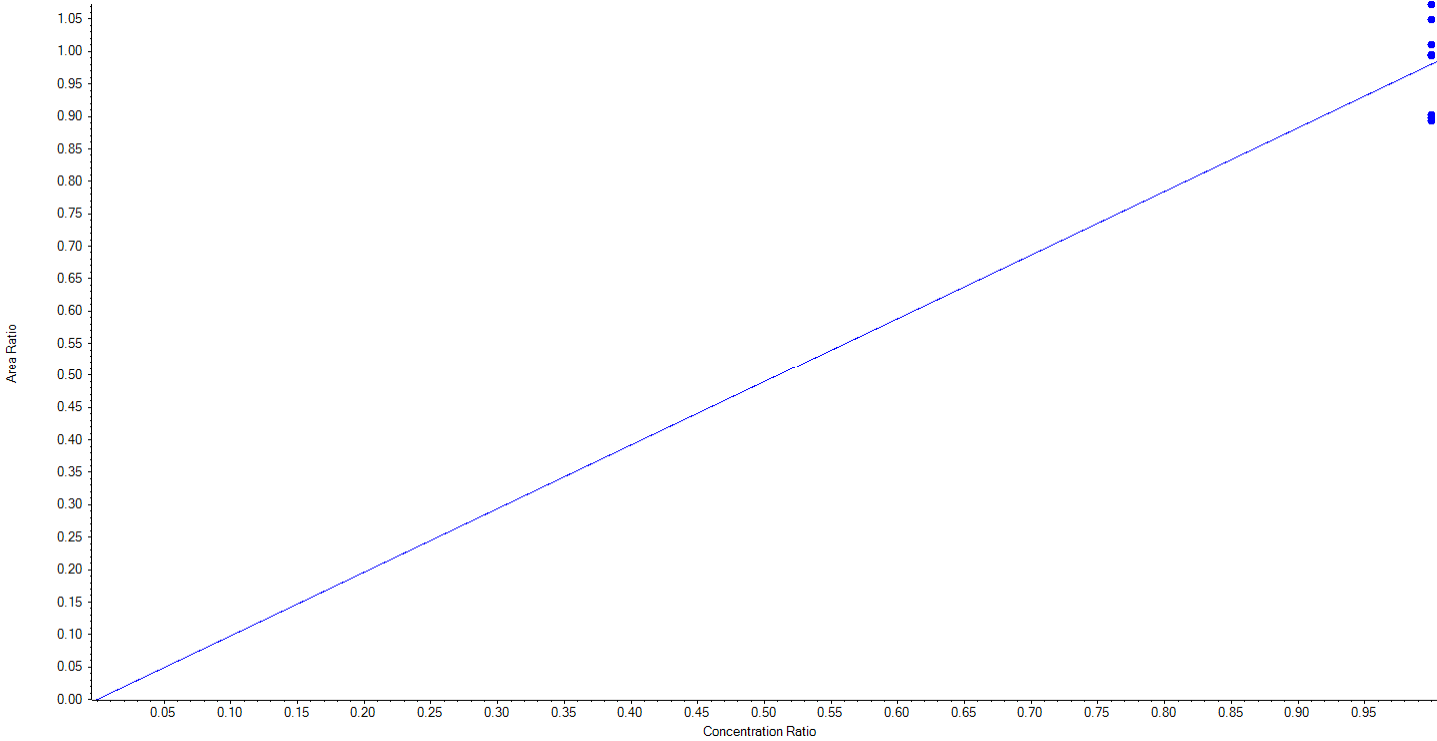


**Analyte Name:** 13C6-PFDA  
**Internal Standard:** 13C2-PFDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.98045x$  (std. dev. = 0.06704) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	6.84	6.8

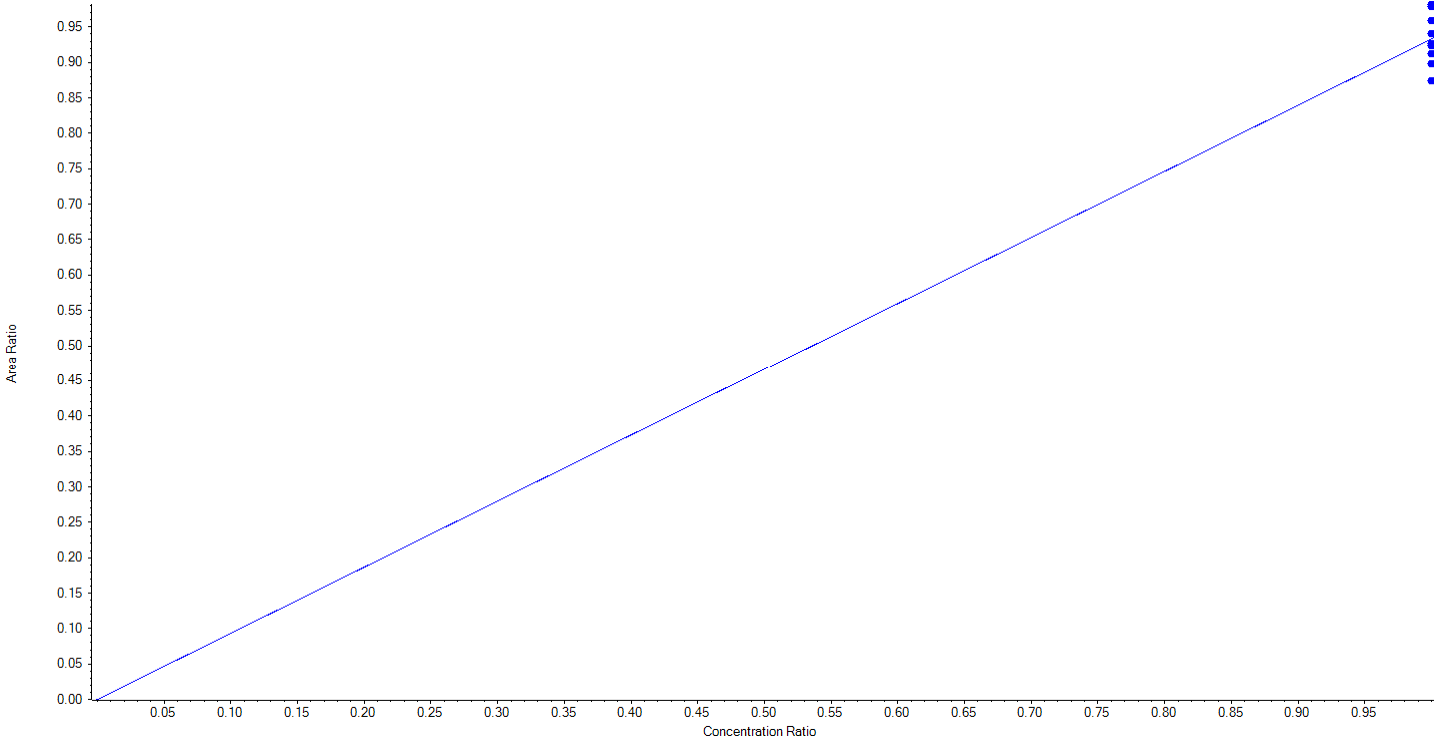


**Analyte Name:** 13C7-PFUnA  
**Internal Standard:** 13C2-PFDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.93299 x$  (std. dev. = 0.03604) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	3.86	3.9



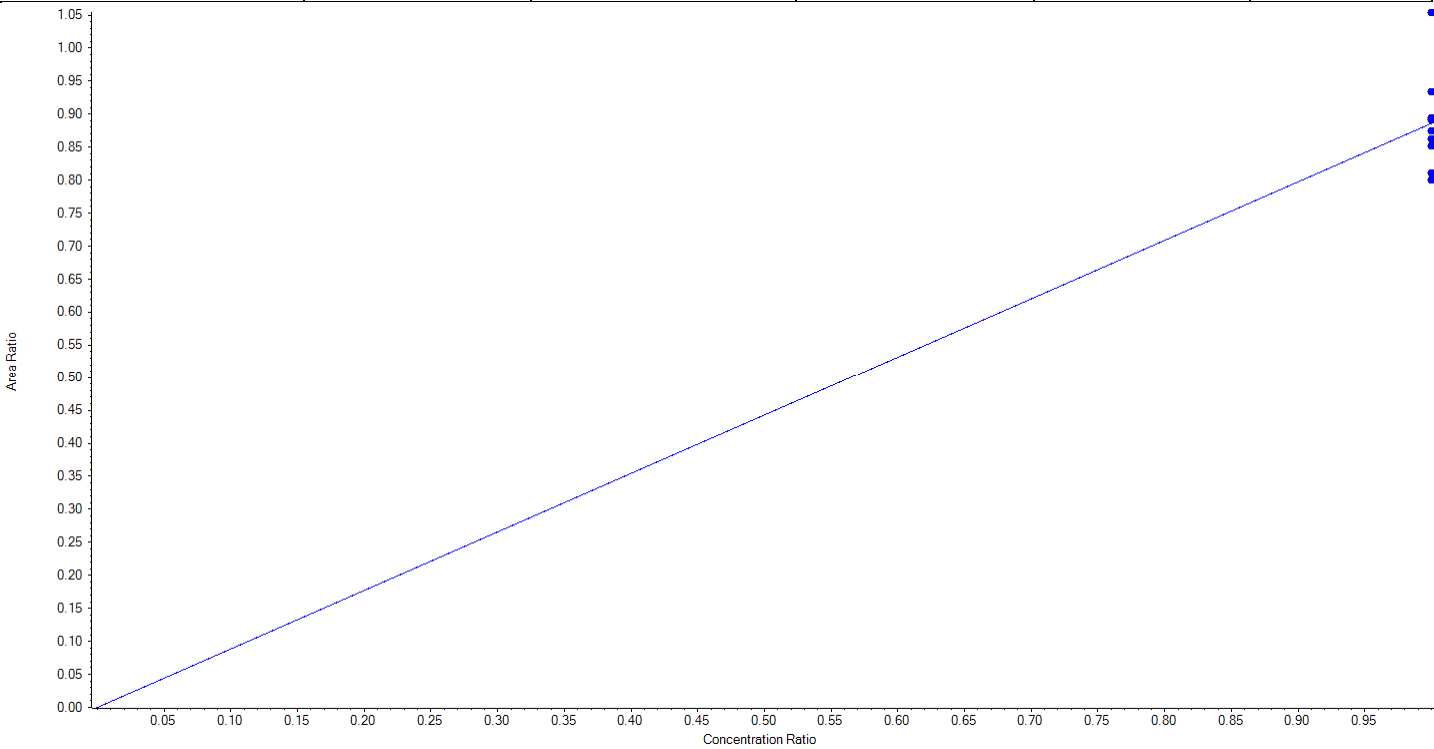


**Analyte Name:** 13C2-PFTeDA  
**Internal Standard:** 13C2-PFDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.88599x$  (std. dev. = 0.07540) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	8.51	8.5

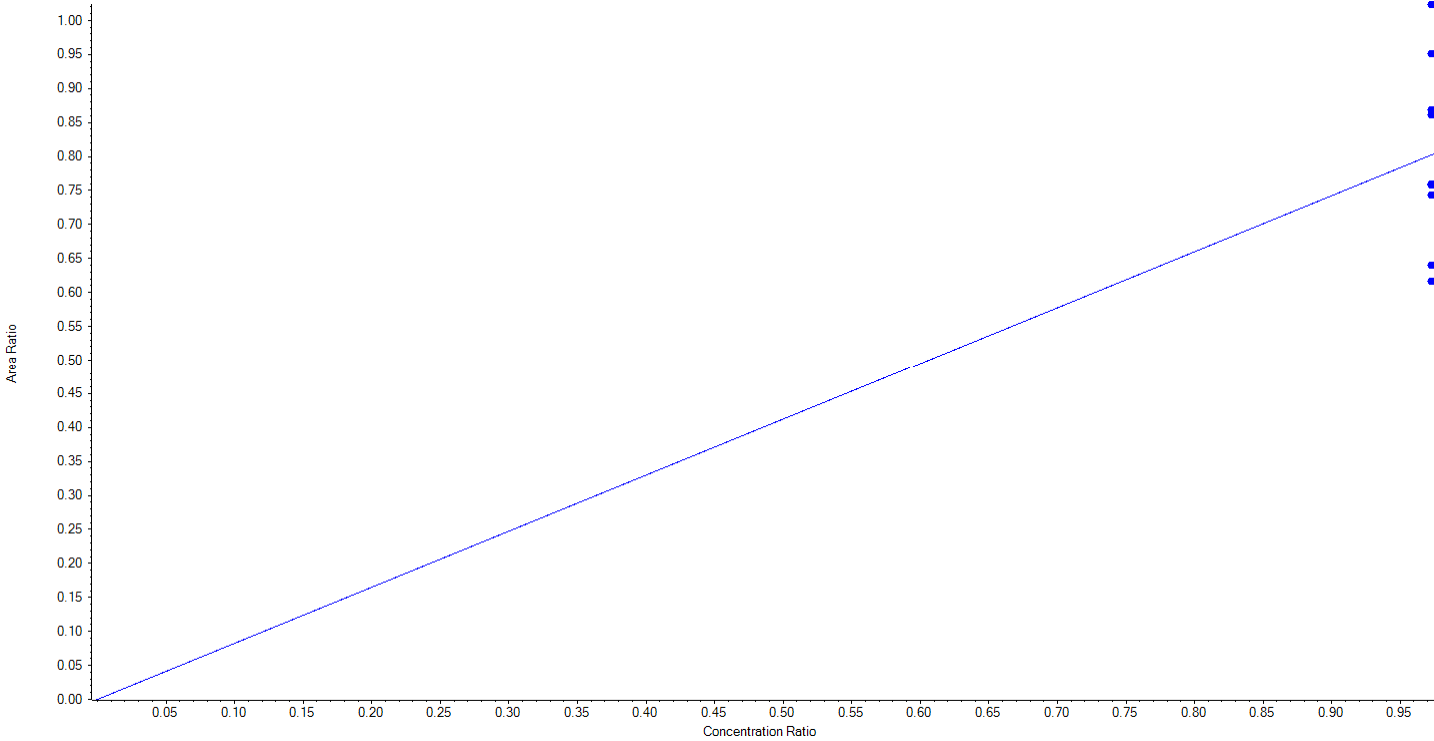


**Analyte Name:** 13C3-PFBS  
**Internal Standard:** 13C4-PFOS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.82476 x$  (std. dev. = 0.13926) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
92.90000	9 of 9	92.900000	100.0	15.69	16.9

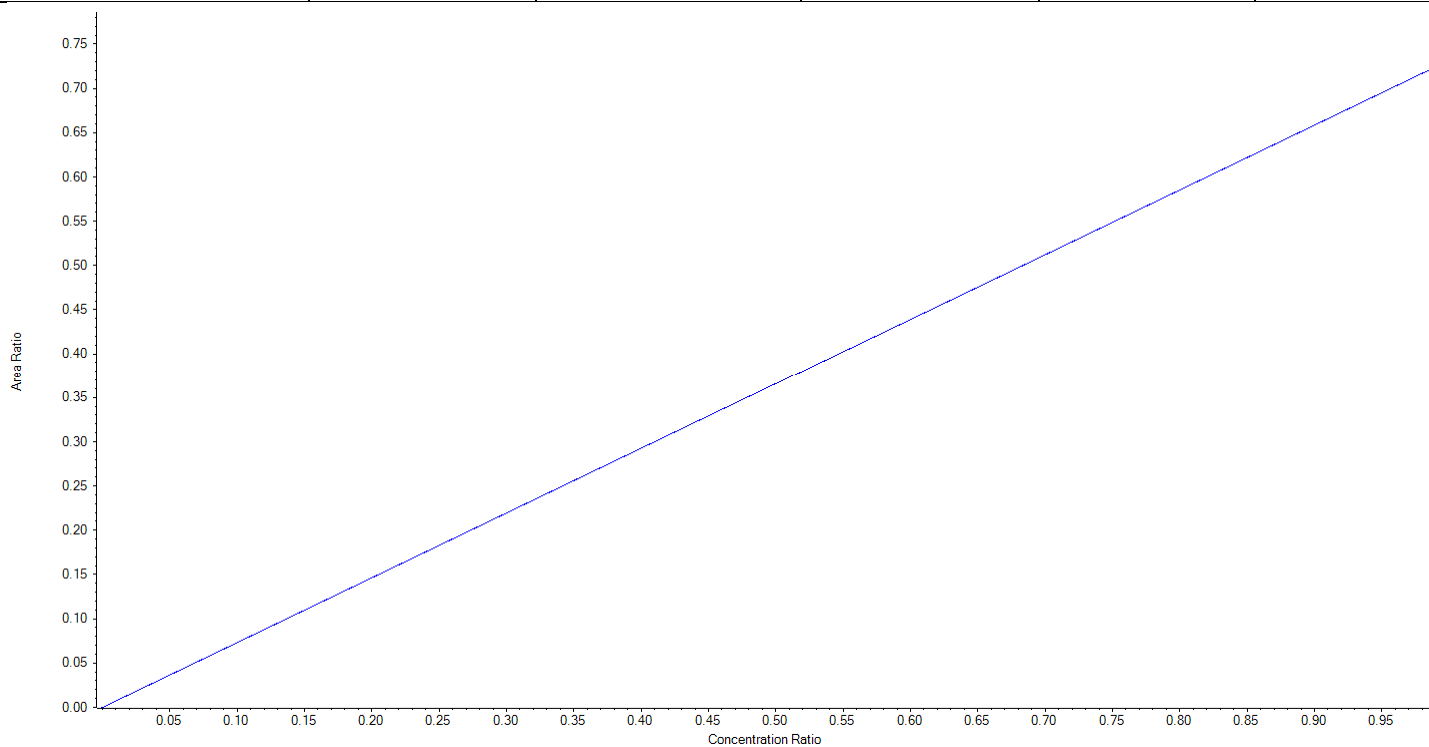


**Analyte Name:** 13C3-PFHxS  
**Internal Standard:** 13C4-PFOS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.73156 x$  (std. dev. = 0.05944) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
94.60000	9 of 9	94.600000	100.0	7.69	8.1

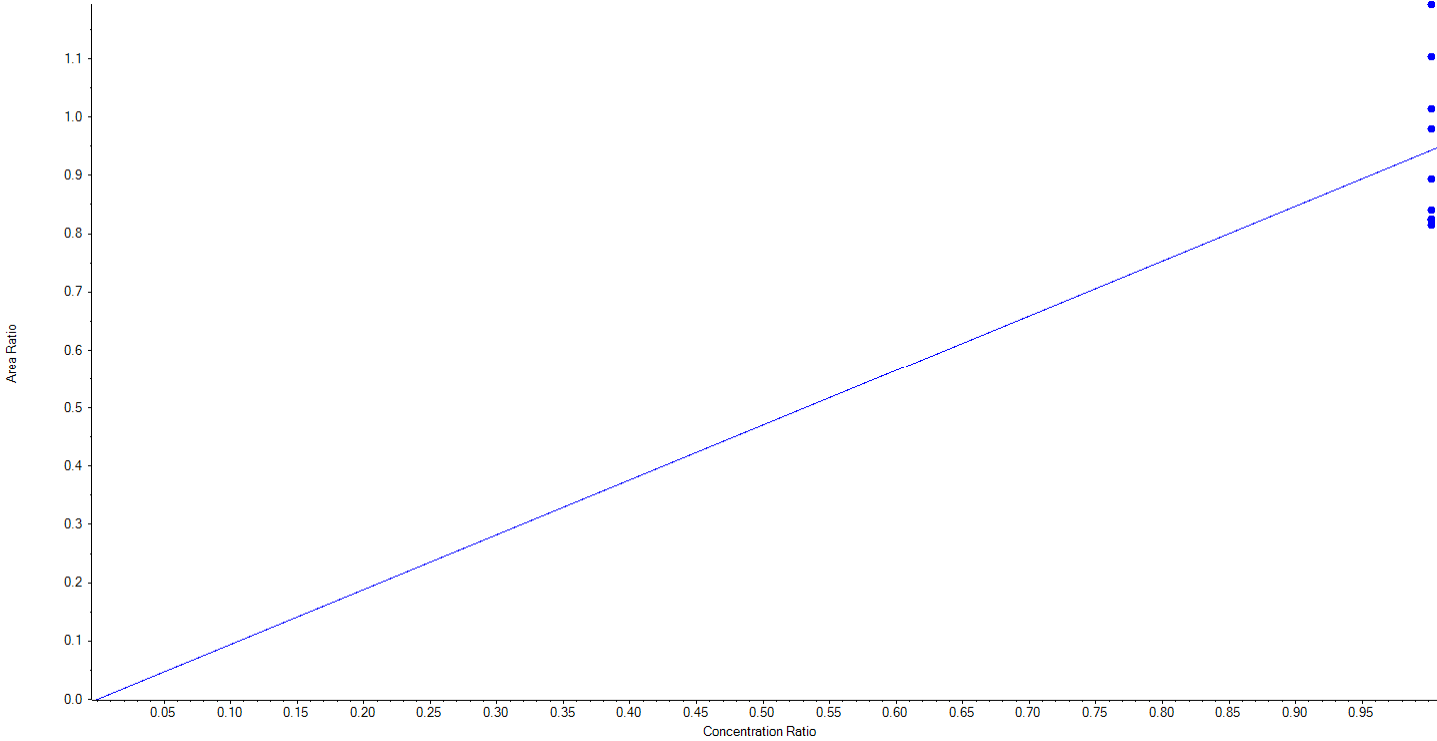


**Analyte Name:** 13C8-PFOS  
**Internal Standard:** 13C4-PFOS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.94122 x$  (std. dev. = 0.13742) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
95.70000	9 of 9	95.700000	100.0	13.97	14.6

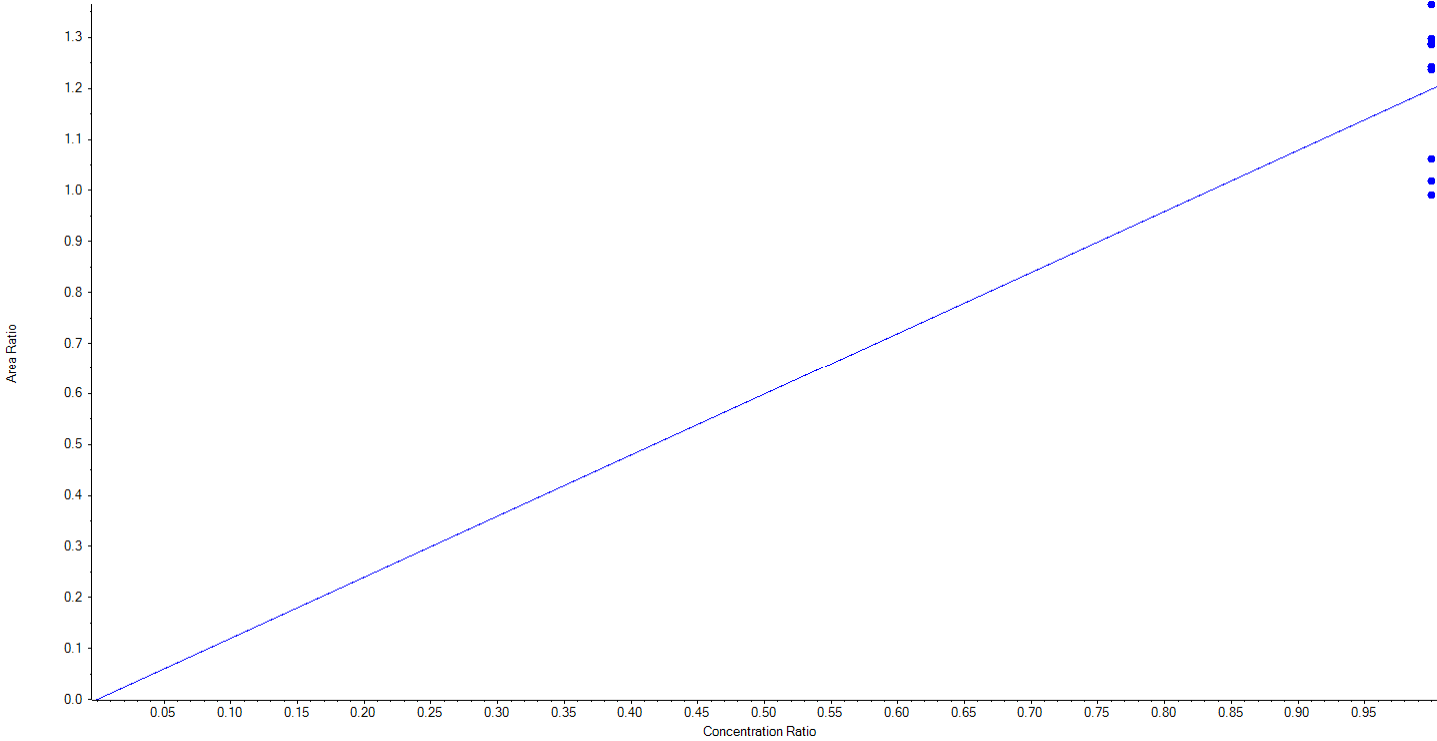


**Analyte Name:** 13C4-PFBA  
**Internal Standard:** 13C3-PFBA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_SIS
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 1.19862 x$  (std. dev. = 0.13725) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	11.45	11.5

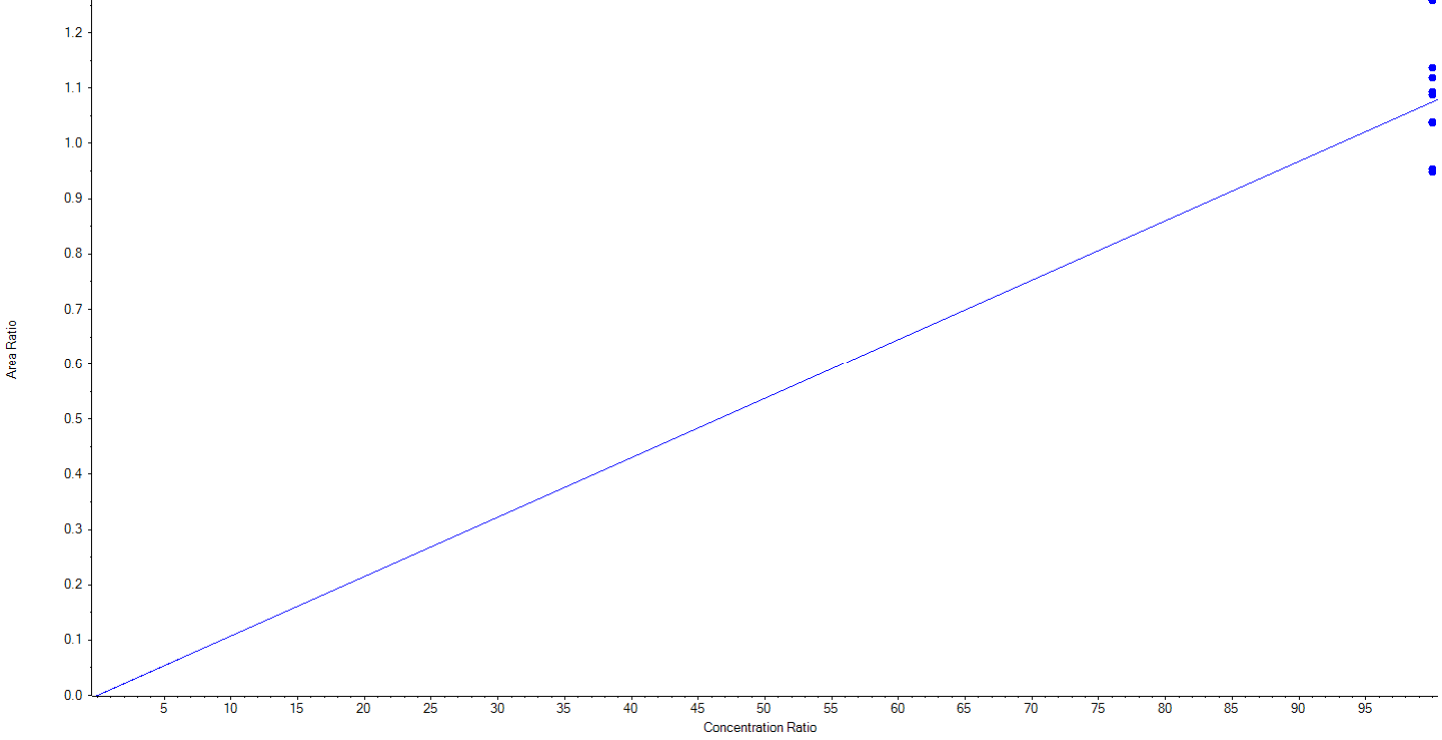


**Analyte Name:** 13C4-PFBA  
**Internal Standard:** 13C3-PFBA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0207_SIS_D
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.01075 x$  (std. dev. =  $9.56036e-4$ ) (weighting:  $1 / x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	8.89	8.9





It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

### 1.0 GENERAL PROJECT INFORMATION

**Project Title:** CTO-JM08 - Naval Construction Battalion Center (NCBC)  
**Project Number:** 100112541  
**Client:** Tetra Tech  
 661 Anderson Drive Foster Plaza 7  
 Pittsburgh, PA 15220  
 USA  
  
**Client Contact Information:** Greg Roof  
 NA  
 NA  
 NA  
 greg.roof@tetrattech.com  
  
**Effective Date of QAPP:** 3/21/2018  
**Version Number:** 100112541(L)-02  
**Project Manager:** Thorn, Jonathan  
**Laboratory Task Manager:** Thorn, Jonathan  
**Deliverable Due Date:** 4/10/2018

### 2.0 SCOPE OF WORK

**Overview:** Analysis of non-potable water samples collected at NCBC in Gulfport, Mississippi. All time should be charged to 100115738-JM08.  
**Matrix:** Water

### 2.1 TECHNICAL APPROACH

#### 2.1.1 Sample Receipt, Storage, and Handling

The list of samples for this project plan are presented in Attachment 1.

**Storage Directions:** Store samples refrigerated prior to extraction.  
**Sub\_Sampling:** None  
**Procedures:** NA  
**Contact:** NA  
**Comment:** NA  
**Archiving:** NA  
**Disposal:** NA





It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

### 2.1.2 Sample Preparation

NA

Samples Expected:	Samples Per Batch:	Batches Expected:
12	20	1

Batch quality control samples are defined in Table 1.

Target samples are presented in Attachment 1.

**Table 1: Quality Control Samples**

Type:	Description:	Count:	Rgt:	Reference:	Comment:
PB	Laboratory control reagent blank.	1 per batch	--	NA	
LCS	Laboratory Control Sample	1 per batch	No	NA	
MS	Spiked field sample for determining method accuracy in the presence of matrix.	1 per batch	--	NA	Sample for MS/MSD to be identified by PM
MSD	Spiked field sample for determining method accuracy and precision in the presence of matrix.	1 per batch	--	NA	Sample for MS/MSD to be identified by PM

### 2.1.3 Extraction/Preparation

#### 2.1.3.1 Extraction

SOP No.-Rev:	<b>5-370-05</b>
SOP Title:	<i>Extraction of Poly and Perfluoroalkyl Substances from Environmental Matrices</i>
Sample Size:	250 ml
SIS and LCS/MS Compounds:	Defined in Table 2.
Deviations:	None.
Comments:	FRB samples will only be extracted and analyzed if hits in the associated samples are greater than 1/3 the LOQ (5.0 ng/L).

**Table 2: SIS and LCS/MS Spiking Level**

Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)	JR05 SIS	~ 0.100 ng	50 uL	NA



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## WORK/QUALITY ASSURANCE PROJECT PLAN

Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PFAS - DOD Second Source LCS/MS Solution	JP49 LCS/MS	~ 10.0 ng	200 uL	MS/MSD samples
PFAS - Second Source Low Level Fortification	JP88 LCS/MS	~ 2.50 ng	500 uL	LCS sample.

### 2.1.3.2 Cleanup

None.

RIS spiking levels are presented in Table 3.

Extract PIV (uL): 500

**Table 3: RIS Spiking Level**

Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PFAS - DoD Internal Standard Spiking Solution	JR08 RIS	~ 0.050 ng	25 uL	NA

### 2.1.4 Instrumental Analysis

The list of analytes along with data quality criteria are presented in Attachment 2.

- SOP\_No-Rev: **5-369-05**

SOP\_Title: *Analysis of Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS)*

Deviations: None

Comments: All criteria from DoD QSM 5.1 Table B-15 must be met

### 2.2. DELIVERABLES

<b>Deliverables Due:</b>	<u>4/10/2018</u>
<b>LIMS Reports:</b>	<i>Yes</i>
<b>Histograms:</b>	<i>No</i>
<b>Excel Tables:</b>	<i>Yes</i>
<b>EICs:</b>	<i>No</i>
<b>Chromatograms:</b>	<i>No</i>



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

**EDDs:** *Yes*

**Comments:**

- Three week Turnaround Time
- Data tables must contain LOD/LOQ information.
- Case narrative must identify instrument used.
- Include sample calculation in final deliverable.
- Hard copy summary package, including case narrative, cross reference table of client to laboratory sample IDs, copy of COC, and all CLP-like data tables.
- Full L4 validation package per SAP and ADAPT EDD format.
- PDF of L4 and summary package will be provided (CD or DVD, two copies)
- ADAPT EDD format required - see SOW for details.

### 3.0 QUALITY

The Method Quality Objectives are defined in Attachment 3.

## 4.0 ORGANIZATION AND COMMUNICATION

### 4.1 ORGANIZATION

The project team is defined in Table 4. Supervisors may make substitutions with Project Manager concurrence.

**Table 4: Project Team and Roles**

Staff Member	Role	Comment
Jonathan R. Thorn	Project Manager	NA
Stephanie A. Schultz	Sample Preparation	NA
Denise M. Schumitz	LC-MS/MS Analysis	NA
Matt D. Schumitz	Sample Custody	NA
Carla R. Devine	Quality Control Officer	Zach Willenberg will perform QA review after data has been finalized by QC Chemist and deliverables have been made.

### 4.2 COMMUNICATION

A kick-off meeting will be held to discuss project scope and goals.

## 5.0 SCHEDULE

The project schedule is presented in Table 5.



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

**Table 5. Schedule of Laboratory Activities**

<b>Activity:</b>	<b>Start Date:</b>	<b>End Date:</b>	<b>TAT (days):</b>	<b>Comment:</b>
Sample Receipt	NA	NA	0	NA
Sample Preparation	NA	NA	0	NA
Instrument Analysis	NA	NA	0	NA
Quality Control Review	NA	NA	0	NA

### 6.0 BUDGET

The labor budget for the analytical task is presented in Table 6.

**Table 6. Labor Budget (Laboratory Analytical Task)**

<b>Labor Activity:</b>	<b>Hours/ Batch:</b>	<b>Batches:</b>	<b>Total Hours:</b>	<b>Comment:</b>
Sample Receipt	1	1	1	NA
Sample Preparation	4	1	4	NA
Instrument Analysis	4	1	4	NA
Quality Control Review	2	1	2	0.5 hours for QA review.

### 7.0 STAFF DEVELOPMENT

None anticipated



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

### Attachment 1: Target Samples

**Shipment:** SHP-180320-02  
**Status:** Pending  
**Description:** 112G08005-JM08  
**Range:** J5386-J5397  
**Comment:** NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	J5386	06GW09FRB0318	03/17/2018 9:05 am	QC	R0118 (NA)			
2	J5387	06GW08031718	03/17/2018 9:25 am	GW	R0118 (NA)			MSMSD
3	J5388	06GW09031718	03/17/2018 9:23 am	GW	R0118 (NA)			
4	J5389	06GW04031718	03/17/2018 9:30 am	GW	R0118 (NA)			
5	J5390	06GW16031718	03/17/2018 10:23 am	GW	R0118 (NA)			
6	J5391	06GW15FRB0318	03/17/2018 10:25 am	QC	R0118 (NA)			
7	J5392	06GW15031718	03/17/2018 10:30 am	GW	R0118 (NA)			
8	J5393	06GW14FRB0318	03/17/2018 10:35 am	QC	R0118 (NA)			
9	J5394	06GW14031718	03/17/2018 10:40 am	GW	R0118 (NA)			
10	J5395	06GW06031718	03/17/2018 11:25 am	GW	R0118 (NA)			
11	J5396	06GW03031718	03/17/2018 12:05 pm	GW	R0118 (NA)			
12	J5397	06FDGW0318	03/17/2018 12:00 am	GW	R0118 (NA)			



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

## Attachment 2: Test Codes

<b>Project Test Code Name:</b>	Master_369
<b>SOP Reference:</b>	5-369 - Analysis of Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS)
<b>Description:</b>	PFAS by DoD QSM 5.1 Table B-15
<b>Matrix:</b>	L - Liquid Samples, like water or sea water, prepared and analyzed under the same class of detection limits.
<b>Detection Limit Study:</b>	5-369
<b>Instrument:</b>	LC-MS/MS
<b>MQO Criteria</b>	Universal_LC
<b>Standard Report:</b>	Standard Result Report

Method Specific Reporting		Holding Times (days)	Data Flags
<b>Result Units:</b>	ng/L	<b>Unit Conversion:</b> (none)	<b>Sample:</b> 14 <b>DL_Flag:</b> U
<b>Weight Basis:</b>	LIQUID	<b>Result Format:</b> Fixed Digits	<b>Frozen:</b> 40 <b>RL_Flag:</b> J
<b>Standard Basis:</b>	SIS	<b># of Figures/Digits:</b> 2	<b>Extract:</b> 28 <b>PB_Flag:</b> B
<b>Oil Weight Basis:</b>	No	<b>Oil Weight Source:</b> Oil Weight	<b>DIL_Flag:</b> D
<b>U-Value Substitution:</b>	ND=MDL	<b>Histograms:</b> No	<b>HT_Flag:</b> T
<b>ECD_Reporting:</b>	No		

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
1	Perfluoro-n-butanoic Acid	PFBA	T		Perfluoro-n-[1,2,3,4-13C4]butanoic acid	No	No
2	Perfluoro-n-hexanoic acid	PFHxA	T		Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	No	No
3	Perfluoro-n-heptanoic Acid	PFHpA	T		Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	No	No
4	Perfluoro-n-octanoic Acid	PFOA	T		Perfluoro-n-[13C8]octanoic acid	No	No
5	Perfluorononanoic Acid	PFNA	T		Perfluoro-n-[13C9]nonanoic acid	No	No
6	Perfluoro-n-decanoic Acid	PFDA	T		Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	No	No
7	Perfluoro-n-undecanoic acid	PFUnA	T		Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	No	No
8	Perfluoro-n-dodecanoic acid	PFDoA	T		Perfluoro-n-[1,2-13C2]dodecanoic acid	No	No
9	Perfluoro-n-tridecanoic acid	PFTTrDA	T		Perfluoro-n-[1,2-13C2]tridecanoic acid	No	No
10	Perfluoro-n-tetradecanoic acid	PFTeDA	T		Perfluoro-n-[1,2-13C2]tetradecanoic acid	No	No
11	N-methylperfluoro-1-octanesulfonamidoacetic acid	NMeFOSAA	T		N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	No	No



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

## Attachment 2: Test Codes

Project Test Code Name: Master\_369

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
12	N-ethylperfluoro-octanesulfonamidoacetic acid	NEtFOSAA	T		N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	No	No
13	Perfluoro-1-butanefulfonic Acid	PFBS	T		Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	No	No
14	Perfluoro-1-hexanesulfonic Acid	PFHxS	T		Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	No	No
15	Perfluoro-1-octanesulphonic Acid	PFOS	T		Sodium perfluoro-1-[13C8]octanesulfonate	No	No
1	Perfluoro-n-[1,2,3,4-13C4]butanoic acid	13C4-PFBA	SIS	Perfluoro-n-[2,3,4-13C3]butanoic Acid		No	No
2	Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	13C5-PFHxA	SIS	Perfluoro-n-[1,2-13C2]octanoic acid		No	No
3	Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	13C4-PFHpA	SIS	Perfluoro-n-[1,2-13C2]octanoic acid		No	No
4	Perfluoro-n-[13C8]octanoic acid	13C8-PFOA	SIS	Perfluoro-n-[1,2-13C2]octanoic acid		No	No
5	Perfluoro-n-[13C9]nonanoic acid	13C9-PFNA	SIS	Perfluoro-n-[1,2-13C2]octanoic acid		No	No
6	Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	13C6-PFDA	SIS	Perfluoro-n-[1,2-13C2]decanoic acid		No	No
7	Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	13C7-PFUnA	SIS	Perfluoro-n-[1,2-13C2]decanoic acid		No	No
8	Perfluoro-n-[1,2-13C2]dodecanoic acid	13C2-PFDoA	SIS	Perfluoro-n-[1,2-13C2]decanoic acid		No	No
9	Perfluoro-n-[1,2-13C2]tetradecanoic acid	13C2-PFTeDA	SIS	Perfluoro-n-[1,2-13C2]decanoic acid		No	No
10	N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	d3-MeFOSAA	SIS	Perfluoro-1-[1,2,3,4-13C4]octanesulfonate		No	No
11	N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	d5-EtFOSAA	SIS	Perfluoro-1-[1,2,3,4-13C4]octanesulfonate		No	No
12	Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	13C3-PFBS	SIS	Perfluoro-1-[1,2,3,4-13C4]octanesulfonate		No	No
13	Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	13C3-PFHxS	SIS	Perfluoro-1-[1,2,3,4-13C4]octanesulfonate		No	No
14	Sodium perfluoro-1-[13C8]octanesulfonate	13C8-PFOS	SIS	Perfluoro-1-[1,2,3,4-13C4]octanesulfonate		No	No
<b>Total Analytes:</b>		29					

## Subtract Peaks:

None

## Sum Peaks:

None





It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

### Attachment 2: Test Codes

**Project Test Code Name:** Master\_369

**ICAL Acceptance Criteria:**

Curve Fit:	Limit Mean(%):	Mean Qual:	Limit Ind.:	Ind. Qual:	Min Points:	Points Qual:	Comments:
Linear	NA	NA	0.99	N	5	N	y = Bx + C
Quadratic	NA	NA	0.99	N	6	N	y = Ax <sup>2</sup> + Bx + C

**Continuing Calibration Verification Criteria:**

**CCV Name:** 5-369

Frequency Hrs:	Mean PD(%):	Individual PD(%):	RIS/SIS RT Window (min):	Area Limit Low(%):	Area Limit High(%):	Comment:
12 (N)	30 (N)	30 (N)	0.04 (N)	-50	100 (N)	NA

**Independent Calibration Verification:**

**ICC Name:** 5-369

Mean PD Limit(%):	Ind. PD Limit(%):	RIS/SIS Window Limit (Secs):	Area Limit High(%):	Area Limit Low(%):	Comment:
30 (N)	30 (N)	0.04 (N)	-50	100 (N)	NA

**Mass Discrimination Criteria:**

*None*

**Degradation Check Criteria:**

*None*



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

### Attachment 3: Method Quality Objectives

MQO Application	<i>Universal_LC</i>		
MQO:	Acceptance Criteria	Qual:	Corrective Action:
Procedural Blank	Samples must be greater than five times the blank concentration (>5xPB).	B	Review with Project Manager; re-analyze or justify results in project records.
PB Measurement Quality Objective	Organic results in the Procedural Blank are less than 1/2 times the LOQ (<1/2xLOQ)	N	Review with Project Manager; re-analyze or justify results in project records.
Laboratory Control Sample	Recovery values 70-130%.	N	Review with project manager; re-analyze or justify reporting the results in project records.
Matrix Spike / Matrix Spike Duplicate Recovery	Organics 70-130%. Analyte concentration in MS/MSD must be greater than five times reported background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Matrix Spike/Spike Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Analyte concentration in MS/MSD must be greater than five times reported background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Standard Reference Material Accuracy	Organics Percent Difference less than 30% from a range of certified values on average. Analyte concentration must be greater than five times the Method Detection Limit (>5xMDL).	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the MDL	n	
Analytical Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Analyte concentration must be > 5x MDL.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Original is less than 5 times the MDL	n	



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## WORK/QUALITY ASSURANCE PROJECT PLAN

### Attachment 3: Method Quality Objectives

<b>MQO Application</b>	<i>Universal_LC</i>		
<b>MQO:</b>	<b>Acceptance Criteria</b>	<b>Qual:</b>	<b>Corrective Action:</b>
Analytical Triplicate Precision	Organics results less than 30% Relative Standard Deviation (RSD). Analyte concentration must be > 5x MDL.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Original is less than 5 times the MDL	n	
Surrogate Compound Recovery	Recovery results between 50% and 150%.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
Control Oil	RPD < 30% for at least 90% of analytes	N	Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
Instrument Calibration	5-369-5: R-squared greater than or equal to 0.990		Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
Independent Calibration Check Solution	5-369-5: Individual PD less than or equal to 30%. Mean Percent Difference less than or equal to 30%.	N	Review with Project Manager; re-analyze or justify in project records.
Continuing Calibration Verification	5-369-5: Individual PD less than or equal to 30%. Mean Percent Difference less than or equal to 30%.	N	Review with Project Manager; re-analyze or justify in project records.



**It can be done**

**BATTELLE - NORWELL OPERATIONS  
SAMPLE PREPARATION RECORDS**

<b><u>Project Title(s)</u></b>	<b><u>Project No.(s)</u></b>
PFAS Analytical work	100112541
<b>18-0207</b>	
<b>CTO-JM08 - Naval Construction Batallion Center (NCBC)</b>	
<b>GW</b>	
SOP Numbers (see workplan for modifications)	
ExtractionSOP No.	5-370

<b>This Batch Contains The Following Samples:</b>		
CQ320PB-FS	J5389-FS	J5397-FS
CQ321LCS-FS	J5390-FS	
J5387-FS	J5392-FS	
J5387MS-FS	J5394-FS	
J5387MSD-FS	J5395-FS	
J5388-FS	J5396-FS	

Laboratory Preparation Records  
COMPLETE AND VALIDATED

Prep Task Leader: Stephanie Schultz

Approved By:	Date	Initials
Denise Schumitz	03/30/2018	DMS



It can be done

## BATTELLE - NORWELL OPERATIONS SAMPLE IDENTIFICATION PAGE

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

100112541

**18-0207****CTO-JM08 - Naval Construction Battalion Center (NCBC)****GW**

<b>Sample ID</b>	<b>Description</b>
CQ320PB-FS	Procedural Blank
CQ321LCS-FS	Laboratory Control Sample
J5387-FS	06GW08031718
J5387MS-FS	Matrix Spike of 06GW08031718
J5387MSD-FS	Matrix Spike Duplicate of 06GW08031718
J5388-FS	06GW09031718
J5389-FS	06GW04031718
J5390-FS	06GW16031718
J5392-FS	06GW15031718
J5394-FS	06GW14031718
J5395-FS	06GW06031718
J5396-FS	06GW03031718
J5397-FS	06FDGW0318

Samples Assigned By:

Stephanie Schultz

Date :

March 21, 2018

Comments:



It can be done

**BATTELLE - NORWELL OPERATIONS  
SAMPLE CUSTODY LOG**

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

100112541

**18-0207**

**CTO-JM08 - Naval Construction Batallion Center (NCBC)**

**GW**

<b>Requested On/By:</b> 03/22/2018 SAS	<b>Purpose:</b> Sample Preparation
<b>Relinquished On/By:</b> 03/22/2018 MDS	<b>Last Activity:</b> Transfer
<b>Accepted On/By:</b> 03/22/2018 SAS <b>Stored In Facility:</b> Sample Preparation <b>Stored Until:</b> 03/22/2018 <b>Stored Comment:</b> NA	<b>Returned On/To:</b> <b>Returned To Facility:</b> <b>Returned Comment:</b> NA

No.	BDO-ID:	Ctrs	*	Condition:	Custody Comment:
1	J5387	1	C	Consumed	NA
2	J5388	1	C	Consumed	NA
3	J5389	1	C	Consumed	NA
4	J5390	1	C	Consumed	NA
5	J5392	1	C	Consumed	NA
6	J5394	1	C	Consumed	NA
7	J5395	1	C	Consumed	NA
8	J5396	1	C	Consumed	NA
9	J5397	1	C	Consumed	NA

**Total Samples** 9 \* "C" = Consumed Container



It can be done

## BATTELLE - NORWELL OPERATIONS LIQUID SAMPLE ID FORM

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

100112541

**18-0207****CTO-JM08 - Naval Construction Battalion Center (NCBC)****GW**

Sample ID	Description	Volume (mL)	Bottles	*	Date Initials
CQ320PB-FS	Procedural Blank	250.0	NA	--	03/22/18 SAS
CQ321LCS-FS	Laboratory Control Sample	250.0	NA	--	03/22/18 SAS
J5387-FS	06GW08031718	265.0	1	C	03/23/18 SAS
J5387MS-FS	Matrix Spike	255.0	3	C	03/23/18 SAS
J5387MSD-FS	Matrix Spike Duplicate	260.0	5	C	03/23/18 SAS
J5388-FS	06GW09031718	270.0	1	C	03/23/18 SAS
J5389-FS	06GW04031718	275.0	1	C	03/23/18 SAS
J5390-FS	06GW16031718	265.0	1	C	03/23/18 SAS
J5392-FS	06GW15031718	265.0	1	C	03/23/18 SAS
J5394-FS	06GW14031718	280.0	1	C	03/23/18 SAS
J5395-FS	06GW06031718	270.0	1	C	03/23/18 SAS
J5396-FS	06GW03031718	280.0	1	C	03/23/18 SAS
J5397-FS	06FDGW0318	275.0	1	C	03/23/18 SAS

Comments:

Samples Assigned By

Stephanie Schultz

Date : March 21, 2018

\* - "C" = Sample is Consumed





It can be done

## BATTELLE - NORWELL OPERATIONS SURROGATE SPIKE FORM

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

100112541

**18-0207****CTO-JM08 - Naval Construction Battalion Center (NCBC)****GW**

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
CQ320PB-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
CQ321LCS-FS	JP88	LCS/MS	1	500	03/22/18 SAS	JCT	NA
CQ321LCS-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
J5387-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
J5387MS-FS	JP49	LCS/MS	1	200	03/22/18 SAS	JCT	NA
J5387MS-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
J5387MSD-FS	JP49	LCS/MS	1	200	03/22/18 SAS	JCT	NA
J5387MSD-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
J5388-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
J5389-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
J5390-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
J5392-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
J5394-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
J5395-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
J5396-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA
J5397-FS	JR05	SIS	1	50	03/22/18 SAS	JCT	NA

## Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
JP49	Pipette	A1050931B
JP88	Pipette	C0982448K
JR05	Pipette	D1075429B



It can be done

## BATTELLE - NORWELL OPERATIONS SAMPLE EXTRACTION FORM

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

100112541

**18-0207****CTO-JM08 - Naval Construction Battalion Center (NCBC)****GW**

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Conc. ID	Turbo °C	Turbo PSI	KD °C	Comment
CQ320PB-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
CQ321LCS-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5387-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5387MS-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5387MSD-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5388-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5389-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5390-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5392-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5394-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5395-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5396-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5397-FS	03/22/18 SAS	NA	NA	NA	NA	NA	NA	NA

**Solvents/Reagent Preparations:**

Name	ID	Expires	Lot No	Procedure	Comments
0.4% NH3 in Methanol	RP-180322-1	03/22/18	166750	Per 100 mL, dilute 3.5 mL NH3 to 100 mL in Methanol	
0.4% NH3 in Methanol	RP-180322-1	03/22/18	SHBG7156V	Per 100 mL, dilute 3.5 mL NH3 to 100 mL in Methanol	
Pre-packed SPE Column	RP-180322-4	03/22/18	003637254A	Pre-packed SPE Column	

**Solvents/Reagents:**



It can be done

## BATTELLE - NORWELL OPERATIONS INTERNAL STANDARD SPIKING FORM

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

100112541

**18-0207****CTO-JM08 - Naval Construction Battalion Center (NCBC)****GW****(N/A Fraction)**

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution*	Date Spiked/ Spiked By	Witn'd By
CQ320PB-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
CQ321LCS-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
J5387-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
J5387-FS-D(5)	476	24	JR08	25	1	500	50.000	03/29/18 SAS	JCT
J5387MS-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
J5387MS-FS-D(5)	476	24	JR08	25	1	500	50.000	03/29/18 SAS	JCT
J5387MSD-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
J5387MSD-FS-D(5)	476	24	JR08	25	1	500	50.000	03/29/18 SAS	JCT
J5388-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
J5388-FS-D(5)	476	24	JR08	25	1	500	50.000	03/29/18 SAS	JCT
J5389-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
J5389-FS-D(5)	476	24	JR08	25	1	500	50.000	03/29/18 SAS	JCT
J5390-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
J5390-FS-D(5)	476	24	JR08	25	1	500	50.000	03/29/18 SAS	JCT
J5392-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
J5392-FS-D(5)	476	24	JR08	25	1	500	50.000	03/29/18 SAS	JCT
J5394-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
J5394-FS-D(5)	476	24	JR08	25	1	500	50.000	03/28/18 SAS	JCT
J5395-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG

\* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



It can be done

## BATTELLE - NORWELL OPERATIONS INTERNAL STANDARD SPIKING FORM

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

100112541

**18-0207****CTO-JM08 - Naval Construction Battalion Center (NCBC)****GW****(N/A Fraction)**

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution*	Date Spiked/ Spiked By	Witn'd By
J5395-FS-D(5)	476	24	JR08	25	1	500	50.000	03/29/18 SAS	JCT
J5396-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
J5396-FS-D(5)	476	24	JR08	25	1	500	50.000	03/29/18 SAS	JCT
J5397-FS(3)	475	25	JR08	25	1	500	2.000	03/26/18 SAS	SG
J5397-FS-D(5)	476	24	JR08	25	1	500	50.000	03/29/18 SAS	JCT

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
JR05	Pipette	C0200157B
JR05	Pipette	D1075429B
JR08	Pipette	C0200157B
JR08	Pipette	D1075429B

<b>Extract Id:</b>	<b>Comments:</b>
CQ320PB-FS	Samples reconstituted in 80/20 methanol/milli-q water (RP-180323-2)

\* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



It can be done

## BATTELLE - NORWELL OPERATIONS EXTRACT SPIKE FORM

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

100112541

**18-0207****CTO-JM08 - Naval Construction Battalion Center (NCBC)****GW**

Extract Id	DF	Std. ID	Type	Vial No.	Vol. Added (uL)	Conc (ug/mL)	Added (ng)	Date Spiked/ Spiked By	Witn'd By
J5387-FS-D(5)	50	JR05	SIS	1	24	0	0	03/29/18 SAS	JCT
J5387MS-FS-D(5)	50	JR05	SIS	1	24	0	0	03/29/18 SAS	JCT
J5387MSD-FS-D(5)	50	JR05	SIS	1	24	0	0	03/29/18 SAS	JCT
J5388-FS-D(5)	50	JR05	SIS	1	24	0	0	03/29/18 SAS	JCT
J5389-FS-D(5)	50	JR05	SIS	1	24	0	0	03/29/18 SAS	JCT
J5390-FS-D(5)	50	JR05	SIS	1	24	0	0	03/29/18 SAS	JCT
J5392-FS-D(5)	50	JR05	SIS	1	24	0	0	03/29/18 SAS	JCT
J5394-FS-D(5)	50	JR05	SIS	1	24	0	0	03/28/18 SAS	JCT
J5395-FS-D(5)	50	JR05	SIS	1	24	0	0	03/29/18 SAS	JCT
J5396-FS-D(5)	50	JR05	SIS	1	24	0	0	03/29/18 SAS	JCT
J5397-FS-D(5)	50	JR05	SIS	1	24	0	0	03/29/18 SAS	JCT

## Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
JR05	Pipette	C0200157B
JR05	Pipette	D1075429B
JR08	Pipette	C0200157B
JR08	Pipette	D1075429B



It can be done

## BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**

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**Project No.(s)**

100112541

**18-0207****CTO-JM08 - Naval Construction Batallion Center (NCBC)****GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
CQ320PB-FS	0	C	3/22/2018 1:19:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
CQ320PB-FS	2	--	3/22/2018 4:49:00 PM	CQ320PB-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
CQ320PB-FS	3	--	3/22/2018 4:49:00 PM	CQ320PB-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
CQ321LCS-FS	0	C	3/22/2018 1:19:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
CQ321LCS-FS	2	--	3/22/2018 4:49:00 PM	CQ321LCS-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
CQ321LCS-FS	3	--	3/22/2018 4:49:00 PM	CQ321LCS-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5387-FS	0	C	3/22/2018 1:19:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
J5387-FS	2	--	3/22/2018 4:49:00 PM	J5387-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5387-FS	3	C	3/22/2018 4:49:00 PM	J5387-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5387-FS	4	--	3/29/2018 4:24:00 PM	J5387-FS	3	500	480	1.042	2.083	03/29/18 SAS
J5387-FS-D	5	--	3/29/2018 4:24:00 PM	J5387-FS	3	500	20	25.000	50.000	03/29/18 SAS
J5387MS-FS	0	C	3/22/2018 1:19:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
J5387MS-FS	2	--	3/22/2018 4:49:00 PM	J5387MS-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5387MS-FS	3	C	3/22/2018 4:49:00 PM	J5387MS-FS	0	10000	5000	2.000	2.000	03/22/18 SAS

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] \* [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] \* Prior Dilution Factor

\* - "C" = Extract is Consumed



It can be done

## BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

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**18-0207****CTO-JM08 - Naval Construction Batallion Center (NCBC)****GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J5387MS-FS	4	--	3/29/2018 4:24:00 PM	J5387MS-FS	3	500	480	1.042	2.083	03/29/18 SAS
J5387MS-FS-D	5	--	3/29/2018 4:24:00 PM	J5387MS-FS	3	500	20	25.000	50.000	03/29/18 SAS
J5387MSD-FS	0	C	3/22/2018 1:19:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
J5387MSD-FS	2	--	3/22/2018 4:49:00 PM	J5387MSD-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5387MSD-FS	3	C	3/22/2018 4:49:00 PM	J5387MSD-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5387MSD-FS	4	--	3/29/2018 4:24:00 PM	J5387MSD-FS	3	500	480	1.042	2.083	03/29/18 SAS
J5387MSD-FS-D	5	--	3/29/2018 4:24:00 PM	J5387MSD-FS	3	500	20	25.000	50.000	03/29/18 SAS
J5388-FS	0	C	3/22/2018 1:19:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
J5388-FS	2	--	3/22/2018 4:49:00 PM	J5388-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5388-FS	3	C	3/22/2018 4:49:00 PM	J5388-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5388-FS	4	--	3/29/2018 4:24:00 PM	J5388-FS	3	500	480	1.042	2.083	03/29/18 SAS
J5388-FS-D	5	--	3/29/2018 4:24:00 PM	J5388-FS	3	500	20	25.000	50.000	03/29/18 SAS
J5389-FS	0	C	3/22/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
J5389-FS	2	--	3/22/2018 4:49:00 PM	J5389-FS	0	10000	5000	2.000	2.000	03/22/18 SAS

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] \* [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] \* Prior Dilution Factor

\* - "C" = Extract is Consumed





It can be done

## BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**

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**18-0207****CTO-JM08 - Naval Construction Batallion Center (NCBC)****GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J5389-FS	3	C	3/22/2018 4:49:00 PM	J5389-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5389-FS	4	--	3/29/2018 4:24:00 PM	J5389-FS	3	500	480	1.042	2.083	03/29/18 SAS
J5389-FS-D	5	--	3/29/2018 4:24:00 PM	J5389-FS	3	500	20	25.000	50.000	03/29/18 SAS
J5390-FS	0	C	3/22/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
J5390-FS	2	--	3/22/2018 4:49:00 PM	J5390-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5390-FS	3	C	3/22/2018 4:49:00 PM	J5390-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5390-FS	4	--	3/29/2018 4:24:00 PM	J5390-FS	3	500	480	1.042	2.083	03/29/18 SAS
J5390-FS-D	5	--	3/29/2018 4:24:00 PM	J5390-FS	3	500	20	25.000	50.000	03/29/18 SAS
J5392-FS	0	C	3/22/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
J5392-FS	2	--	3/22/2018 4:49:00 PM	J5392-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5392-FS	3	C	3/22/2018 4:49:00 PM	J5392-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5392-FS	4	--	3/29/2018 4:24:00 PM	J5392-FS	3	500	480	1.042	2.083	03/29/18 SAS
J5392-FS-D	5	--	3/29/2018 4:24:00 PM	J5392-FS	3	500	20	25.000	50.000	03/29/18 SAS
J5394-FS	0	C	3/22/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] \* [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] \* Prior Dilution Factor

\* - "C" = Extract is Consumed



It can be done

## BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

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**18-0207****CTO-JM08 - Naval Construction Batallion Center (NCBC)****GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J5394-FS	2	--	3/22/2018 4:49:00 PM	J5394-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5394-FS	3	C	3/22/2018 4:49:00 PM	J5394-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5394-FS	4	--	3/28/2018 2:18:00 PM	J5394-FS	3	500	480	1.042	2.083	03/28/18 SAS
J5394-FS-D	5	--	3/28/2018 2:18:00 PM	J5394-FS	3	500	20	25.000	50.000	03/28/18 SAS
J5395-FS	0	C	3/22/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
J5395-FS	2	--	3/22/2018 4:49:00 PM	J5395-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5395-FS	3	C	3/22/2018 4:49:00 PM	J5395-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5395-FS	4	--	3/29/2018 4:24:00 PM	J5395-FS	3	500	480	1.042	2.083	03/29/18 SAS
J5395-FS-D	5	--	3/29/2018 4:24:00 PM	J5395-FS	3	500	20	25.000	50.000	03/29/18 SAS
J5396-FS	0	C	3/22/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
J5396-FS	2	--	3/22/2018 4:49:00 PM	J5396-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5396-FS	3	C	3/22/2018 4:49:00 PM	J5396-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5396-FS	4	--	3/29/2018 4:24:00 PM	J5396-FS	3	500	480	1.042	2.083	03/29/18 SAS
J5396-FS-D	5	--	3/29/2018 4:24:00 PM	J5396-FS	3	500	20	25.000	50.000	03/29/18 SAS

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] \* [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] \* Prior Dilution Factor

\* - "C" = Extract is Consumed



It can be done

## BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**

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**18-0207****CTO-JM08 - Naval Construction Battalion Center (NCBC)****GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J5397-FS	0	C	3/22/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	03/22/18 SAS
J5397-FS	2	--	3/22/2018 4:49:00 PM	J5397-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5397-FS	3	C	3/22/2018 4:49:00 PM	J5397-FS	0	10000	5000	2.000	2.000	03/22/18 SAS
J5397-FS	4	--	3/29/2018 4:24:00 PM	J5397-FS	3	500	480	1.042	2.083	03/29/18 SAS
J5397-FS-D	5	--	3/29/2018 4:24:00 PM	J5397-FS	3	500	20	25.000	50.000	03/29/18 SAS
<b>Extract Id:</b> CQ320PB-FS		<b>Comments:</b> Samples reconstituted in 80/20 methanol/milli-q water (RP-180323-2)								

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] \* [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] \* Prior Dilution Factor

\* - "C" = Extract is Consumed



It can be done

**BATTELLE - NORWELL OPERATIONS  
EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE**

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

100112541

**18-0207**

**CTO-JM08 - Naval Construction Battalion Center (NCBC)**

**GW**

<b>Purpose:</b>	LC-MS/MS TRANSFER	<b>Last Activity:</b>	Prep->Inst
<b>Relinquished On/By:</b>	Mar 27 2018 11:54AM SAS	<b>Received On/By:</b>	Mar 27 2018 4:16PM DMS
<b>Relinquished From:</b>	Sample Preparation: NA	<b>Received Location:</b>	Sample Preparation: NA
<b>Relinquish Comment:</b>	NA	<b>Received Comment:</b>	NA

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	CQ320PB-FS(3)	500	2	Intact	NA
2	CQ321LCS-FS(3)	500	2	Intact	NA
3	J5387-FS(3)	500	2	Intact	NA
4	J5387MS-FS(3)	500	2	Intact	NA
5	J5387MSD-FS(3)	500	2	Intact	NA
6	J5388-FS(3)	500	2	Intact	NA
7	J5389-FS(3)	500	2	Intact	NA
8	J5390-FS(3)	500	2	Intact	NA
9	J5392-FS(3)	500	2	Intact	NA
10	J5394-FS(3)	500	2	Intact	NA
11	J5395-FS(3)	500	2	Intact	NA
12	J5396-FS(3)	500	2	Intact	NA
13	J5397-FS(3)	500	2	Intact	NA

**Total Extracts:** 13



It can be done

## BATTELLE - NORWELL OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

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**18-0207****CTO-JM08 - Naval Construction Battalion Center (NCBC)****GW**

<b>Purpose:</b>	LC-MS/MS TRANSFER	<b>Last Activity:</b>	Prep->Inst
<b>Relinquished On/By:</b>	Mar 28 2018 4:45PM SAS	<b>Received On/By:</b>	Mar 28 2018 5:33PM DMS
<b>Relinquished From:</b>	Sample Preparation: NA	<b>Received Location:</b>	LC Laboratory: NA
<b>Relinquish Comment:</b>	NA	<b>Received Comment:</b>	re-aliquot of original extracts and dilution.

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	CQ320PB-FS(3)	500	2	Intact	NA
2	CQ321LCS-FS(3)	500	2	Intact	NA
3	J5387-FS(3)	500	2	Intact	NA
4	J5387MS-FS(3)	500	2	Intact	NA
5	J5387MSD-FS(3)	500	2	Intact	NA
6	J5388-FS(3)	500	2	Intact	NA
7	J5389-FS(3)	500	2	Intact	NA
8	J5390-FS(3)	500	2	Intact	NA
9	J5392-FS(3)	500	2	Intact	NA
10	J5394-FS(4)	500	2.083	Intact	NA
11	J5394-FS-D(5)	500	50	Intact	NA
12	J5395-FS(3)	500	2	Intact	NA
13	J5396-FS(3)	500	2	Intact	NA
14	J5397-FS(3)	500	2	Intact	NA

**Total Extracts:** 14



It can be done

## BATTELLE - NORWELL OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

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**18-0207****CTO-JM08 - Naval Construction Battalion Center (NCBC)****GW**

<b>Purpose:</b>	LC-MS/MS TRANSFER	<b>Last Activity:</b>	Prep->Inst
<b>Relinquished On/By:</b>	Mar 29 2018 4:57PM SAS	<b>Received On/By:</b>	Mar 29 2018 5:34PM DMS
<b>Relinquished From:</b>	Sample Preparation: NA	<b>Received Location:</b>	LC Laboratory: NA
<b>Relinquish Comment:</b>	NA	<b>Received Comment:</b>	NA

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	J5387-FS-D(5)	500	50	Intact	NA
2	J5387MS-FS-D(5)	500	50	Intact	NA
3	J5387MSD-FS-D(5)	500	50	Intact	NA
4	J5388-FS-D(5)	500	50	Intact	NA
5	J5389-FS-D(5)	500	50	Intact	NA
6	J5390-FS-D(5)	500	50	Intact	NA
7	J5392-FS-D(5)	500	50	Intact	NA
8	J5395-FS-D(5)	500	50	Intact	NA
9	J5396-FS-D(5)	500	50	Intact	NA
10	J5397-FS-D(5)	500	50	Intact	NA

<b>Total Extracts:</b>	10
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It can be done

**BATTELLE - NORWELL OPERATIONS  
MISCELLANEOUS DOCUMENTATION FORM**

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

100112541

**18-0207**

**CTO-JM08 - Naval Construction Batallion Center (NCBC)**

**GW**

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Entered By:

On:

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Task Leader Approval:

On:

SupervisorApproval:

On:

PM Approval:

On:

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It can be done

## BATTELLE - NORWELL OPERATIONS SAMPLE SPECIFIC COMMENTS

**Project Title(s)**

PFAS Analytical work

**Project No.(s)**

100112541

**18-0207****CTO-JM08 - Naval Construction Battalion Center (NCBC)****GW**

Sample ID:	Comment:	Date/Initials:
CQ320PB-FS	Sample extraction for CQ320PB-FS through J5388-FS began at 1:19pm	03/22/18 SAS
CQ320PB-FS	Sample extractions ended at 2:20pm	03/22/18 SAS
CQ321LCS-FS	Sample extractions ended at 2:15pm	03/22/18 SAS
J5387-FS	Due to particulates in sample, the sample was centrifuged for 5 minutes at 1000RPMs prior to spiking.	03/22/18 SAS
J5387-FS	Sample extractions ended at 2:32pm	03/22/18 SAS
J5387MS-FS	Due to particulates in sample, the sample was centrifuged for 5 minutes at 1000RPMs prior to spiking.	03/22/18 SAS
J5387MS-FS	Sample extractions ended at 2:22pm	03/22/18 SAS
J5387MSD-FS	Due to particulates in sample, the sample was centrifuged for 5 minutes at 1000RPMs prior to spiking.	03/22/18 SAS
J5387MSD-FS	Sample extractions ended at 2:34pm	03/22/18 SAS
J5388-FS	Sample extractions ended at 2:18pm	03/22/18 SAS
J5389-FS	Sample extraction for J5389-FS through J5397-FS began at 2:59pm	03/22/18 SAS
J5389-FS	Sample extractions ended at 4:03pm	03/22/18 SAS
J5390-FS	Sample extraction ended at 4:08pm	03/22/18 SAS
J5392-FS	Due to particulates in sample, the sample was centrifuged for 5 minutes at 1000RPMs prior to spiking.	03/22/18 SAS
J5392-FS	Sample extraction ended at 4:10pm	03/22/18 SAS
J5394-FS	Sample extractions ended at 4:05pm	03/22/18 SAS
J5395-FS	Sample extractions ended at 3:55pm	03/22/18 SAS
J5396-FS	Sample extractions ended at 3:56pm	03/22/18 SAS
J5397-FS	Sample extractions ended at 4:04pm	03/22/18 SAS

**BATTELLE**

It can be done

BDO Id: 171025-02

## Reagent Receipt Report

Approved:  

Name: PFOA - ICAL Mix Received: 10/25/2017

Vendor: ABSOLUTE STANDARDS Custodian: Schumitz, Matt

Catalogue No: 99207 Expires: 10/17/2022

Type: Solution Consumed: \_\_\_\_\_

Lot No: 101717 Stored In: LC Laboratory - F0111

Quantity: 5 ea ml % Moisture: \_\_\_\_\_

Description: PFOA - DOD

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
(Na) 1H,1H,2H,2H-Perfluorodecane	39108-34-4	1.0100	100.00	--	--	<input type="checkbox"/>			
(Na) 1H,1H,2H,2H-Perfluorohexane	BDO-2205	1.0000	100.00	--	--	<input type="checkbox"/>			
(Na) 1H,1H,2H,2H-Perfluorooctane s	27619-97-2	1.0000	100.00	--	--	<input type="checkbox"/>			
(Na) Perfluoro-1-decanesulfonate	2806-15-7	1.0100	100.00	--	--	<input type="checkbox"/>			
(NA) Perfluoro-1-heptanesulfonate	375-92-8	1.0000	100.00	--	--	<input type="checkbox"/>			
(Na) Perfluoro-1-nonanesulfonate	98789-57-2	1.0100	100.00	--	--	<input type="checkbox"/>			
N-ethylperfluoro-octanesulfonamidoa	2991-50-6	1.0000	100.00	--	--	<input type="checkbox"/>			
N-methylperfluoro-1-octanesulfonami	2355-31-9	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-butanefulfonic Acid	375-73-5	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-hexanesulfonic Acid	355-46-4	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-octanesulfonamide	754-91-6	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-octanesulphonic Acid	1763-23-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-butanoic Acid	375-22-4	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-decanoic Acid	335-76-2	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-dodecanoic acid	307-55-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-heptanoic Acid	375-85-9	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-hexanoic acid	307-24-4	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-octanoic Acid	335-67-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluorononanoic Acid	375-95-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-pentanoic acid	2706-90-3	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-tetradecanoic acid	376-06-7	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-tridecanoic acid	72629-94-8	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-undecanoic acid	2058-94-8	1.0000	100.00	--	--	<input type="checkbox"/>			
Sodium perfluoro-1-pentanesulfonat	BDO-2114	1.0000	100.00	--	--	<input type="checkbox"/>			

Total Analytes: 24

Notes:

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_

Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_



**CERTIFIED WEIGHT REPORT**

**Part Number:** 9920Z  
**Lot Number:** 03221Z  
**Description:** PFOA - (FOD)  
24 components  
**Expiration Date:** 032222  
**Recommended Storage:** Freezer (-20°C)  
**Nominal Concentration (µg/mL):** 1.0  
**NIST Test ID#:** 822-275872-11

**Formulated By:** Paul Barron  
**Reviewed By:** Pedro L. Rentas

**Lot#**  
031317 (98%)  
23214 (2%)

**Solvent(s):**  
Methanol (1 mM KOH)  
2-Propanol

**Balance Uncertainty**  
5E-05

**Flask Uncertainty**  
0.007

**DATE**  
032217

**DATE**  
032217

Volume(s) shown below were combined and diluted to (mL):  
**Note: All assigned values are anion concentrations.**

**Expanded Uncertainty**  
Conc. (µg/mL) (+/-) (µg/mL)

**Final Conc. (µg/mL)**

**Initial Conc. (µg/mL)**

**Initial Vol. (mL)**

**Dilution Factor**

**Lot Number**

**Part Number**

**SDS Information**

(Solvent Safety Info. On Attached pg.)

OSHA PEL (TWA)

CAS#

LD50

**Compound**

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Initial Conc. (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	Final Conc. (µg/mL)	OSHA PEL (TWA)	CAS#	LD50
1. Perfluoro-n-butanoic acid	3670	PFBA0516	0.02	1.00	0.004	0.01	50.0	N/A	375-22-4	N/A
2. Perfluoro-n-pentanoic acid	3669	PFPeA0516	0.02	1.00	0.004	0.01	50.0	N/A	2706-90-3	N/A
3. Perfluorohexanoic acid	99199	030617	0.02	1.00	0.004	0.01	50.3	N/A	307-24-4	N/A
4. Perfluoroheptanoic acid	99197	030517	0.02	1.00	0.004	0.01	50.1	N/A	375-85-9	N/A
5. Perfluorooctanoic acid	99202	030617	0.02	1.00	0.004	0.01	50.2	N/A	335-67-1	N/A
6. Perfluorononanoic acid	99200	030617	0.02	1.00	0.004	0.01	50.1	N/A	375-95-1	N/A
7. Perfluorodecanoic acid	99195	030617	0.02	1.00	0.004	0.01	50.1	N/A	335-76-2	N/A
8. Perfluoroundecanoic acid	99205	030617	0.02	1.00	0.004	0.01	50.1	N/A	2058-94-8	N/A
9. Tricosafuorododecanoic acid	99196	030617	0.02	1.00	0.004	0.01	50.1	N/A	307-55-1	N/A
10. Perfluorotridecanoic acid	99204	030617	0.02	1.00	0.004	0.01	50.1	N/A	72629-94-8	N/A
11. Perfluorotetradecanoic acid	99203	030617	0.02	1.00	0.004	0.01	50.1	N/A	376-06-7	N/A
12. Perfluoro-1-octanesulfonamide	3677	FOSA09161	0.02	1.00	0.004	0.01	50.0	N/A	754-91-6	N/A
13. N-Methylperfluoro-1-octanesulfonamidoacetic acid	3667	NMeFOSA0117	0.02	1.00	0.004	0.01	50.0	N/A	2355-31-9	N/A
14. N-Ethylperfluoro-1-octanesulfonamidoacetic acid	3664	NEFOSA0117	0.02	1.00	0.004	0.01	50.0	N/A	2991-50-6	N/A
15. Perfluorobutanesulfonic acid	99194	031017	0.02	1.00	0.004	0.01	50.7	N/A	375-73-5	N/A
16. Perfluoro-1-pentanesulfonic acid	3956	LPFPeS0117	0.0214	1.07	0.004	0.01	46.9	N/A	00-00-0	N/A
17. Perfluorohexanesulfonic acid (branched)	99198	030617	0.02	1.00	0.004	0.01	50.6	N/A	3871-99-6	N/A
18. Perfluoro-1-heptanesulfonic acid	3672	LPFHPS1016	0.021	1.05	0.004	0.01	47.6	N/A	375-92-8	N/A
19. Heptadecafluorooctanesulfonic acid (branched)	99201	030617	0.02	1.00	0.004	0.01	50.2	N/A	1763-23-1	N/A
20. Perfluoro-1-nonanesulfonic acid	3957	LPFNS0516	0.021	1.05	0.004	0.01	48.0	N/A	98789-57-2	N/A
21. Perfluoro-1-decanesulfonic acid	3671	LPFDS0217	0.021	1.05	0.004	0.01	48.2	N/A	2806-15-7	N/A
22. 1H,1H,2H,2H-Perfluorohexane sulfonic acid	3955	42FTS1216	0.0214	1.07	0.004	0.01	46.7	N/A	00-00-0	N/A
23. 1H,1H,2H,2H-Perfluorooctane sulfonic acid	3661	62FTS0616	0.021	1.05	0.004	0.01	47.4	N/A	27619-97-2	N/A
24. 1H,1H,2H,2H-Perfluorodecane sulfonic acid	3662	82FTS1216	0.021	1.05	0.004	0.01	47.9	N/A	39108-34-4	N/A

The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.  
Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).  
Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.  
All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.  
Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



It can be done

BDO Id: 170629-02

## Reagent Receipt Report

Approved:  

**Name:** Mass-labelled PFAS Extraction Stand **Received:** 6/29/2017  
**Vendor:** Wellington Laboratories **Custodian:** Thorn, Jonathan  
**Catalogue No:** MPFAC-24ES **Expires:** 5/19/2022  
**Type:** Solution **Consumed:** \_\_\_\_\_  
**Lot No:** MPFAC24ES1016 **Stored In:** Sample Preparation - C0103  
**Quantity:** 1 ea mL **% Moisture:** 0  
**Description:** Mass-labelled PFAS Extraction Standard Solution

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
N-ethyl-d5-perfluoro-1-octanesulfona	BDO-2126	1.0000	100.00	--	--	<input type="checkbox"/>			
N-methyl-d3-perfluoro-1-octanesulfo	BDO-2125	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-[13C8]octanesulfonamid	BDO-2225	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2,3,4,5,6,7-13C7]unde	BDO-2223	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2,3,4,5,6-13C6]decan	BDO-2222	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic	BDO-2217	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2,3,4-13C4]butanoic a	BDO-2105	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2,3,4-13C4]hepetanoic	BDO-2218	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2-13C2]dodecanoic ac	BDO-2112	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2-13C2]tetradecanoic	BDO-2224	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[13C5]pentanoic acid	BDO-2216	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[13C8]octanoic acid	BDO-2219	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[13C9]nonanoic acid	BDO-2221	1.0000	100.00	--	--	<input type="checkbox"/>			
Sodium 1H,1H,2H,2H-perfluoro-1-[1,	BDO-2220	0.9580	100.00	--	--	<input type="checkbox"/>			
sodium 1H,1H,2H,2H-perfluoro-1-[1,	BDO-2229	0.9350	100.00	--	--	<input type="checkbox"/>			
sodium 1H,1H,2H,2H-perfluoro-1-[1,	BDO-2230	0.9490	100.00	--	--	<input type="checkbox"/>			
Sodium perfluoro-1-[1,2,3-13C3]hexa	BDO-2227	0.9460	100.00	--	--	<input type="checkbox"/>			
Sodium perfluoro-1-[13C8]octanesulf	BDO-2228	0.9570	100.00	--	--	<input type="checkbox"/>			
Sodium perfluoro-1-[2,3,4-13C3]buta	BDO-2226	0.9290	100.00	--	--	<input type="checkbox"/>			

Total Analytes: 19

Notes:

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_  
 Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_

170629-02



**WELLINGTON**  
LABORATORIES

**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

**MPFAC-24ES**

**Mass-Labelled Per- and Poly-fluoroalkyl Substance**  
**Extraction Standard Solution**

**PRODUCT CODE:** MPFAC-24ES  
**LOT NUMBER:** MPFAC24ES1016  
**SOLVENT(S):** Methanol / Isopropanol (2%) / Water (<1%)  
**DATE PREPARED:** (mm/dd/yyyy) 10/20/2016  
**LAST TESTED:** (mm/dd/yyyy) 05/19/2017  
**EXPIRY DATE:** (mm/dd/yyyy) 05/19/2022  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DESCRIPTION:**

MPFAC-24ES is a solution/mixture of ten mass-labelled (<sup>13</sup>C) perfluoroalkylcarboxylic acids (C<sub>4</sub>-C<sub>12</sub> and C<sub>14</sub>), three mass-labelled (<sup>13</sup>C) perfluoroalkylsulfonates (C<sub>4</sub>, C<sub>6</sub>, and C<sub>8</sub>), three mass-labelled (<sup>13</sup>C) telomer sulfonates (4:2, 6:2, and 8:2), two mass-labelled (<sup>2</sup>H) perfluorooctanesulfonamidoacetic acids, and perfluoro-1-[<sup>13</sup>C<sub>8</sub>]octanesulfonamide. The components and their concentrations are given in Table A.

The individual mass-labelled perfluoroalkylcarboxylic acids, mass-labelled perfluoroalkylsulfonates, mass-labelled telomer sulfonates, and perfluoro-1-[<sup>13</sup>C<sub>8</sub>]octanesulfonamide all have chemical purities of >98% and isotopic purities of ≥99%. The individual mass-labelled perfluorooctanesulfonamidoacetic acids all have chemical purities of >98% and isotopic purities of ≥98%.

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations of the Solution/Mixture  
 Figure 1: LC/MS Data (SIR)  
 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 acids to their respective methyl esters.

**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, as well as mixtures and calibration solutions, are compared to older lots in a similar 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](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: MPFAC-24ES; Components and Concentrations**  
(ng/ml,  $\pm$  5% in Methanol / Isopropanol (2%) / Water (<1%))

Compound	Abbreviation	Concentration (ng/ml)		Peak Assignment in Figure 1
		as the salt	as the anion	
Perfluoro-n-[ $^{13}\text{C}_4$ ]butanoic acid	1304-PFBA MPFBA	1000		A
Perfluoro-n-[ $^{13}\text{C}_5$ ]pentanoic acid	1305-PFPeA M5PFPeA	1000		B
Perfluoro-n-[1,2,3,4,6- $^{13}\text{C}_6$ ]hexanoic acid	1305-PFHxA M5PFHxA	1000		E
Perfluoro-n-[1,2,3,4- $^{13}\text{C}_6$ ]heptanoic acid	1304-PFHpA M4PFHpA	1000		F
Perfluoro-n-[ $^{13}\text{C}_8$ ]octanoic acid	1308-PFOA M8PFOA	1000		I
Perfluoro-n-[ $^{13}\text{C}_9$ ]nonanoic acid	1309-PFNA M9PFNA	1000		J
Perfluoro-n-[1,2,3,4,5,6- $^{13}\text{C}_{10}$ ]decanoic acid	1306-PFDA M6PFDA	1000		M
Perfluoro-n-[1,2,3,4,5,6,7- $^{13}\text{C}_{11}$ ]undecanoic acid	1307-PFUdA M7PFUdA	1000		Q
Perfluoro-n-[1,2- $^{13}\text{C}_{12}$ ]dodecanoic acid	1302-PFDoA MPFDoA	1000		R
Perfluoro-n-[1,2- $^{13}\text{C}_{14}$ ]tetradecanoic acid	1302-PFTeDA M2PFTeDA	1000		S
Perfluoro-1-[ $^{13}\text{C}_8$ ]octanesulfonamide	① 1308-PFOA M8FOA	1000		N
N-methyl-d <sub>3</sub> -perfluoro-1-octanesulfonamidoacetic acid	d3-N-MeFOSAA	1000		O d3-MeFOSAA
N-ethyl-d <sub>5</sub> -perfluoro-1-octanesulfonamidoacetic acid	d5-N-EtFOSAA	1000		P d5-EtFOSAA
Compound	Abbreviation	Concentration (ng/ml)		Peak Assignment in Figure 1
		as the salt	as the anion	
Sodium perfluoro-1-[2,3,4- $^{13}\text{C}_3$ ]butanesulfonate	1303 - M3PFBS	1000	929	C
Sodium perfluoro-1-[1,2,3- $^{13}\text{C}_3$ ]hexanesulfonate	1303 - M3PFHxS	1000	946	G
Sodium perfluoro-1-[ $^{13}\text{C}_8$ ]octanesulfonate	1308 - M8PFOS	1000	957	K
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$ ]hexanesulfonate	1302 - M2-4:2FTS	1000	935	D
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$ ]octanesulfonate	1302 - M2-6:2FTS	1000	949	H
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$ ]decanesulfonate	1302 - M2-8:2FTS	1000	958	L

① s/b 1308-FOSA JMT 7/3/17

Certified By: \_\_\_\_\_

B.G. Chittim, General Manager

Date: 05/24/2017  
(mm/dd/yyyy)



**BATTELLE**

It can be done

BDO Id: 170629-03**Reagent Receipt Report**Approved:  

**Name:** Mass-labeled PFAS Injection Standar **Received:** 6/29/2017  
**Vendor:** Wellington Laboratories **Custodian:** Thorn, Jonathan  
**Catalogue No:** MPFAC-C-IS **Expires:** 5/2/2022  
**Type:** Solution **Consumed:** \_\_\_\_\_  
**Lot No:** MPFACCIS0516 **Stored In:** Sample Preparation - C0103  
**Quantity:** 2 ea mL **% Moisture:** 0  
**Description:** Mass-labeled PFAS Injection Standards Solution

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
Perfluoro-1-[1,2,3,4-13C4]octanesulf	BDO-2121	1.9100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2-13C2]decanoic acid	BDO-2110	2.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2-13C2]octanoic acid	BDO-2107	2.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[2,3,4-13C3]butanoic Aci	BDO-2231	2.0000	100.00	--	--	<input type="checkbox"/>			

Total Analytes: 4

Notes:

**Approved by:** \_\_\_\_\_ **Approved on:** \_\_\_\_\_  
**Authorized by:** \_\_\_\_\_ **Authorized on:** \_\_\_\_\_

170629-03



**WELLINGTON**  
LABORATORIES

**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

**MPFAC-C-IS**

**Mass-Labelled Perfluorinated  
Compound Injection Standards Solution**

**PRODUCT CODE:** MPFAC-C-IS  
**LOT NUMBER:** MPFACCIS0516  
**SOLVENT(S):** Methanol / Water (<1%)  
**DATE PREPARED:** (mm/dd/yyyy) 05/24/2016  
**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

**DESCRIPTION:**

MPFAC-C-IS is a solution/mixture of mass-labelled ( $^{13}\text{C}$ ) perfluoroalkylcarboxylic acids and a mass-labelled ( $^{13}\text{C}$ ) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual mass-labelled perfluoroalkylcarboxylic acids and mass-labelled perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of  $\geq 99\%$ .

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations of the Solution/Mixture  
 Figure 1: LC/MS Data (SIR)  
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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**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 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  $\pm 5\%$  RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar 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:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(x_i)^2}$$

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](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A:** MPFAC-C-IS; Components and Concentrations (ng/ml;  $\pm$  5% in Methanol / Water (<1%))

Compound	Abbreviation	Concentration (ng/ml)	Peak Assignment in Figure 1
Perfluoro-n-[2,3,4- $^{13}\text{C}_3$ ]butanoic acid	13C3-PFBA M3PFBA	2000	A
Perfluoro-n-[1,2- $^{13}\text{C}_2$ ]octanoic acid	13C2-PFOA M2PFOA	2000	B
Perfluoro-n-[1,2- $^{13}\text{C}_2$ ]decanoic acid	13C2-PFDA MPFDA	2000	D
Sodium perfluoro-1-[1,2,3,4- $^{13}\text{C}_4$ ]octanesulfonate	13C4-PFOS	2000	C

Certified By:

  
 B.G. Chittim, General Manager
Date: 05/04/2017  
(mm/dd/yyyy)



It can be done

BDO Id: 171025-01

## Reagent Receipt Report

Approved:  

**Name:** PFOA - 2nd Source **Received:** 10/25/2017  
**Vendor:** ABSOLUTE STANDARDS **Custodian:** Schumitz, Matt  
**Catalogue No:** 99207 **Expires:** 3/22/2022  
**Type:** Solution **Consumed:** \_\_\_\_\_  
**Lot No:** 032217 **Stored In:** LC Laboratory - F0111  
**Quantity:** 5 ea ml **% Moisture:** \_\_\_\_\_  
**Description:** PFOA-DOD

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
(Na) 1H,1H,2H,2H-Perfluorodecane	39108-34-4	1.0100	100.00	--	--	<input type="checkbox"/>			
(Na) 1H,1H,2H,2H-Perfluorohexane	BDO-2205	1.0000	100.00	--	--	<input type="checkbox"/>			
(Na) 1H,1H,2H,2H-Perfluorooctane s	27619-97-2	1.0000	100.00	--	--	<input type="checkbox"/>			
(Na) Perfluoro-1-decanesulfonate	2806-15-7	1.0100	100.00	--	--	<input type="checkbox"/>			
(NA) Perfluoro-1-heptanesulfonate	375-92-8	1.0000	100.00	--	--	<input type="checkbox"/>			
(Na) Perfluoro-1-nonanesulfonate	98789-57-2	1.0100	100.00	--	--	<input type="checkbox"/>			
N-ethylperfluoro-octanesulfonamidoa	2991-50-6	1.0000	100.00	--	--	<input type="checkbox"/>			
N-methylperfluoro-1-octanesulfonami	2355-31-9	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-butanefulfonic Acid	375-73-5	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-hexanesulfonic Acid	355-46-4	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-octanesulfonamide	754-91-6	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-octanesulphonic Acid	1763-23-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-butanoic Acid	375-22-4	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-decanoic Acid	335-76-2	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-dodecanoic acid	307-55-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-heptanoic Acid	375-85-9	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-hexanoic acid	307-24-4	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-octanoic Acid	335-67-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluorononanoic Acid	375-95-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-pentanoic acid	2706-90-3	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-tetradecanoic acid	376-06-7	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-tridecanoic acid	72629-94-8	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-undecanoic acid	2058-94-8	1.0000	100.00	--	--	<input type="checkbox"/>			
Sodium perfluoro-1-pentanesulfonat	BDO-2114	1.0000	100.00	--	--	<input type="checkbox"/>			

Total Analytes: 24

Notes:

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_  
 Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_





**CERTIFIED WEIGHT REPORT**

**Part Number:** 99207  
**Lot Number:** 101717  
**Description:** PFOA - DOD  
24 components  
**Expiration Date:** 101722  
**Recommended Storage:** Freezer (-20°C)  
**Nominal Concentration (µg/mL):** 1.0  
**NIST Test ID#:** 2506734D

**Solvent(s):** Methanol (1 mM KOH)  
2-Propanol  
**Lot#** 031317 (98%)  
23214 (2%)

**Volume(s)** shown below were combined and diluted to (mL):  
**Note: All assigned values are anion concentrations.**

Formulated By: <i>Marlo Lux</i> Marlo Lux	DATE 101717
Reviewed By: <i>Pedro L. Rentas</i> Pedro L. Rentas	DATE 101717

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
									(Solvent Safety Info. On Attached pg.)	CAS# OSHA PEL (TWA) LD50
1. Perfluoro-n-butanoic acid	3670	PFBAC516	0.02	1.00	0.004	50.0	1.00	0.01	375-22-4	N/A
2. Perfluoro-n-pentanoic acid	3669	PFPeA617	0.02	1.00	0.004	50.0	1.00	0.01	2706-90-3	N/A
3. Perfluorohexanoic acid	99199	03067	0.02	1.00	0.004	50.3	1.01	0.01	307-24-4	N/A
4. Perfluoroheptanoic acid	99197	03057	0.02	1.00	0.004	50.1	1.00	0.01	375-85-9	N/A
5. Perfluorooctanoic acid	99202	03067	0.02	1.00	0.004	50.2	1.00	0.01	335-67-1	N/A ipr-rat 189mg/kg
6. Perfluorononanoic acid	99200	03067	0.02	1.00	0.004	50.1	1.00	0.01	375-95-1	N/A
7. Perfluorodecanoic acid	99195	03067	0.02	1.00	0.004	50.1	1.00	0.01	335-76-2	N/A orl-rat 57mg/kg
8. Perfluoroundecanoic acid	99205	03067	0.02	1.00	0.004	50.1	1.00	0.01	2058-94-8	N/A
9. Tricosafluorododecanoic acid	99196	03067	0.02	1.00	0.004	50.1	1.00	0.01	307-55-1	N/A
10. Perfluorotridecanoic acid	99204	03067	0.02	1.00	0.004	50.1	1.00	0.01	72629-94-8	N/A
11. Perfluorotetradecanoic acid	99203	03067	0.02	1.00	0.004	50.1	1.00	0.01	376-06-7	N/A
12. Perfluoro-1-octanesulfonamide	3677	FOSA09161	0.02	1.00	0.004	50.0	1.00	0.01	754-91-6	N/A
13. N-Methylperfluoro-1-octanesulfonamidoacetic acid	3667	NMeFOSA0117	0.02	1.00	0.004	50.0	1.00	0.01	2355-31-9	N/A
14. N-Ethylperfluoro-1-octanesulfonamidoacetic acid	3664	NEFOSA0117	0.02	1.00	0.004	50.0	1.00	0.01	2991-50-6	N/A
15. Perfluorobutanesulfonic acid	99194	031017	0.02	1.00	0.004	50.7	1.01	0.01	375-73-5	N/A
16. Perfluoro-1-pentanesulfonic acid	3956	LFPeS0117	0.0214	1.07	0.004	46.9	1.00	0.01	630402-22-1	N/A
17. Perfluorohexanesulfonic acid (branched)	99198	030617	0.02	1.00	0.004	50.6	1.01	0.01	3871-99-6	N/A
18. Perfluoro-1-heptanesulfonic acid	3672	LPHpS0817	0.021	1.05	0.004	47.6	1.00	0.01	375-92-8	N/A
19. Heptadecafluorooctanesulfonic acid (branched)	99201	030617	0.02	1.00	0.004	50.2	1.00	0.01	1763-23-1	N/A
20. Perfluoro-1-nonanesulfonic acid	3957	LPFNS0516	0.021	1.05	0.004	48.0	1.01	0.01	98789-57-2	N/A
21. Perfluoro-1-decane sulfonic acid	3671	LPFDS0217	0.021	1.05	0.004	48.2	1.01	0.01	2806-15-7	N/A
22. 1H,1H,2H,2H-Perfluorohexane sulfonic acid	3955	42FTS1216	0.0214	1.07	0.004	46.7	1.00	0.01	00-00-0	N/A
23. 1H,1H,2H,2H-Perfluorooctane sulfonic acid	3661	62FTS0616	0.021	1.05	0.004	47.4	1.00	0.01	27619-97-2	N/A
24. 1H,1H,2H,2H-Perfluorodecane sulfonic acid	3662	82FTS1216	0.021	1.05	0.004	47.9	1.01	0.01	39108-34-4	N/A

\* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.  
 \* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).  
 \* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.  
 \* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.  
 \* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

20-50121

**BATTELLE**

It can be done

BDO Id: 161230-01

## Reagent Receipt Report

Approved:  

**Name:** br-PFHxSK **Received:** 12/30/2016  
**Vendor:** Wellington Laboratories **Custodian:** Schumitz, Matt  
**Catalogue No:** br-PFHxSK **Expires:** 7/3/2020  
**Type:** Solution **Consumed:** \_\_\_\_\_  
**Lot No:** br-PFHxSK0615 **Stored In:** Sample Preparation - C0103  
**Quantity:** 1 ea ml **% Moisture:** \_\_\_\_\_  
**Description:** br-PFHxSK

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
br-PFHxSK	BDO-2170	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5 1

Total Analytes: 1

## Notes:

Analyte:

Comment:

1 br-PFHxSK	50 +/- 2.5ug/ml (total potassium salt)45.5+- 2.3 ug/ml (total PFHxS anion)
-------------	--

**Approved by:** \_\_\_\_\_ **Approved on:** \_\_\_\_\_  
**Authorized by:** \_\_\_\_\_ **Authorized on:** \_\_\_\_\_



161230-01



**WELLINGTON**  
LABORATORIES

**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

**br-PFHxSK**

**Potassium Perfluorohexanesulfonate  
Solution/Mixture of Linear and  
Branched Isomers**

<b><u>PRODUCT CODE:</u></b>	br-PFHxSK
<b><u>LOT NUMBER:</u></b>	brPFHxSK0615
<b><u>CONCENTRATION:</u></b>	50.0 ± 2.5 µg/ml (total potassium salt) 45.5 ± 2.3 µg/ml (total PFHxS anion)
<b><u>SOLVENT(S):</u></b>	Methanol
<b><u>DATE PREPARED:</u></b> (mm/dd/yyyy)	06/29/2015
<b><u>LAST TESTED:</u></b> (mm/dd/yyyy)	07/03/2015
<b><u>EXPIRY DATE:</u></b> (mm/dd/yyyy)	07/03/2020
<b><u>RECOMMENDED STORAGE:</u></b>	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 <sup>19</sup>F-NMR  
Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS Data  
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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**BATTELLE**

It can be done

BDO Id: 161230-02

## Reagent Receipt Report

Approved:  

**Name:** br-PFOSK **Received:** 12/30/2016  
**Vendor:** Wellington Laboratories **Custodian:** Schumitz, Matt  
**Catalogue No:** br-PFOSK **Expires:** 10/14/2020  
**Type:** Solution **Consumed:** \_\_\_\_\_  
**Lot No:** br-PFOSK1015 **Stored In:** Sample Preparation - C0103  
**Quantity:** 1 ea ml **% Moisture:** \_\_\_\_\_  
**Description:** br-PFOSK

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
br-PFOSK	BDO-2171	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5 1

Total Analytes: 1

## Notes:

Analyte:

Comment:

1 br-PFOSK

50 +/- 2.5 ug/ml (total potassium salt)46.4+- 2.3 ug/ml (total PFOS anion)

**Approved by:** \_\_\_\_\_ **Approved on:** \_\_\_\_\_  
**Authorized by:** \_\_\_\_\_ **Authorized on:** \_\_\_\_\_



**WELLINGTON**  
LABORATORIES

161230-02  
**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

**br-PFOSK**

**Potassium Perfluorooctanesulfonate  
Solution/Mixture of Linear and  
Branched Isomers**

<b><u>PRODUCT CODE:</u></b>	br-PFOSK
<b><u>LOT NUMBER:</u></b>	brPFOSK1015
<b><u>CONCENTRATION:</u></b>	50 ± 2.5 µg/ml (total potassium salt) 46.4 ± 2.3 µg/ml (total PFOS anion)
<b><u>SOLVENT(S):</u></b>	Methanol
<b><u>DATE PREPARED:</u></b> (mm/dd/yyyy)	10/13/2015
<b><u>LAST TESTED:</u></b> (mm/dd/yyyy)	10/14/2015
<b><u>EXPIRY DATE:</u></b> (mm/dd/yyyy)	10/14/2020
<b><u>RECOMMENDED STORAGE:</u></b>	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 <sup>19</sup>F-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).

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**BATTELLE**

It can be done

BDO Id: 161230-04

## Reagent Receipt Report

Approved:  

**Name:** NaP3MHpS **Received:** 12/30/2016  
**Vendor:** Wellington Laboratories **Custodian:** Schumitz, Matt  
**Catalogue No:** NaP3MHpS **Expires:** 6/10/2020  
**Type:** Solution **Consumed:** \_\_\_\_\_  
**Lot No:** NaP3MHpS0615 **Stored In:** Sample Preparation - C0103  
**Quantity:** 1 ea ml **% Moisture:** \_\_\_\_\_  
**Description:** NaP3MHpS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
NaP3MFpS	BDO-2174	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5 1

Total Analytes: 1

## Notes:

Analyte:

Comment:

1 NaP3MFpS	50.+ 2.5 ug/ml (Na salt) 47.8+ 2.4 ug/ml (anion)
------------	--

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_  
 Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_

161230-04


**WELLINGTON**  
 LABORATORIES

**CERTIFICATE OF ANALYSIS**  
 DOCUMENTATION

**PRODUCT CODE:** NaP3MHpS **LOT NUMBER:** NaP3MHpS0615  
**COMPOUND:** Sodium perfluoro-3-methylheptanesulfonate  
**STRUCTURE:** **CAS #:** Not available



**MOLECULAR FORMULA:**  $C_8F_{17}SO_3Na$  **MOLECULAR WEIGHT:** 522.11  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol  
 47.8 ± 2.4 µg/ml (NaP3MHpS anion)  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 06/10/2015  
**EXPIRY DATE:** (mm/dd/yyyy) 06/10/2020  
**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:** 06/11/2015  
(mm/dd/yyyy)

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**BATTELLE**

It can be done

BDO Id: 161230-05

## Reagent Receipt Report

Approved:  

Name: NaP6MHpS Received: 12/30/2016  
 Vendor: Wellington Laboratories Custodian: Schumitz, Matt  
 Catalogue No: NaP6MHpS Expires: 1/23/2020  
 Type: Solution Consumed: \_\_\_\_\_  
 Lot No: NaP6MHpS0115 Stored In: Sample Preparation - C0103  
 Quantity: 1 ea ml % Moisture: \_\_\_\_\_  
 Description: NaP6MHpS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
NaP6MHpS	BDO-2175	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5 1

Total Analytes: 1

## Notes:

Analyte:	Comment:
1 NaP6MHpS	50.+ 2.5 ug/ml (Na salt) 47.8+ 2.4 ug/ml (anion)

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_  
 Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_



161230-05



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**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

**PRODUCT CODE:** NaP6MHpS **LOT NUMBER:** NaP6MHpS0115  
**COMPOUND:** Sodium perfluoro-6-methylheptanesulfonate  
**STRUCTURE:** **CAS #:** Not available



**MOLECULAR FORMULA:** C<sub>8</sub>F<sub>17</sub>SO<sub>3</sub>Na **MOLECULAR WEIGHT:** 522.11  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol  
 47.8 ± 2.4 µg/ml (NaP6MHpS anion)  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 01/23/2015  
**EXPIRY DATE:** (mm/dd/yyyy) 01/23/2020  
**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.

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Certified By: \_\_\_\_\_

  
B.G. Chittim

Date: 03/27/2015  
(mm/dd/yyyy)

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**BATTELLE**

It can be done

BDO Id: 161230-06**Reagent Receipt Report**Approved:  

**Name:** ipPFNS **Received:** 12/30/2016  
**Vendor:** Wellington Laboratories **Custodian:** Schumitz, Matt  
**Catalogue No:** ipPFNS **Expires:** 9/23/2020  
**Type:** Solution **Consumed:** \_\_\_\_\_  
**Lot No:** ipPFNS0912 **Stored In:** Sample Preparation - C0103  
**Quantity:** 1 ea ml **% Moisture:** \_\_\_\_\_  
**Description:** ipPFNS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
ipPFNS	BDO-2176	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5 1

Total Analytes: 1

**Notes:**

Analyte:	Comment:
1 ipPFNS	50.+ - 2.5 ug/ml (Na salt) 48.0+ - 2.4 ug/ml (PFNS anion)

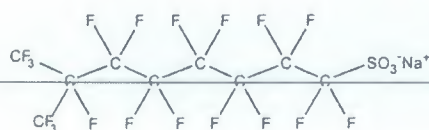
**Approved by:** \_\_\_\_\_ **Approved on:** \_\_\_\_\_  
**Authorized by:** \_\_\_\_\_ **Authorized on:** \_\_\_\_\_

161230-06


**WELLINGTON**  
 LABORATORIES

**CERTIFICATE OF ANALYSIS**  
 DOCUMENTATION

**PRODUCT CODE:** ipPFNS **LOT NUMBER:** ipPFNS0912  
**COMPOUND:** Sodium perfluoro-7-methyloctanesulfonate  
**STRUCTURE:** **CAS #:** Not available



**MOLECULAR FORMULA:** C<sub>9</sub>F<sub>19</sub>SO<sub>3</sub>Na **MOLECULAR WEIGHT:** 572.12  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol  
 48.0 ± 2.4 µg/ml (PFNS anion)  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 09/23/2015  
**EXPIRY DATE:** (mm/dd/yyyy) 09/23/2020  
**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.

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Certified By:

  
 B.G. Chittim

 Date: 10/02/2015  
 (mm/dd/yyyy)

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**BATTELLE**

It can be done

BDO Id: 161230-07**Reagent Receipt Report**Approved:  

**Name:** T-PFOA **Received:** 12/30/2016  
**Vendor:** Wellington Laboratories **Custodian:** Schumitz, Matt  
**Catalogue No:** T-PFOA **Expires:** 2/12/2021  
**Type:** Solution **Consumed:** \_\_\_\_\_  
**Lot No:** T-PFOA0216 **Stored In:** Sample Preparation - C0103  
**Quantity:** 1 ea ml **% Moisture:** \_\_\_\_\_  
**Description:** T-PFOA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
T-PFOA	BDO-2177	50.0000	97.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

**Approved by:** \_\_\_\_\_ **Approved on:** \_\_\_\_\_  
**Authorized by:** \_\_\_\_\_ **Authorized on:** \_\_\_\_\_

161230-07



**WELLINGTON**  
LABORATORIES

**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

<b>PRODUCT CODE:</b>	T-PFOA	<b>LOT NUMBER:</b>	TPFOA0216
<b>COMPOUND:</b>	Technical Ammonium Perfluorooctanoate		
<b>STRUCTURE:</b>	(see Table A)	<b>CAS #:</b>	95328-99-7 (for linear ammonium perfluorooctanoate)
<b>MOLECULAR FORMULA:</b>	$C_8F_{15}O_2NH_4$		
<b>CONCENTRATION:</b>	50 ± 2.5 µg/ml (gravimetric)		
<b>CHEMICAL PURITY:</b>	Technical material		
<b>SOLVENT(S):</b>	Methanol/Water (<1%)		
<b>LAST TESTED:</b> (mm/dd/yyyy)	02/12/2016		
<b>EXPIRY DATE:</b> (mm/dd/yyyy)	02/12/2021		
<b>RECOMMENDED STORAGE:</b>	Store ampoule in a cool, dark place		

**DOCUMENTATION/ DATA ATTACHED:**

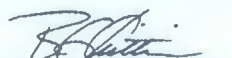
Table A: Isomeric Components and Percent Composition  
 Figure 1: LC/MS Data (TIC and Mass Spectrum)  
 Figure 2: LC/MS Data (SIR)  
 Figure 3: LC/MS/MS Data (Selected MRM Transitions)  
 Figure 4: LC/MS Elution Profile of the Perfluorooctanoic Acid Isomers

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- This technical mixture is >97% ammonium perfluorooctanoate (branched and linear isomers). The remaining 3% consists of common impurities such as the perfluoroheptanoic and perfluorohexanoic acids.
- It is recommended that this solution be used as a *qualitative or semi-quantitative standard only*.
- Contains 4 mole eq. of NaOH to prevent conversion of any carboxylic acids to their corresponding methyl esters.
- The molecular weight of perfluoro-n-octanoic acid is 414.07 g/mol.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

Certified By: \_\_\_\_\_

  
B.G. Chittim

Date: 02/16/2016  
(mm/dd/yyyy)

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It can be done

BDO Id: 161230-08

Reagent Receipt Report

Approved:

Name: P3MHPA Received: 12/30/2016  
 Vendor: Wellington Laboratories Custodian: Schumitz, Matt  
 Catalogue No: P3MHPA Expires: 6/10/2020  
 Type: Solution Consumed: \_\_\_\_\_  
 Lot No: P3MHPA Stored In: Sample Preparation - C0103  
 Quantity: 1 ea ml % Moisture: \_\_\_\_\_  
 Description: P3MHPA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
P3MHPA	BDO-2178	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_  
 Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_

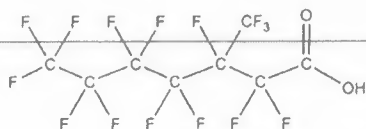
16/230-08



# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

**PRODUCT CODE:** P3MHPA **LOT NUMBER:** P3MHPA0615  
**COMPOUND:** Perfluoro-3-methylheptanoic acid  
**STRUCTURE:** **CAS #:** Not available



**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) 06/10/2015  
**EXPIRY DATE:** (mm/dd/yyyy) 06/10/2020  
**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.

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Certified By:

  
 B.G. Chittim

Date: 06/17/2015  
 (mm/dd/yyyy)

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**BATTELLE**

It can be done

BDO Id: 161230-09

## Reagent Receipt Report

Approved:  

Name: P4MOA Received: 12/30/2016  
 Vendor: Wellington Laboratories Custodian: Schumitz, Matt  
 Catalogue No: P4MOA Expires: 6/10/2020  
 Type: Solution Consumed: \_\_\_\_\_  
 Lot No: P4MOA0615 Stored In: Sample Preparation - C0103  
 Quantity: 1 ea ml % Moisture: \_\_\_\_\_  
 Description: P4MOA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
P4MOA	BDO-2179	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_  
 Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_



161230-09

**WELLINGTON**  
LABORATORIES**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

**PRODUCT CODE:** P4MOA **LOT NUMBER:** P4MOA0615  
**COMPOUND:** Perfluoro-4-methyloctanoic acid  
**STRUCTURE:** **CAS #:** Not available



**MOLECULAR FORMULA:** C<sub>9</sub>H<sub>F<sub>17</sub></sub>O<sub>2</sub> **MOLECULAR WEIGHT:** 464.08  
**CONCENTRATION:** 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol  
 Water (<1%)  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 06/10/2015  
**EXPIRY DATE:** (mm/dd/yyyy) 06/10/2020  
**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: 06/17/2015  
(mm/dd/yyyy)

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**BATTELLE**

It can be done

BDO Id: 161230-10**Reagent Receipt Report**Approved:  

**Name:** ipPFNA **Received:** 12/30/2016  
**Vendor:** Wellington Laboratories **Custodian:** Schumitz, Matt  
**Catalogue No:** ipPFNA **Expires:** 5/31/2021  
**Type:** Solution **Consumed:** \_\_\_\_\_  
**Lot No:** ipPFNA **Stored In:** Sample Preparation - C0103  
**Quantity:** 1 ea ml **% Moisture:** \_\_\_\_\_  
**Description:** ipPFNA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
ipPFNA	BDO-2180	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

**Approved by:** \_\_\_\_\_ **Approved on:** \_\_\_\_\_  
**Authorized by:** \_\_\_\_\_ **Authorized on:** \_\_\_\_\_

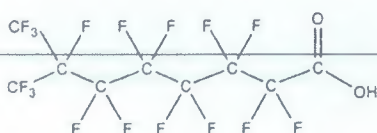
161230-10



**WELLINGTON**  
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**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

**PRODUCT CODE:** ipPFNA **LOT NUMBER:** ipPFNA0516  
**COMPOUND:** Perfluoro-7-methyloctanoic acid  
**STRUCTURE:** **CAS #:** Not available



**MOLECULAR FORMULA:**  $C_9H_9F_{17}O_2$  **MOLECULAR WEIGHT:** 464.08  
**CONCENTRATION:**  $50 \pm 2.5 \mu\text{g/ml}$  **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98% Water (<1%)  
**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:** 06/06/2016  
(mm/dd/yyyy)

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**BATTELLE**

It can be done

BDO Id: 161230-11**Reagent Receipt Report**Approved:  

**Name:** P355TMHxA **Received:** 12/30/2016  
**Vendor:** Wellington Laboratories **Custodian:** Schumitz, Matt  
**Catalogue No:** P355TMHxA **Expires:** 11/27/2019  
**Type:** Solution **Consumed:** \_\_\_\_\_  
**Lot No:** P355TMHxA1114 **Stored In:** Sample Preparation - C0103  
**Quantity:** 1 ea ml **% Moisture:** \_\_\_\_\_  
**Description:** P355TMHxA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
P355TMHxA	BDO-2181	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

**Approved by:** \_\_\_\_\_ **Approved on:** \_\_\_\_\_  
**Authorized by:** \_\_\_\_\_ **Authorized on:** \_\_\_\_\_

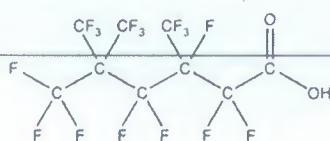
161230-11



# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

**PRODUCT CODE:** P355TMHxA      **LOT NUMBER:** P355TMHxA1114  
**COMPOUND:** Perfluoro-3,5,5-trimethylhexanoic acid  
**STRUCTURE:**      **CAS #:** 238403-51-5



**MOLECULAR FORMULA:** C<sub>9</sub>H<sub>9</sub>F<sub>17</sub>O<sub>2</sub>      **MOLECULAR WEIGHT:** 464.08  
**CONCENTRATION:** 50 ± 2.5 µg/ml      **SOLVENT(S):** Methanol  
 Water (<1%)  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 11/27/2014  
**EXPIRY DATE:** (mm/dd/yyyy) 11/27/2019  
**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.

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**Certified By:**

B.G. Chittim

**Date:** 03/25/2015  
(mm/dd/yyyy)

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**BATTELLE**

It can be done

BDO Id: 161230-12**Reagent Receipt Report**Approved:  

**Name:** P37DMOA  
**Received:** 12/30/2016  
**Vendor:** Wellington Laboratories  
**Custodian:** Schumitz, Matt  
**Catalogue No:** P37DMOA  
**Expires:** 9/24/2019  
**Type:** Solution  
**Consumed:** \_\_\_\_\_  
**Lot No:** P37DMOA0914  
**Stored In:** Sample Preparation - C0103  
**Quantity:** 1 ea ml      **% Moisture:** \_\_\_\_\_  
**Description:** P37DMOA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
P37DMOA	BDO-2182	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

**Approved by:** \_\_\_\_\_ **Approved on:** \_\_\_\_\_  
**Authorized by:** \_\_\_\_\_ **Authorized on:** \_\_\_\_\_





**WELLINGTON**  
LABORATORIES

CERTIFICATE OF ANALYSIS  
DOCUMENTATION

161230-12

**PRODUCT CODE:**

P37DMOA

**LOT NUMBER:**

P37DMOA0914

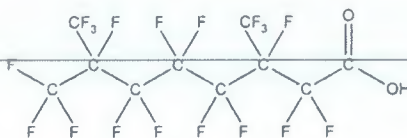
**COMPOUND:**

Perfluoro-3,7-dimethyloctanoic acid

**STRUCTURE:**

**CAS #:**

172155-07-6



**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)

09/24/2014

**EXPIRY DATE:** (mm/dd/yyyy)

09/24/2019

**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: 03/25/2015

(mm/dd/yyyy)

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It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU04

Description: PFAS - DoD Calibration L1

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR03	PFAS -DoD Low ICAL Stock	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU04

Description: PFAS - DoD Calibration L1

Stock Id: JR03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	50	0.01	---	---	1	10	0.00003
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	50	0.01	---	---	1	10	0.00003
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	50	0.01	---	---	1	10	0.00003
(Na) Perfluoro-1-decanesulfonate	50	0.01	---	---	1	10	0.00003
(NA) Perfluoro-1-heptanesulfonate	50	0.01	---	---	1	10	0.00003
(Na) Perfluoro-1-nonanesulfonate	50	0.01	---	---	1	10	0.00003
N-ethylperfluoro-octanesulfonamidoacetic acid	50	0.01	---	---	1	10	0.00003
N-methylperfluoro-1-octanesulfonamidoacetic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-1-butanefulfonic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-1-hexanesulfonic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-1-octanesulfonamide	50	0.01	---	---	1	10	0.00003
Perfluoro-1-octanesulphonic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-butanoic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-decanoic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-dodecanoic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-heptanoic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-hexanoic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-octanoic Acid	50	0.01	---	---	1	10	0.00003
Perfluorononanoic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-pentanoic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-tetradecanoic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-tridecanoic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-undecanoic acid	50	0.01	---	---	1	10	0.00003
Sodium perfluoro-1-pentanesulfonate	50	0.01	---	---	1	10	0.00003

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU04**

Description: PFAS - DoD Calibration L1

Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: **JR06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00003
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00003
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00003
(Na) Perfluoro-1-decanesulfonate	.00003
(NA) Perfluoro-1-heptanesulfonate	.00003
(Na) Perfluoro-1-nonanesulfonate	.00003
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00003
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00003
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanesulfonic Acid	.00003
Perfluoro-1-hexanesulfonic Acid	.00003
Perfluoro-1-octanesulfonamide	.00003
Perfluoro-1-octanesulphonic Acid	.00003
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU04**

Description: PFAS - DoD Calibration L1

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00003
Perfluoro-n-decanoic Acid	.00003
Perfluoro-n-dodecanoic acid	.00003
Perfluoro-n-heptanoic Acid	.00003
Perfluoro-n-hexanoic acid	.00003
Perfluoro-n-octanoic Acid	.00003
Perfluorononanoic Acid	.00003
Perfluoro-n-pentanoic acid	.00003
Perfluoro-n-tetradecanoic acid	.00003
Perfluoro-n-tridecanoic acid	.00003
Perfluoro-n-undecanoic acid	.00003
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00003

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR03	Pipette	D1075429B
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

### Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: **JU05**

Description: PFAS - DoD Calibration L2

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR03	PFAS -DoD Low ICAL Stock	Solution	~0	12/28/18	---	---	100 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie      Date Prepared: 3/12/2018      Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials      Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Balance ID: \_\_\_\_\_

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU05**

Description: PFAS - DoD Calibration L2

Stock Id: **JR03**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	100	0.01	---	---	1	10	0.00005
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	100	0.01	---	---	1	10	0.00005
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	100	0.01	---	---	1	10	0.00005
(Na) Perfluoro-1-decanesulfonate	100	0.01	---	---	1	10	0.00005
(NA) Perfluoro-1-heptanesulfonate	100	0.01	---	---	1	10	0.00005
(Na) Perfluoro-1-nonanesulfonate	100	0.01	---	---	1	10	0.00005
N-ethylperfluoro-octanesulfonamidoacetic acid	100	0.01	---	---	1	10	0.00005
N-methylperfluoro-1-octanesulfonamidoacetic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-1-butanefulfonic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-1-hexanesulfonic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-1-octanesulfonamide	100	0.01	---	---	1	10	0.00005
Perfluoro-1-octanesulphonic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-butanoic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-decanoic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-dodecanoic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-heptanoic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-hexanoic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-octanoic Acid	100	0.01	---	---	1	10	0.00005
Perfluorononanoic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-pentanoic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-tetradecanoic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-tridecanoic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-undecanoic acid	100	0.01	---	---	1	10	0.00005
Sodium perfluoro-1-pentanesulfonate	100	0.01	---	---	1	10	0.00005

Stock Id: **JR04**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010

Solution Prepared By: Schultz, Stephanie

Date Prepared:

3/12/2018

Expiration Date:

12/28/2018

Solution Volume

40 mL X 1

Vials Refrigerator/Freezer No:

LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU05

Description: PFAS - DoD Calibration L2

Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00005
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00005
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00005
(Na) Perfluoro-1-decanesulfonate	.00005
(NA) Perfluoro-1-heptanesulfonate	.00005
(Na) Perfluoro-1-nonanesulfonate	.00005
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00005
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00005
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-buthanesulfonic Acid	.00005
Perfluoro-1-hexanesulfonic Acid	.00005
Perfluoro-1-octanesulfonamide	.00005
Perfluoro-1-octanesulphonic Acid	.00005
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie

Date Prepared: 3/12/2018

Expiration Date:

12/28/2018

Solution Volume

40 mL X 1

Vials

Refrigerator/Freezer No:

LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_





It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU05**

Description: PFAS - DoD Calibration L2

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00005
Perfluoro-n-decanoic Acid	.00005
Perfluoro-n-dodecanoic acid	.00005
Perfluoro-n-heptanoic Acid	.00005
Perfluoro-n-hexanoic acid	.00005
Perfluoro-n-octanoic Acid	.00005
Perfluorononanoic Acid	.00005
Perfluoro-n-pentanoic acid	.00005
Perfluoro-n-tetradecanoic acid	.00005
Perfluoro-n-tridecanoic acid	.00005
Perfluoro-n-undecanoic acid	.00005
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00005

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR03	Pipette	D1075429B
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 3/12/2018	<b>Expiration Date:</b> 12/28/2018
<b>Solution Volume</b> 40 mL X 1 <b>Vials Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107		

Comment: 

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU06

Description: PFAS - DoD Calibration L3

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR03	PFAS -DoD Low ICAL Stock	Solution	~0	12/28/18	---	---	200 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU06

Description: PFAS - DoD Calibration L3

Stock Id: JR03

Chemical Name	Stock Amount	Initial Conc.	Density	Purity	Conv.	Final Vol	Concentration
	uL	(ug/mL)	(g/mL)		Factor	mL	(ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	200	0.01	---	---	1	10	0.00010
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	200	0.01	---	---	1	10	0.00010
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	200	0.01	---	---	1	10	0.00010
(Na) Perfluoro-1-decanesulfonate	200	0.01	---	---	1	10	0.00010
(Na) Perfluoro-1-heptanesulfonate	200	0.01	---	---	1	10	0.00010
(Na) Perfluoro-1-nonanesulfonate	200	0.01	---	---	1	10	0.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	200	0.01	---	---	1	10	0.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-1-butanefulfonic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-1-hexanesulfonic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-1-octanesulfonamide	200	0.01	---	---	1	10	0.00010
Perfluoro-1-octanesulphonic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-butanoic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-decanoic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-dodecanoic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-heptanoic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-hexanoic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-octanoic Acid	200	0.01	---	---	1	10	0.00010
Perfluorononanoic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-pentanoic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-tetradecanoic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-tridecanoic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-undecanoic acid	200	0.01	---	---	1	10	0.00010
Sodium perfluoro-1-pentanesulfonate	200	0.01	---	---	1	10	0.00010

Stock Id: JR04

Chemical Name	Stock Amount	Initial Conc.	Density	Purity	Conv.	Final Vol	Concentration
	uL	(ug/mL)	(g/mL)		Factor	mL	(ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010

Solution Prepared By: Schultz, Stephanie

Date Prepared:

3/12/2018

Expiration Date:

12/28/2018

Solution Volume

40 mL X 1

Vials Refrigerator/Freezer No:

LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_





It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU06**

Description: PFAS - DoD Calibration L3

Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: **JR06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00010
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00010
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00010
(Na) Perfluoro-1-decanesulfonate	.00010
(NA) Perfluoro-1-heptanesulfonate	.00010
(Na) Perfluoro-1-nonanesulfonate	.00010
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00010
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-buthanesulfonic Acid	.00010
Perfluoro-1-hexanesulfonic Acid	.00010
Perfluoro-1-octanesulfonamide	.00010
Perfluoro-1-octanesulphonic Acid	.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU06

Description: PFAS - DoD Calibration L3

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00010
Perfluoro-n-decanoic Acid	.00010
Perfluoro-n-dodecanoic acid	.00010
Perfluoro-n-heptanoic Acid	.00010
Perfluoro-n-hexanoic acid	.00010
Perfluoro-n-octanoic Acid	.00010
Perfluorononanoic Acid	.00010
Perfluoro-n-pentanoic acid	.00010
Perfluoro-n-tetradecanoic acid	.00010
Perfluoro-n-tridecanoic acid	.00010
Perfluoro-n-undecanoic acid	.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00010

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR03	Pipette	A1050931B
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU07

Description: PFAS - DoD Calibration L4

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR03	PFAS -DoD Low ICAL Stock	Solution	~0	12/28/18	---	---	500 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU07

Description: PFAS - DoD Calibration L4

Stock Id: JR03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	500	0.01	---	---	1	10	0.00025
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	500	0.01	---	---	1	10	0.00025
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	500	0.01	---	---	1	10	0.00025
(Na) Perfluoro-1-decanesulfonate	500	0.01	---	---	1	10	0.00025
(NA) Perfluoro-1-heptanesulfonate	500	0.01	---	---	1	10	0.00025
(Na) Perfluoro-1-nonanesulfonate	500	0.01	---	---	1	10	0.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	500	0.01	---	---	1	10	0.00025
N-methylperfluoro-1-octanesulfonamidoacetic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-1-butanefulfonic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-1-hexanesulfonic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-1-octanesulfonamide	500	0.01	---	---	1	10	0.00025
Perfluoro-1-octanesulphonic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-butanoic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-decanoic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-dodecanoic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-heptanoic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-hexanoic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-octanoic Acid	500	0.01	---	---	1	10	0.00025
Perfluorononanoic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-pentanoic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-tetradecanoic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-tridecanoic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-undecanoic acid	500	0.01	---	---	1	10	0.00025
Sodium perfluoro-1-pentanesulfonate	500	0.01	---	---	1	10	0.00025

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU07**

Description: PFAS - DoD Calibration L4

Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: **JR06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00025
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00025
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00025
(Na) Perfluoro-1-decanesulfonate	.00025
(NA) Perfluoro-1-heptanesulfonate	.00025
(Na) Perfluoro-1-nonanesulfonate	.00025
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00025
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00025
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanesulfonic Acid	.00025
Perfluoro-1-hexanesulfonic Acid	.00025
Perfluoro-1-octanesulfonamide	.00025
Perfluoro-1-octanesulphonic Acid	.00025
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU07

Description: PFAS - DoD Calibration L4

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00025
Perfluoro-n-decanoic Acid	.00025
Perfluoro-n-dodecanoic acid	.00025
Perfluoro-n-heptanoic Acid	.00025
Perfluoro-n-hexanoic acid	.00025
Perfluoro-n-octanoic Acid	.00025
Perfluorononanoic Acid	.00025
Perfluoro-n-pentanoic acid	.00025
Perfluoro-n-tetradecanoic acid	.00025
Perfluoro-n-tridecanoic acid	.00025
Perfluoro-n-undecanoic acid	.00025
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00025

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR03	Pipette	C0982448K
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU08

Description: PFAS - DoD Calibration L5

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JU03	PFAS - DoD High ICAL Stock	Solution	~0	03/12/19	---	---	100 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU08

Description: PFAS - DoD Calibration L5

## Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

## Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

## Stock Id: JU03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	100	0.05	---	---	1	10	0.00051
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	100	0.05	---	---	1	10	0.00050
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	100	0.05	---	---	1	10	0.00050
(Na) Perfluoro-1-decanesulfonate	100	0.05	---	---	1	10	0.00051
(NA) Perfluoro-1-heptanesulfonate	100	0.05	---	---	1	10	0.00050
(Na) Perfluoro-1-nonanesulfonate	100	0.05	---	---	1	10	0.00051

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU08**

Description: PFAS - DoD Calibration L5

N-ethylperfluoro-octanesulfonamidoacetic acid	100	0.05	---	---	1	10	0.00050
N-methylperfluoro-1-octanesulfonamidoacetic acid	100	0.05	---	---	1	10	0.00050
Perfluoro-1-butanefulfonic Acid	100	0.05	---	---	1	10	0.00051
Perfluoro-1-hexanesulfonic Acid	100	0.05	---	---	1	10	0.00051
Perfluoro-1-octanesulfonamide	100	0.05	---	---	1	10	0.00050
Perfluoro-1-octanesulphonic Acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-butanoic Acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-decanoic Acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-dodecanoic acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-heptanoic Acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-hexanoic acid	100	0.05	---	---	1	10	0.00051
Perfluoro-n-octanoic Acid	100	0.05	---	---	1	10	0.00050
Perfluorononanoic Acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-pentanoic acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-tetradecanoic acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-tridecanoic acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-undecanoic acid	100	0.05	---	---	1	10	0.00050
Sodium perfluoro-1-pentanesulfonate	100	0.05	---	---	1	10	0.00050

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00051
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00050
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00050
(Na) Perfluoro-1-decanesulfonate	.00051
(NA) Perfluoro-1-heptanesulfonate	.00050
(Na) Perfluoro-1-nonanesulfonate	.00051
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00050
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00050
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-]1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanefulfonic Acid	.00051
Perfluoro-1-hexanesulfonic Acid	.00051
Perfluoro-1-octanesulfonamide	.00050
Perfluoro-1-octanesulphonic Acid	.00050
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie      Date Prepared: 3/12/2018      Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU08

Description: PFAS - DoD Calibration L5

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00050
Perfluoro-n-decanoic Acid	.00050
Perfluoro-n-dodecanoic acid	.00050
Perfluoro-n-heptanoic Acid	.00050
Perfluoro-n-hexanoic acid	.00051
Perfluoro-n-octanoic Acid	.00050
Perfluorononanoic Acid	.00050
Perfluoro-n-pentanoic acid	.00050
Perfluoro-n-tetradecanoic acid	.00050
Perfluoro-n-tridecanoic acid	.00050
Perfluoro-n-undecanoic acid	.00050
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00050

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B
JU03	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU09

Description: PFAS - DoD Calibration L6

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JU03	PFAS - DoD High ICAL Stock	Solution	~0	03/12/19	---	---	200 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU09**

Description: PFAS - DoD Calibration L6

**Stock Id: JR04**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

**Stock Id: JR06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

**Stock Id: JU03**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	200	0.05	---	---	1	10	0.00101
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	200	0.05	---	---	1	10	0.00100
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	200	0.05	---	---	1	10	0.00100
(Na) Perfluoro-1-decanesulfonate	200	0.05	---	---	1	10	0.00101
(NA) Perfluoro-1-heptanesulfonate	200	0.05	---	---	1	10	0.00100
(Na) Perfluoro-1-nonanesulfonate	200	0.05	---	---	1	10	0.00101

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU09**

Description: PFAS - DoD Calibration L6

N-ethylperfluoro-octanesulfonamidoacetic acid	200	0.05	---	---	1	10	0.00100
N-methylperfluoro-1-octanesulfonamidoacetic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-1-butanefulfonic Acid	200	0.05	---	---	1	10	0.00101
Perfluoro-1-hexanesulfonic Acid	200	0.05	---	---	1	10	0.00101
Perfluoro-1-octanesulfonamide	200	0.05	---	---	1	10	0.00100
Perfluoro-1-octanesulphonic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-butanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-decanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-dodecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-heptanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-hexanoic acid	200	0.05	---	---	1	10	0.00101
Perfluoro-n-octanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluorononanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-pentanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-tetradecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-tridecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-undecanoic acid	200	0.05	---	---	1	10	0.00100
Sodium perfluoro-1-pentanesulfonate	200	0.05	---	---	1	10	0.00100

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00101
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00100
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00100
(Na) Perfluoro-1-decanesulfonate	.00101
(NA) Perfluoro-1-heptanesulfonate	.00100
(Na) Perfluoro-1-nonanesulfonate	.00101
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00100
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00100
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-]1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanefulfonic Acid	.00101
Perfluoro-1-hexanesulfonic Acid	.00101
Perfluoro-1-octanesulfonamide	.00100
Perfluoro-1-octanesulphonic Acid	.00100
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU09

Description: PFAS - DoD Calibration L6

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00100
Perfluoro-n-decanoic Acid	.00100
Perfluoro-n-dodecanoic acid	.00100
Perfluoro-n-heptanoic Acid	.00100
Perfluoro-n-hexanoic acid	.00101
Perfluoro-n-octanoic Acid	.00100
Perfluorononanoic Acid	.00100
Perfluoro-n-pentanoic acid	.00100
Perfluoro-n-tetradecanoic acid	.00100
Perfluoro-n-tridecanoic acid	.00100
Perfluoro-n-undecanoic acid	.00100
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00100

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B
JU03	Pipette	A1050931B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU10

Description: PFAS - DoD Calibration L7

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JU03	PFAS - DoD High ICAL Stock	Solution	~0	03/12/19	---	---	500 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU10

Description: PFAS - DoD Calibration L7

## Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

## Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

## Stock Id: JU03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	500	0.05	---	---	1	10	0.00253
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	500	0.05	---	---	1	10	0.00250
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	500	0.05	---	---	1	10	0.00250
(Na) Perfluoro-1-decanesulfonate	500	0.05	---	---	1	10	0.00253
(NA) Perfluoro-1-heptanesulfonate	500	0.05	---	---	1	10	0.00250
(Na) Perfluoro-1-nonanesulfonate	500	0.05	---	---	1	10	0.00253

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU10**

Description: PFAS - DoD Calibration L7

N-ethylperfluoro-octanesulfonamidoacetic acid	500	0.05	---	---	1	10	0.00250
N-methylperfluoro-1-octanesulfonamidoacetic acid	500	0.05	---	---	1	10	0.00250
Perfluoro-1-butanefulfonic Acid	500	0.05	---	---	1	10	0.00253
Perfluoro-1-hexanesulfonic Acid	500	0.05	---	---	1	10	0.00253
Perfluoro-1-octanesulfonamide	500	0.05	---	---	1	10	0.00250
Perfluoro-1-octanesulphonic Acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-butanoic Acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-decanoic Acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-dodecanoic acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-heptanoic Acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-hexanoic acid	500	0.05	---	---	1	10	0.00253
Perfluoro-n-octanoic Acid	500	0.05	---	---	1	10	0.00250
Perfluorononanoic Acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-pentanoic acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-tetradecanoic acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-tridecanoic acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-undecanoic acid	500	0.05	---	---	1	10	0.00250
Sodium perfluoro-1-pentanesulfonate	500	0.05	---	---	1	10	0.00250

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00253
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00250
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00250
(Na) Perfluoro-1-decanesulfonate	.00253
(NA) Perfluoro-1-heptanesulfonate	.00250
(Na) Perfluoro-1-nonanesulfonate	.00253
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00250
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00250
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanefulfonic Acid	.00253
Perfluoro-1-hexanesulfonic Acid	.00253
Perfluoro-1-octanesulfonamide	.00250
Perfluoro-1-octanesulphonic Acid	.00250
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU10**

Description: PFAS - DoD Calibration L7

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00250
Perfluoro-n-decanoic Acid	.00250
Perfluoro-n-dodecanoic acid	.00250
Perfluoro-n-heptanoic Acid	.00250
Perfluoro-n-hexanoic acid	.00253
Perfluoro-n-octanoic Acid	.00250
Perfluorononanoic Acid	.00250
Perfluoro-n-pentanoic acid	.00250
Perfluoro-n-tetradecanoic acid	.00250
Perfluoro-n-tridecanoic acid	.00250
Perfluoro-n-undecanoic acid	.00250
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00250

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B
JU03	Pipette	C0982448K

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU11

Description: PFAS - DoD Calibration L8

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JU03	PFAS - DoD High ICAL Stock	Solution	~0	03/12/19	---	---	1000 uL	1	5	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU11**

Description: PFAS - DoD Calibration L8

**Stock Id: JR04**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	25	0.02	---	---	1	5	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	25	0.02	---	---	1	5	0.00010
Perfluoro-1-[13C8]octanesulfonamide	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]hepetanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C5]pentanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C8]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C9]nonanoic acid	25	0.02	---	---	1	5	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	25	0.02	---	---	1	5	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	25	0.02	---	---	1	5	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	25	0.02	---	---	1	5	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	25	0.02	---	---	1	5	0.00009

**Stock Id: JR06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	25	0.02	---	---	1	5	0.00010

**Stock Id: JU03**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	1000	0.05	---	---	1	5	0.01010
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	1000	0.05	---	---	1	5	0.01000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	1000	0.05	---	---	1	5	0.01000
(Na) Perfluoro-1-decanesulfonate	1000	0.05	---	---	1	5	0.01010
(NA) Perfluoro-1-heptanesulfonate	1000	0.05	---	---	1	5	0.01000
(Na) Perfluoro-1-nonanesulfonate	1000	0.05	---	---	1	5	0.01010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU11**

Description: PFAS - DoD Calibration L8

N-ethylperfluoro-octanesulfonamidoacetic acid	1000	0.05	---	---	1	5	0.01000
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-1-butanesulfonic Acid	1000	0.05	---	---	1	5	0.01010
Perfluoro-1-hexanesulfonic Acid	1000	0.05	---	---	1	5	0.01010
Perfluoro-1-octanesulfonamide	1000	0.05	---	---	1	5	0.01000
Perfluoro-1-octanesulphonic Acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-butanoic Acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-decanoic Acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-dodecanoic acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-heptanoic Acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-hexanoic acid	1000	0.05	---	---	1	5	0.01010
Perfluoro-n-octanoic Acid	1000	0.05	---	---	1	5	0.01000
Perfluorononanoic Acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-pentanoic acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-tetradecanoic acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-tridecanoic acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-undecanoic acid	1000	0.05	---	---	1	5	0.01000
Sodium perfluoro-1-pentanesulfonate	1000	0.05	---	---	1	5	0.01000

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.01010
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.01000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.01000
(Na) Perfluoro-1-decanesulfonate	.01010
(NA) Perfluoro-1-heptanesulfonate	.01000
(Na) Perfluoro-1-nonanesulfonate	.01010
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.01000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.01000
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanesulfonic Acid	.01010
Perfluoro-1-hexanesulfonic Acid	.01010
Perfluoro-1-octanesulfonamide	.01000
Perfluoro-1-octanesulphonic Acid	.01000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: **JU11**

Description: PFAS - DoD Calibration L8

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.01000
Perfluoro-n-decanoic Acid	.01000
Perfluoro-n-dodecanoic acid	.01000
Perfluoro-n-heptanoic Acid	.01000
Perfluoro-n-hexanoic acid	.01010
Perfluoro-n-octanoic Acid	.01000
Perfluorononanoic Acid	.01000
Perfluoro-n-pentanoic acid	.01000
Perfluoro-n-tetradecanoic acid	.01000
Perfluoro-n-tridecanoic acid	.01000
Perfluoro-n-undecanoic acid	.01000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.01000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B
JU03	Pipette	C0982448K

Solution Prepared By: Schultz, Stephanie      Date Prepared: 3/12/2018      Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU12

Description: PFAS - DoD Calibration L9

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JU03	PFAS - DoD High ICAL Stock	Solution	~0	03/12/19	---	---	2000 uL	1	5	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

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It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU12**

Description: PFAS - DoD Calibration L9

**Stock Id: JR04**

Chemical Name	Stock Amount	Initial Conc.	Density	Purity	Conv.	Final Vol	Concentration
	uL	(ug/mL)	(g/mL)		Factor	mL	(ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	25	0.02	---	---	1	5	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	25	0.02	---	---	1	5	0.00010
Perfluoro-1-[13C8]octanesulfonamide	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C5]pentanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C8]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C9]nonanoic acid	25	0.02	---	---	1	5	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	25	0.02	---	---	1	5	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	25	0.02	---	---	1	5	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	25	0.02	---	---	1	5	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	25	0.02	---	---	1	5	0.00009

**Stock Id: JR06**

Chemical Name	Stock Amount	Initial Conc.	Density	Purity	Conv.	Final Vol	Concentration
	uL	(ug/mL)	(g/mL)		Factor	mL	(ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	25	0.02	---	---	1	5	0.00010

**Stock Id: JU03**

Chemical Name	Stock Amount	Initial Conc.	Density	Purity	Conv.	Final Vol	Concentration
	uL	(ug/mL)	(g/mL)		Factor	mL	(ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	2000	0.05	---	---	1	5	0.02020
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	2000	0.05	---	---	1	5	0.02000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	2000	0.05	---	---	1	5	0.02000
(Na) Perfluoro-1-decanesulfonate	2000	0.05	---	---	1	5	0.02020
(NA) Perfluoro-1-heptanesulfonate	2000	0.05	---	---	1	5	0.02000
(Na) Perfluoro-1-nonanesulfonate	2000	0.05	---	---	1	5	0.02020

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU12**

Description: PFAS - DoD Calibration L9

N-ethylperfluoro-octanesulfonamidoacetic acid	2000	0.05	---	---	1	5	0.02000
N-methylperfluoro-1-octanesulfonamidoacetic acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-1-butanefulfonic Acid	2000	0.05	---	---	1	5	0.02020
Perfluoro-1-hexanesulfonic Acid	2000	0.05	---	---	1	5	0.02020
Perfluoro-1-octanesulfonamide	2000	0.05	---	---	1	5	0.02000
Perfluoro-1-octanesulphonic Acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-butanoic Acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-decanoic Acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-dodecanoic acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-heptanoic Acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-hexanoic acid	2000	0.05	---	---	1	5	0.02020
Perfluoro-n-octanoic Acid	2000	0.05	---	---	1	5	0.02000
Perfluorononanoic Acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-pentanoic acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-tetradecanoic acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-tridecanoic acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-undecanoic acid	2000	0.05	---	---	1	5	0.02000
Sodium perfluoro-1-pentanesulfonate	2000	0.05	---	---	1	5	0.02000

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.02020
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.02000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.02000
(Na) Perfluoro-1-decanesulfonate	.02020
(NA) Perfluoro-1-heptanesulfonate	.02000
(Na) Perfluoro-1-nonanesulfonate	.02020
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.02000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.02000
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanefulfonic Acid	.02020
Perfluoro-1-hexanesulfonic Acid	.02020
Perfluoro-1-octanesulfonamide	.02000
Perfluoro-1-octanesulphonic Acid	.02000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU12

Description: PFAS - DoD Calibration L9

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.02000
Perfluoro-n-decanoic Acid	.02000
Perfluoro-n-dodecanoic acid	.02000
Perfluoro-n-heptanoic Acid	.02000
Perfluoro-n-hexanoic acid	.02020
Perfluoro-n-octanoic Acid	.02000
Perfluorononanoic Acid	.02000
Perfluoro-n-pentanoic acid	.02000
Perfluoro-n-tetradecanoic acid	.02000
Perfluoro-n-tridecanoic acid	.02000
Perfluoro-n-undecanoic acid	.02000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.02000

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B
JU03	Pipette	F0501107B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JR03

Description: PFAS -DoD Low ICAL Stock

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
171025-02	PFOA - ICAL Mix	Neat	~1.00000 0	10/17/22	---	---	500 uL	1	100	~0.0050

Solution Prepared By: Schumitz, Denise	Date Prepared: 12/28/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 4 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: \_\_\_\_\_

Comment:

Approved By: Schumitz, Denise Date: 12/28/2017 2:31:00 PM





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JR03

Description: PFAS -DoD Low ICAL Stock

Stock Id: 171025-02

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	500	1.01	1	100.000	1	100	0.00505
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	500	1.00	1	100.000	1	100	0.00500
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	500	1.00	1	100.000	1	100	0.00500
(Na) Perfluoro-1-decanesulfonate	500	1.01	1	100.000	1	100	0.00505
(NA) Perfluoro-1-heptanesulfonate	500	1.00	1	100.000	1	100	0.00500
(Na) Perfluoro-1-nonanesulfonate	500	1.01	1	100.000	1	100	0.00505
N-ethylperfluoro-octanesulfonamidoacetic acid	500	1.00	1	100.000	1	100	0.00500
N-methylperfluoro-1-octanesulfonamidoacetic acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-1-butanefulfonic Acid	500	1.01	1	100.000	1	100	0.00505
Perfluoro-1-hexanesulfonic Acid	500	1.01	1	100.000	1	100	0.00505
Perfluoro-1-octanesulfonamide	500	1.00	1	100.000	1	100	0.00500
Perfluoro-1-octanesulphonic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-butanoic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-decanoic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-dodecanoic acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-heptanoic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-hexanoic acid	500	1.01	1	100.000	1	100	0.00505
Perfluoro-n-octanoic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluorononanoic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-pentanoic acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-tetradecanoic acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-tridecanoic acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-undecanoic acid	500	1.00	1	100.000	1	100	0.00500
Sodium perfluoro-1-pentanesulfonate	500	1.00	1	100.000	1	100	0.00500

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00505
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00500
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00500
(Na) Perfluoro-1-decanesulfonate	.00505
(NA) Perfluoro-1-heptanesulfonate	.00500
(Na) Perfluoro-1-nonanesulfonate	.00505
N-ethylperfluoro-octanesulfonamidoacetic acid	.00500
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00500
Perfluoro-1-butanefulfonic Acid	.00505

Solution Prepared By: Schumitz, Denise Date Prepared: 12/28/2017 Expiration Date: 12/28/2018

Solution Volume 25 mL X 4 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment:

Approved By: Schumitz, Denise Date: 12/28/2017 2:31:00 PM



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JR03

Description: PFAS -DoD Low ICAL Stock

Perfluoro-1-hexanesulfonic Acid	.00505
Perfluoro-1-octanesulfonamide	.00500
Perfluoro-1-octanesulphonic Acid	.00500
Perfluoro-n-butanoic Acid	.00500
Perfluoro-n-decanoic Acid	.00500
Perfluoro-n-dodecanoic acid	.00500
Perfluoro-n-heptanoic Acid	.00500
Perfluoro-n-hexanoic acid	.00505
Perfluoro-n-octanoic Acid	.00500
Perfluorononanoic Acid	.00500
Perfluoro-n-pentanoic acid	.00500
Perfluoro-n-tetradecanoic acid	.00500
Perfluoro-n-tridecanoic acid	.00500
Perfluoro-n-undecanoic acid	.00500
Sodium perfluoro-1-pentanesulfonate	.00500

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
171025-02	Pipette	B1100330B

Solution Prepared By: Schumitz, Denise Date Prepared: 12/28/2017 Expiration Date: 12/28/2018

Solution Volume 25 mL X 4 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment:

Approved By: Schumitz, Denise Date: 12/28/2017 2:31:00 PM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU03

Description: PFAS - DoD High ICAL Stock

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
171025-02	PFOA - ICAL Mix	Neat	~1.00000 0	10/17/22	---	---	500 uL	1	10	~0.0500

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 3/12/2019
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124	

Balance ID: \_\_\_\_\_

Comment: 96:4 Methanol/Milli-q water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU03

Description: PFAS - DoD High ICAL Stock

Stock Id: 171025-02

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	500	1.01	1	100.000	1	10	0.05050
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	500	1.00	1	100.000	1	10	0.05000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	500	1.00	1	100.000	1	10	0.05000
(Na) Perfluoro-1-decanesulfonate	500	1.01	1	100.000	1	10	0.05050
(NA) Perfluoro-1-heptanesulfonate	500	1.00	1	100.000	1	10	0.05000
(Na) Perfluoro-1-nonanesulfonate	500	1.01	1	100.000	1	10	0.05050
N-ethylperfluoro-octanesulfonamidoacetic acid	500	1.00	1	100.000	1	10	0.05000
N-methylperfluoro-1-octanesulfonamidoacetic acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-1-butanefulfonic Acid	500	1.01	1	100.000	1	10	0.05050
Perfluoro-1-hexanesulfonic Acid	500	1.01	1	100.000	1	10	0.05050
Perfluoro-1-octanesulfonamide	500	1.00	1	100.000	1	10	0.05000
Perfluoro-1-octanesulphonic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-butanoic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-decanoic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-dodecanoic acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-heptanoic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-hexanoic acid	500	1.01	1	100.000	1	10	0.05050
Perfluoro-n-octanoic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluorononanoic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-pentanoic acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-tetradecanoic acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-tridecanoic acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-undecanoic acid	500	1.00	1	100.000	1	10	0.05000
Sodium perfluoro-1-pentanesulfonate	500	1.00	1	100.000	1	10	0.05000

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.05050
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.05000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.05000
(Na) Perfluoro-1-decanesulfonate	.05050
(NA) Perfluoro-1-heptanesulfonate	.05000
(Na) Perfluoro-1-nonanesulfonate	.05050
N-ethylperfluoro-octanesulfonamidoacetic acid	.05000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.05000
Perfluoro-1-butanefulfonic Acid	.05050

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 3/12/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124

Comment: 96:4 Methanol/Milli-q water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU03

Description: PFAS - DoD High ICAL Stock

Perfluoro-1-hexanesulfonic Acid	.05050
Perfluoro-1-octanesulfonamide	.05000
Perfluoro-1-octanesulphonic Acid	.05000
Perfluoro-n-butanoic Acid	.05000
Perfluoro-n-decanoic Acid	.05000
Perfluoro-n-dodecanoic acid	.05000
Perfluoro-n-heptanoic Acid	.05000
Perfluoro-n-hexanoic acid	.05050
Perfluoro-n-octanoic Acid	.05000
Perfluorononanoic Acid	.05000
Perfluoro-n-pentanoic acid	.05000
Perfluoro-n-tetradecanoic acid	.05000
Perfluoro-n-tridecanoic acid	.05000
Perfluoro-n-undecanoic acid	.05000
Sodium perfluoro-1-pentanesulfonate	.05000

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
171025-02	Pipette	C0982448K

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 3/12/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124

Comment: 96:4 Methanol/Milli-q water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JR04

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
170629-02	Mass-labelled PFAS Extraction Standard Solution	Neat	~1.00000 0	05/19/22	---	---	1000 uL	1	50	~0.0200

Solution Prepared By: Schumitz, Denise	Date Prepared: 12/28/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 2 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: \_\_\_\_\_

Comment: 96:4 Methanol: Millipore

Approved By: Schumitz, Denise Date: 1/10/2018 12:00:00 PM





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JR04

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

Stock Id: 170629-02

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	1000	1.00	1	100.000	1	50	0.02000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-1-[13C8]octanesulfonamide	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2-13C2]dodecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2-13C2]tetradecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C5]pentanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C8]octanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C9]nonanoic acid	1000	1.00	1	100.000	1	50	0.02000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	1000	0.96	1	100.000	1	50	0.01916
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	1000	0.94	1	100.000	1	50	0.01870
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	1000	0.95	1	100.000	1	50	0.01898
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	1000	0.95	1	100.000	1	50	0.01892
Sodium perfluoro-1-[13C8]octanesulfonate	1000	0.96	1	100.000	1	50	0.01914
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	1000	0.93	1	100.000	1	50	0.01858

## Final Concentrations:

Analyte:	Conc (ug/mL):
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.02000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.02000
Perfluoro-1-[13C8]octanesulfonamide	.02000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.02000
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.02000
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.02000
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.02000
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.02000
Perfluoro-n-[1,2-13C2]dodecanoic acid	.02000
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.02000
Perfluoro-n-[13C5]pentanoic acid	.02000
Perfluoro-n-[13C8]octanoic acid	.02000
Perfluoro-n-[13C9]nonanoic acid	.02000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.01916

Solution Prepared By: Schumitz, Denise Date Prepared: 12/28/2017 Expiration Date: 12/28/2018

Solution Volume 25 mL X 2 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 Methanol: Millipore

Approved By: Schumitz, Denise Date: 1/10/2018 12:00:00 PM

**BATTELLE**

It can be done

**Standard Solution Concentrations**Approved: **Standard Laboratory ID Number: JR04****Description:** PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.01870
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.01898
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.01892
Sodium perfluoro-1-[13C8]octanesulfonate	.01914
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.01858

**Syringes/Pipettes:**

<b>Solution Prepared By:</b> Schumitz, Denise	<b>Date Prepared:</b> 12/28/2017	<b>Expiration Date:</b> 12/28/2018
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<b>Solution Volume</b> 25 mL X 2 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Room - M0151
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**Comment:** 96:4 Methanol: Millipore

**Approved By:** Schumitz, Denise **Date:** 1/10/2018 12:00:00 PM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JR06

Description: PFAS - DoD Internal Standard Stock Solution

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
170629-03	Mass-labeled PFAS Injection Standards Solution	Neat	~2.00000 0	05/02/22	---	---	1000 uL	1	100	~0.0200

Solution Prepared By: Schumitz, Denise	Date Prepared: 12/28/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 4 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: \_\_\_\_\_

Comment: 96:4 Methanol:Millipore

Approved By: Schumitz, Denise Date: 12/28/2017 2:31:00 PM

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**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JR06**

Description: PFAS - DoD Internal Standard Stock Solution

Stock Id: **170629-03**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	1000	1.91	1	100.000	1	100	0.01910
Perfluoro-n-[1,2-13C2]decanoic acid	1000	2.00	1	100.000	1	100	0.02000
Perfluoro-n-[1,2-13C2]octanoic acid	1000	2.00	1	100.000	1	100	0.02000
Perfluoro-n-[2,3,4-13C3]butanoic Acid	1000	2.00	1	100.000	1	100	0.02000

## Final Concentrations:

Analyte:	Conc (ug/mL):
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.01910
Perfluoro-n-[1,2-13C2]decanoic acid	.02000
Perfluoro-n-[1,2-13C2]octanoic acid	.02000
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.02000

## Syringes/Pipettes:

Solution Prepared By: Schumitz, Denise Date Prepared: 12/28/2017 Expiration Date: 12/28/2018

Solution Volume 25 mL X 4 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 Methanol:Millipore

Approved By: Schumitz, Denise Date: 12/28/2017 2:31:00 PM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU13

Description: PFAS -DoD ICC

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JP49	PFAS - DOD Second Source LCS/MS Solution	Solution	~0	11/03/18	---	---	200 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 11/3/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU13

Description: PFAS -DoD ICC

Stock Id: JP49

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	200	0.05	---	---	1	10	0.00101
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	200	0.05	---	---	1	10	0.00100
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	200	0.05	---	---	1	10	0.00100
(Na) Perfluoro-1-decanesulfonate	200	0.05	---	---	1	10	0.00101
(NA) Perfluoro-1-heptanesulfonate	200	0.05	---	---	1	10	0.00100
(Na) Perfluoro-1-nonanesulfonate	200	0.05	---	---	1	10	0.00101
N-ethylperfluoro-octanesulfonamidoacetic acid	200	0.05	---	---	1	10	0.00100
N-methylperfluoro-1-octanesulfonamidoacetic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-1-butanefulfonic Acid	200	0.05	---	---	1	10	0.00101
Perfluoro-1-hexanesulfonic Acid	200	0.05	---	---	1	10	0.00101
Perfluoro-1-octanesulfonamide	200	0.05	---	---	1	10	0.00100
Perfluoro-1-octanesulphonic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-butanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-decanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-dodecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-heptanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-hexanoic acid	200	0.05	---	---	1	10	0.00101
Perfluoro-n-octanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluorononanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-pentanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-tetradecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-tridecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-undecanoic acid	200	0.05	---	---	1	10	0.00100
Sodium perfluoro-1-pentanesulfonate	200	0.05	---	---	1	10	0.00100

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010

Solution Prepared By: Schultz, Stephanie

Date Prepared:

3/12/2018

Expiration Date:

11/3/2018

Solution Volume

40 mL X 1

Vials

Refrigerator/Freezer No:

LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU13**

Description: PFAS -DoD ICC

Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: **JR06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00101
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00100
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00100
(Na) Perfluoro-1-decanesulfonate	.00101
(NA) Perfluoro-1-heptanesulfonate	.00100
(Na) Perfluoro-1-nonanesulfonate	.00101
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00100
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00100
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanefulfonic Acid	.00101
Perfluoro-1-hexanesulfonic Acid	.00101
Perfluoro-1-octanesulfonamide	.00100
Perfluoro-1-octanesulphonic Acid	.00100
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 11/3/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: **JU13**

Description: PFAS -DoD ICC

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00100
Perfluoro-n-decanoic Acid	.00100
Perfluoro-n-dodecanoic acid	.00100
Perfluoro-n-heptanoic Acid	.00100
Perfluoro-n-hexanoic acid	.00101
Perfluoro-n-octanoic Acid	.00100
Perfluorononanoic Acid	.00100
Perfluoro-n-pentanoic acid	.00100
Perfluoro-n-tetradecanoic acid	.00100
Perfluoro-n-tridecanoic acid	.00100
Perfluoro-n-undecanoic acid	.00100
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00100

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JP49	Pipette	A1050931B
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 11/3/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JP83

Description: PFAS - DoD Instrument Blank

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JM18	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	07/05/18	---	---	50 uL	1	10	~0.0000
JM20	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/05/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schumitz, Denise	Date Prepared: 11/21/2017	Expiration Date: 11/21/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: \_\_\_\_\_

Comment: 80:20 MeOH/Millipore water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JP83

Description: PFAS - DoD Instrument Blank

## Stock Id: JM18

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

## Stock Id: JM20

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

## Final Concentrations:

Analyte:	Conc (ug/mL):
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schumitz, Denise

Date Prepared: 11/21/2017

Expiration Date: 11/21/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 80:20 MeOH/Millipore water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JP83**

Description: PFAS - DoD Instrument Blank

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009

Syringes/Pipettes:

Solution Prepared By: Schumitz, Denise Date Prepared: 11/21/2017 Expiration Date: 11/21/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 80:20 MeOH/Millipore water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JM18

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
170629-02	Mass-labelled PFAS Extraction Standard Solution	Neat	~1.00000 0	05/19/22	---	---	1000 uL	1	50	~0.0200

Solution Prepared By: Schumitz, Denise	Date Prepared: 7/5/2017	Expiration Date: 7/5/2018
Solution Volume 25 mL X 2 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: \_\_\_\_\_

Comment: 96:4 Methanol:water

Approved By: Thorn, Jonathan Date: 7/7/2017 9:26:00 AM





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JM18

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

Stock Id: 170629-02

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	1000	1.00	1	100.000	1	50	0.02000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-1-[13C8]octanesulfonamide	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4-13C4]hepetanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2-13C2]dodecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2-13C2]tetradecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C5]pentanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C8]octanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C9]nonanoic acid	1000	1.00	1	100.000	1	50	0.02000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	1000	0.96	1	100.000	1	50	0.01916
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	1000	0.94	1	100.000	1	50	0.01870
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	1000	0.95	1	100.000	1	50	0.01898
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	1000	0.95	1	100.000	1	50	0.01892
Sodium perfluoro-1-[13C8]octanesulfonate	1000	0.96	1	100.000	1	50	0.01914
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	1000	0.93	1	100.000	1	50	0.01858

## Final Concentrations:

Analyte:	Conc (ug/mL):
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.02000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.02000
Perfluoro-1-[13C8]octanesulfonamide	.02000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.02000
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.02000
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.02000
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.02000
Perfluoro-n-[1,2,3,4-13C4]hepetanoic acid	.02000
Perfluoro-n-[1,2-13C2]dodecanoic acid	.02000
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.02000
Perfluoro-n-[13C5]pentanoic acid	.02000
Perfluoro-n-[13C8]octanoic acid	.02000
Perfluoro-n-[13C9]nonanoic acid	.02000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.01916

Solution Prepared By: Schumitz, Denise Date Prepared: 7/5/2017 Expiration Date: 7/5/2018

Solution Volume 25 mL X 2 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 Methanol:water

Approved By: Thorn, Jonathan Date: 7/7/2017 9:26:00 AM

**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JM18**

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.01870
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.01898
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.01892
Sodium perfluoro-1-[13C8]octanesulfonate	.01914
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.01858

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
170629-02	Pipette	C0982448K

Solution Prepared By: Schumitz, Denise Date Prepared: 7/5/2017 Expiration Date: 7/5/2018

Solution Volume 25 mL X 2 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 Methanol:water

Approved By: Thorn, Jonathan Date: 7/7/2017 9:26:00 AM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JM20

Description: PFAS - DoD Internal Standard Stock Solution

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
170629-03	Mass-labeled PFAS Injection Standards Solution	Neat	~2.00000 0	05/02/22	---	---	1000 uL	1	100	~0.0200

Solution Prepared By: Schumitz, Denise	Date Prepared: 7/5/2017	Expiration Date: 7/5/2018
Solution Volume 25 mL X 4 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: \_\_\_\_\_

Comment: 96:4 methanol:water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JM20

Description: PFAS - DoD Internal Standard Stock Solution

Stock Id: 170629-03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	1000	1.91	1	100.000	1	100	0.01910
Perfluoro-n-[1,2-13C2]decanoic acid	1000	2.00	1	100.000	1	100	0.02000
Perfluoro-n-[1,2-13C2]octanoic acid	1000	2.00	1	100.000	1	100	0.02000
Perfluoro-n-[2,3,4-13C3]butanoic Acid	1000	2.00	1	100.000	1	100	0.02000

## Final Concentrations:

Analyte:	Conc (ug/mL):
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.01910
Perfluoro-n-[1,2-13C2]decanoic acid	.02000
Perfluoro-n-[1,2-13C2]octanoic acid	.02000
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.02000

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
170629-03	Pipette	C0982448K

Solution Prepared By: Schumitz, Denise Date Prepared: 7/5/2017 Expiration Date: 7/5/2018

Solution Volume 25 mL X 4 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 methanol:water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU02

Description: PFAS - DoD Branched Standard

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JJ40	PFAS - Branched Stock	Solution	~0	09/24/19	---	---	1250 uL	1	5	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124	

Balance ID: \_\_\_\_\_

Comment: 80:20 MeOH/Millipore water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU02

Description: PFAS - DoD Branched Standard

## Stock Id: JJ40

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
br-PFHxSK	1250	0.01	---	---	1	5	0.00150
br-PFOSK	1250	0.01	---	---	1	5	0.00150
ipPFNA	1250	0.01	---	---	1	5	0.00150
ipPFNS	1250	0.01	---	---	1	5	0.00150
NaP3MFpS	1250	0.01	---	---	1	5	0.00150
NaP6MHpS	1250	0.01	---	---	1	5	0.00150
P355TMHxA	1250	0.01	---	---	1	5	0.00150
P37DMOA	1250	0.01	---	---	1	5	0.00150
P3MHpA	1250	0.01	---	---	1	5	0.00150
P4MOA	1250	0.01	---	---	1	5	0.00150
T-PFOA	1250	0.01	---	---	1	5	0.00150

## Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	25	0.02	---	---	1	5	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	25	0.02	---	---	1	5	0.00010
Perfluoro-1-[13C8]octanesulfonamide	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C5]pentanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C8]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C9]nonanoic acid	25	0.02	---	---	1	5	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	25	0.02	---	---	1	5	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	25	0.02	---	---	1	5	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	25	0.02	---	---	1	5	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	25	0.02	---	---	1	5	0.00009

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124

Comment: 80:20 MeOH/Millipore water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU38

Description: PFAS - DoD Branched Standard

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000
JJ40	PFAS - Branched Stock	Solution	~0	09/24/19	---	---	2080 uL	1	5	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/27/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124	

Balance ID: \_\_\_\_\_

Comment: 80/20 methanol/milli-q water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU38

Description: PFAS - DoD Branched Standard

Stock Id: JJ40

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
br-PFHxSK	2080	0.01	---	---	1	5	0.00250
br-PFOSK	2080	0.01	---	---	1	5	0.00250
ipPFNA	2080	0.01	---	---	1	5	0.00250
ipPFNS	2080	0.01	---	---	1	5	0.00250
NaP3MFpS	2080	0.01	---	---	1	5	0.00250
NaP6MHpS	2080	0.01	---	---	1	5	0.00250
P355TMHxA	2080	0.01	---	---	1	5	0.00250
P37DMOA	2080	0.01	---	---	1	5	0.00250
P3MHpA	2080	0.01	---	---	1	5	0.00250
P4MOA	2080	0.01	---	---	1	5	0.00250
T-PFOA	2080	0.01	---	---	1	5	0.00250

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	25	0.02	---	---	1	5	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	25	0.02	---	---	1	5	0.00010
Perfluoro-1-[13C8]octanesulfonamide	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C5]pentanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C8]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C9]nonanoic acid	25	0.02	---	---	1	5	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	25	0.02	---	---	1	5	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	25	0.02	---	---	1	5	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	25	0.02	---	---	1	5	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	25	0.02	---	---	1	5	0.00009

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/27/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124

Comment: 80/20 methanol/milli-q water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JU38

Description: PFAS - DoD Branched Standard

Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	25	0.02	---	---	1	5	0.00010

## Final Concentrations:

Analyte:	Conc (ug/mL):
br-PFHxSK	.00250
br-PFOSK	.00250
ipPFNA	.00250
ipPFNS	.00250
NaP3MFpS	.00250
NaP6MHpS	.00250
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
P355TMHxA	.00250
P37DMOA	.00250
P3MHpA	.00250
P4MOA	.00250
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]hepetanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/27/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124

Comment: 80/20 methanol/milli-q water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

## Standard Solution Concentrations

Approved:

**Standard Laboratory ID Number:** JU38

**Description:** PFAS - DoD Branched Standard

sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
T-PFOA	.00250

### Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

**Solution Prepared By:** Schultz, Stephanie      **Date Prepared:** 3/27/2018      **Expiration Date:** 12/28/2018

**Solution Volume** 40 mL X 1 Vials      **Refrigerator/Freezer No:** AgChem Laboratory: Refrigerator - R0124

**Comment:** 80/20 methanol/milli-q water

**Approved By:** \_\_\_\_\_ **Date:** \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JJ40

Description: PFAS - Branched Stock

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JH20	PFAS Branched	Solution	~2	09/24/19	---	---	75 uL	1	25	~0.0060

Solution Prepared By: Schumitz, Denise	Date Prepared: 3/29/2017	Expiration Date: 9/24/2019
Solution Volume 25 mL X 1 Vials	Refrigerator/Freezer No: AgChem Laboratory: Room - M0150	

Balance ID: \_\_\_\_\_

Comment: 96:4 Methanol:MilliQ (RP-170329-1)

Override On:	Expires:	Comment
03/12/18 DMS	09/24/19	Date extended due to manufacturers exp. Dat

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JJ40

Description: PFAS - Branched Stock

Stock ID: JH20

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
br-PFHxSK	75	2.00	---	---	1	25	0.00600
br-PFOSK	75	2.00	---	---	1	25	0.00600
ipPFNA	75	2.00	---	---	1	25	0.00600
ipPFNS	75	2.00	---	---	1	25	0.00600
NaP3MFpS	75	2.00	---	---	1	25	0.00600
NaP6MHpS	75	2.00	---	---	1	25	0.00600
P355TMHxA	75	2.00	---	---	1	25	0.00600
P37DMOA	75	2.00	---	---	1	25	0.00600
P3MHpA	75	2.00	---	---	1	25	0.00600
P4MOA	75	2.00	---	---	1	25	0.00600
T-PFOA	75	2.00	---	---	1	25	0.00600

## Final Concentrations:

Analyte:	Conc (ug/mL):
br-PFHxSK	.00600
br-PFOSK	.00600
ipPFNA	.00600
ipPFNS	.00600
NaP3MFpS	.00600
NaP6MHpS	.00600
P355TMHxA	.00600
P37DMOA	.00600
P3MHpA	.00600
P4MOA	.00600
T-PFOA	.00600

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JH20	Pipette	I0793912B

Solution Prepared By: Schumitz, Denise Date Prepared: 3/29/2017 Expiration Date: 9/24/2019

Solution Volume 25 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Room - M0150

Comment: 96:4 Methanol:MilliQ (RP-170329-1)

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JH20

Description: PFAS Branched

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
161230-01	br-PFHxSK	Neat	~50.0000 00	07/03/20	---	---	400 uL	1	10	~2.0000
161230-02	br-PFOSK	Neat	~50.0000 00	10/14/20	---	---	400 uL	1	10	~2.0000
161230-04	NaP3MHpS	Neat	~50.0000 00	06/10/20	---	---	400 uL	1	10	~2.0000
161230-05	NaP6MHpS	Neat	~50.0000 00	01/23/20	---	---	400 uL	1	10	~2.0000
161230-06	ipPFNS	Neat	~50.0000 00	09/23/20	---	---	400 uL	1	10	~2.0000
161230-07	T-PFOA	Neat	~50.0000 00	02/12/21	---	---	400 uL	1	10	~2.0000
161230-08	P3MHpA	Neat	~50.0000 00	06/10/20	---	---	400 uL	1	10	~2.0000
161230-09	P4MOA	Neat	~50.0000 00	06/10/20	---	---	400 uL	1	10	~2.0000
161230-10	ipPFNA	Neat	~50.0000 00	05/31/21	---	---	400 uL	1	10	~2.0000
161230-11	P355TMHxA	Neat	~50.0000 00	11/27/19	---	---	400 uL	1	10	~2.0000

Solution Prepared By: Schultz, Stephanie      Date Prepared: 2/1/2017      Expiration Date: 9/24/2019  
 Solution Volume 40 mL X 1 Vials      Refrigerator/Freezer No: AgChem Laboratory: Cabinet - C0144

Balance ID: \_\_\_\_\_  
 Comment:

Solvent: \_\_\_\_\_ Lot: \_\_\_\_\_  
 Methanol      166003

Override On: \_\_\_\_\_ Expires: \_\_\_\_\_ Comment: \_\_\_\_\_  
 03/12/18 DMS      09/24/19      Date extended due to manufacturers exp. Dat

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JH20

Description: PFAS Branched

161230-12	P37DMOA	Neat	~50.0000 00	09/24/19	---	---	400 uL	1	10	~2.0000
-----------	---------	------	----------------	----------	-----	-----	--------	---	----	---------

Solution Prepared By: Schultz, Stephanie	Date Prepared: 2/1/2017	Expiration Date: 9/24/2019
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: AgChem Laboratory: Cabinet - C0144	

Balance ID: \_\_\_\_\_  
 Comment:

Solvent:	Lot:
Methanol	166003

Override On:	Expires:	Comment
03/12/18 DMS	09/24/19	Date extended due to manufacturers exp. Dat

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JH20

Description: PFAS Branched

Stock Id: 161230-01							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
br-PFHxSK	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-02							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
br-PFOSK	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-04							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
NaP3MFpS	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-05							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
NaP6MHPs	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-06							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
ipPFNS	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-07							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
T-PFOA	400	50.00	1	97.000	1	10	2.00000
Stock Id: 161230-08							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
P3MHPA	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-09							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
P4MOA	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-10							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
ipPFNA	400	50.00	1	98.000	1	10	2.00000

Solution Prepared By: Schultz, Stephanie

Date Prepared:

2/1/2017

Expiration Date:

9/24/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Cabinet - C0144

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JH20

Description: PFAS Branched

## Stock Id: 161230-11

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
P355TMHxA	400	50.00	1	98.000	1	10	2.00000

## Stock Id: 161230-12

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
P37DMOA	400	50.00	1	98.000	1	10	2.00000

## Final Concentrations:

Analyte:	Conc (ug/mL):
br-PFHxSK	2.00000
br-PFOSK	2.00000
ipPFNA	2.00000
ipPFNS	2.00000
NaP3MFpS	2.00000
NaP6MHpS	2.00000
P355TMHxA	2.00000
P37DMOA	2.00000
P3MHpA	2.00000
P4MOA	2.00000
T-PFOA	2.00000

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
161230-01	Pipette	B1100330B
161230-02	Pipette	B1100330B
161230-04	Pipette	B1100330B
161230-05	Pipette	B1100330B
161230-06	Pipette	B1100330B
161230-07	Pipette	B1100330B
161230-08	Pipette	B1100330B
161230-09	Pipette	B1100330B
161230-10	Pipette	B1100330B
161230-11	Pipette	B1100330B
161230-12	Pipette	B1100330B

Solution Prepared By: Schultz, Stephanie Date Prepared: 2/1/2017 Expiration Date: 9/24/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Cabinet - C0144

Comment:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JR05

Description: PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	2500 uL	1	25	~0.0000

Solution Prepared By: Schumitz, Denise	Date Prepared: 12/28/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: \_\_\_\_\_

Comment: 96:4 Methanol:Millipore

Approved By: Schumitz, Denise Date: 1/10/2018 12:00:00 PM



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JR05

Description: PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	2500	0.02	---	---	1	25	0.00200
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	2500	0.02	---	---	1	25	0.00200
Perfluoro-1-[13C8]octanesulfonamide	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2-13C2]dodecanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2-13C2]tetradecanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[13C5]pentanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[13C8]octanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[13C9]nonanoic acid	2500	0.02	---	---	1	25	0.00200
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	2500	0.02	---	---	1	25	0.00192
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	2500	0.02	---	---	1	25	0.00187
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	2500	0.02	---	---	1	25	0.00190
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	2500	0.02	---	---	1	25	0.00189
Sodium perfluoro-1-[13C8]octanesulfonate	2500	0.02	---	---	1	25	0.00191
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	2500	0.02	---	---	1	25	0.00186

## Final Concentrations:

Analyte:	Conc (ug/mL):
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00200
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00200
Perfluoro-1-[13C8]octanesulfonamide	.00200
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00200
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00200
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00200
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00200
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00200
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00200
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00200
Perfluoro-n-[13C5]pentanoic acid	.00200
Perfluoro-n-[13C8]octanoic acid	.00200
Perfluoro-n-[13C9]nonanoic acid	.00200
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00192

Solution Prepared By: Schumitz, Denise Date Prepared: 12/28/2017 Expiration Date: 12/28/2018

Solution Volume 25 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 Methanol:Millipore

Approved By: Schumitz, Denise Date: 1/10/2018 12:00:00 PM

**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: **Standard Laboratory ID Number: JR05****Description:** PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)

sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00187
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00190
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00189
Sodium perfluoro-1-[13C8]octanesulfonate	.00191
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00186

**Syringes/Pipettes:**

<b>Solution Prepared By:</b> Schumitz, Denise	<b>Date Prepared:</b> 12/28/2017	<b>Expiration Date:</b> 12/28/2018
<b>Solution Volume</b> 25 mL X 1 <b>Vials Refrigerator/Freezer No:</b> LC Laboratory: Room - M0151		

**Comment:** 96:4 Methanol:Millipore**Approved By:** Schumitz, Denise **Date:** 1/10/2018 12:00:00 PM





It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JR08

Description: PFAS - DoD Internal Standard Spiking Solution

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	2500 uL	1	25	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 12/29/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: \_\_\_\_\_

Comment: 96:4 methanol:water

Approved By: Schumitz, Denise Date: 12/29/2017 10:10:00 AM

**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JR08**

Description: PFAS - DoD Internal Standard Spiking Solution

Stock Id: **JR06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	2500	0.02	---	---	1	25	0.00191
Perfluoro-n-[1,2-13C2]decanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2-13C2]octanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[2,3,4-13C3]butanoic Acid	2500	0.02	---	---	1	25	0.00200

## Final Concentrations:

Analyte:	Conc (ug/mL):
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00191
Perfluoro-n-[1,2-13C2]decanoic acid	.00200
Perfluoro-n-[1,2-13C2]octanoic acid	.00200
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00200

## Syringes/Pipettes:

Solution Prepared By: Schultz, Stephanie      Date Prepared: 12/29/2017      Expiration Date: 12/28/2018

Solution Volume 25 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 methanol:water

Approved By: Schumitz, Denise      Date: 12/29/2017 10:10:00 AM





It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: **JP88**

Description: PFAS - Second Source Low Level Fortification

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JP49	PFAS - DOD Second Source LCS/MS Solution	Solution	~0	11/03/18	---	---	1000 uL	1	10	~0.0000

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 11/28/2017	<b>Expiration Date:</b> 11/3/2018
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> AgChem Laboratory: Room - M0150	

Balance ID: \_\_\_\_\_

Comment: 80/20 methanol/milli-q water

Approved By: Schumitz, Denise Date: 11/28/2017 11:25:00 AM

Page 583 of 605



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JP88

Description: PFAS - Second Source Low Level Fortification

Stock Id: JP49

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	1000	0.05	---	---	1	10	0.00505
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	1000	0.05	---	---	1	10	0.00500
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	1000	0.05	---	---	1	10	0.00500
(Na) Perfluoro-1-decanesulfonate	1000	0.05	---	---	1	10	0.00505
(NA) Perfluoro-1-heptanesulfonate	1000	0.05	---	---	1	10	0.00500
(Na) Perfluoro-1-nonanesulfonate	1000	0.05	---	---	1	10	0.00505
N-ethylperfluoro-octanesulfonamidoacetic acid	1000	0.05	---	---	1	10	0.00500
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-1-butanefulfonic Acid	1000	0.05	---	---	1	10	0.00505
Perfluoro-1-hexanesulfonic Acid	1000	0.05	---	---	1	10	0.00505
Perfluoro-1-octanesulfonamide	1000	0.05	---	---	1	10	0.00500
Perfluoro-1-octanesulphonic Acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-butanoic Acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-decanoic Acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-dodecanoic acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-heptanoic Acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-hexanoic acid	1000	0.05	---	---	1	10	0.00505
Perfluoro-n-octanoic Acid	1000	0.05	---	---	1	10	0.00500
Perfluorononanoic Acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-pentanoic acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-tetradecanoic acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-tridecanoic acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-undecanoic acid	1000	0.05	---	---	1	10	0.00500
Sodium perfluoro-1-pentanesulfonate	1000	0.05	---	---	1	10	0.00500

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00505
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00500
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00500
(Na) Perfluoro-1-decanesulfonate	.00505
(NA) Perfluoro-1-heptanesulfonate	.00500
(Na) Perfluoro-1-nonanesulfonate	.00505
N-ethylperfluoro-octanesulfonamidoacetic acid	.00500
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00500
Perfluoro-1-butanefulfonic Acid	.00505

Solution Prepared By: Schultz, Stephanie Date Prepared: 11/28/2017 Expiration Date: 11/3/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Room - M0150

Comment: 80/20 methanol/milli-q water

Approved By: Schumitz, Denise Date: 11/28/2017 11:25:00 AM

**BATTELLE**

It can be done

**Standard Solution Concentrations**Approved: **Standard Laboratory ID Number: JP88****Description:** PFAS - Second Source Low Level Fortification

Perfluoro-1-hexanesulfonic Acid	.00505
Perfluoro-1-octanesulfonamide	.00500
Perfluoro-1-octanesulphonic Acid	.00500
Perfluoro-n-butanoic Acid	.00500
Perfluoro-n-decanoic Acid	.00500
Perfluoro-n-dodecanoic acid	.00500
Perfluoro-n-heptanoic Acid	.00500
Perfluoro-n-hexanoic acid	.00505
Perfluoro-n-octanoic Acid	.00500
Perfluorononanoic Acid	.00500
Perfluoro-n-pentanoic acid	.00500
Perfluoro-n-tetradecanoic acid	.00500
Perfluoro-n-tridecanoic acid	.00500
Perfluoro-n-undecanoic acid	.00500
Sodium perfluoro-1-pentanesulfonate	.00500

**Syringes/Pipettes:**

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 11/28/2017	<b>Expiration Date:</b> 11/3/2018
<b>Solution Volume</b> 40 mL X 1 <b>Vials Refrigerator/Freezer No:</b> AgChem Laboratory: Room - M0150		

**Comment:** 80/20 methanol/milli-q water**Approved By:** Schumitz, Denise **Date:** 11/28/2017 11:25:00 AM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JP49

Description: PFAS - DOD Second Source LCS/MS Solution

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
171025-01	PFOA - 2nd Source	Neat	~1.00000 0	03/22/22	---	---	1000 uL	1	20	~0.0500

Solution Prepared By: Schumitz, Denise	Date Prepared: 11/3/2017	Expiration Date: 11/3/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: \_\_\_\_\_

Comment: 80:20 MeOH/ Milli-Q

Approved By: Schumitz, Denise Date: 11/7/2017 11:11:00 AM





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JP49

Description: PFAS - DOD Second Source LCS/MS Solution

Stock Id: 171025-01

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	1000	1.01	1	100.000	1	20	0.05050
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	1000	1.00	1	100.000	1	20	0.05000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	1000	1.00	1	100.000	1	20	0.05000
(Na) Perfluoro-1-decanesulfonate	1000	1.01	1	100.000	1	20	0.05050
(NA) Perfluoro-1-heptanesulfonate	1000	1.00	1	100.000	1	20	0.05000
(Na) Perfluoro-1-nonanesulfonate	1000	1.01	1	100.000	1	20	0.05050
N-ethylperfluoro-octanesulfonamidoacetic acid	1000	1.00	1	100.000	1	20	0.05000
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-1-butanefulfonic Acid	1000	1.01	1	100.000	1	20	0.05050
Perfluoro-1-hexanesulfonic Acid	1000	1.01	1	100.000	1	20	0.05050
Perfluoro-1-octanesulfonamide	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-1-octanesulphonic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-butanoic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-decanoic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-dodecanoic acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-heptanoic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-hexanoic acid	1000	1.01	1	100.000	1	20	0.05050
Perfluoro-n-octanoic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluorononanoic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-pentanoic acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-tetradecanoic acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-tridecanoic acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-undecanoic acid	1000	1.00	1	100.000	1	20	0.05000
Sodium perfluoro-1-pentanesulfonate	1000	1.00	1	100.000	1	20	0.05000

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.05050
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.05000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.05000
(Na) Perfluoro-1-decanesulfonate	.05050
(NA) Perfluoro-1-heptanesulfonate	.05000
(Na) Perfluoro-1-nonanesulfonate	.05050
N-ethylperfluoro-octanesulfonamidoacetic acid	.05000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.05000
Perfluoro-1-butanefulfonic Acid	.05050

Solution Prepared By: Schumitz, Denise Date Prepared: 11/3/2017 Expiration Date: 11/3/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 80:20 MeOH/ Milli-Q

Approved By: Schumitz, Denise Date: 11/7/2017 11:11:00 AM

**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JP49**

Description: PFAS - DOD Second Source LCS/MS Solution

Perfluoro-1-hexanesulfonic Acid	.05050
Perfluoro-1-octanesulfonamide	.05000
Perfluoro-1-octanesulphonic Acid	.05000
Perfluoro-n-butanoic Acid	.05000
Perfluoro-n-decanoic Acid	.05000
Perfluoro-n-dodecanoic acid	.05000
Perfluoro-n-heptanoic Acid	.05000
Perfluoro-n-hexanoic acid	.05050
Perfluoro-n-octanoic Acid	.05000
Perfluorononanoic Acid	.05000
Perfluoro-n-pentanoic acid	.05000
Perfluoro-n-tetradecanoic acid	.05000
Perfluoro-n-tridecanoic acid	.05000
Perfluoro-n-undecanoic acid	.05000
Sodium perfluoro-1-pentanesulfonate	.05000

Syringes/Pipettes:

Solution Prepared By: Schumitz, Denise Date Prepared: 11/3/2017 Expiration Date: 11/3/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 80:20 MeOH/ Milli-Q

Approved By: Schumitz, Denise Date: 11/7/2017 11:11:00 AM



# BATTELLE DETECTION LIMITS FOR PFAS IN NON-POTABLE WATER

Analytical SOP 5-369

Extraction SOP 5-370

EPA 537 MOD DoD QSM 5.1 Compliant with Table B-15 requirements

Analyte	CAS No.	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
<b>PFBA</b>	375-22-4	0.14	0.5	5.0
<b>PFPeA</b>	2706-90-3	0.31	1.0	5.0
<b>PFHxA</b>	307-24-4	0.19	0.5	5.0
<b>PFHpA</b>	375-85-9	0.16	0.5	5.0
<b>PFOA</b>	335-67-1	0.18	0.5	5.0
<b>PFNA</b>	375-95-1	0.26	1.0	5.0
<b>PFDA</b>	335-76-2	0.16	0.5	5.0
<b>PFUnA</b>	2058-94-8	0.29	1.0	5.0
<b>PFDoA</b>	307-55-1	0.18	0.5	5.0
<b>PFTTrDA</b>	72629-94-8	0.15	0.5	5.0
<b>PFTeDA</b>	376-06-7	0.25	1.0	5.0
<b>NMeFOSAA</b>	2355-31-9	0.56	2.5	5.0
<b>NEtFOSAA</b>	2991-50-6	0.49	1.0	5.0
PFOSA	754-91-6	TBD	TBD	TBD
<b>PFBS</b>	375-73-5	0.13	0.5	5.0
PFPeS	BDO-2114	0.67	2.5	5.0
<b>PFHxS</b>	355-46-4	0.11	0.5	5.0
<b>PFHpS</b>	375-99-6	0.20	0.5	5.0
<b>PFOS</b>	1763-23-1	0.19	0.5	5.0
PFNS	98789-57-2	0.46	1.0	5.0
<b>PFDS</b>	2806-15-7	0.17	0.5	5.0
<b>4:2FTS</b>	BDO-2205	0.14	0.5	5.0
<b>6:2FTS</b>	27619-97-2	1.36	2.5	5.0
<b>8:2FTS</b>	39108-34-4	0.22	0.5	5.0

Analytes on ELAP QSM 5.1 Scope of accreditation



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	JP83 IB			
Battelle ID	JP83 IB_03/28/2018			
Sample Type	IB			
Collection Date	NA			
Extraction Date	NA			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	NA			
Sample Size	NA			
Size Unit-Basis	NA			
Units	ng/L	LOD	LOQ	
PFBA	0.20	0.50	5.00	
PFHxA	1.08	0.50	5.00	
PFHpA	1.26	0.50	5.00	
PFOA	1.11	0.50	5.00	
PFNA	1.03	1.00	5.00	
PFDA	1.10	0.50	5.00	
PFUnA	1.01	1.00	5.00	
PFDoA	1.09	0.50	5.00	
PFTrDA	1.05	0.50	5.00	
PFTeDA	0.93	1.00	5.00	
NMeFOSAA	1.05	2.50	5.00	
NEtFOSAA	1.72	1.00	5.00	
PFBS	0.95	0.50	5.00	
PFHxS	1.00	0.50	5.00	
PFOS	1.13	0.50	5.00	
<b>Surrogate Recoveries (%)</b>				
13C4-PFBA	104			
13C5-PFHxA	87			
13C4-PFHpA	93			
13C8-PFOA	100			
13C9-PFNA	97			
13C6-PFDA	101			
13C7-PFUnA	100			
13C2-PFDoA	95			
13C2-PFTeDA	89			
d3-MeFOSAA	112			
d5-EtFOSAA	93			
13C3-PFBS	101			
13C3-PFHxS	110			
13C8-PFOS	92			



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	Procedural Blank		
Battelle ID	CQ320PB-FS		
Sample Type	PB		
Collection Date	03/22/2018		
Extraction Date	03/22/2018		
Analysis Date	03/28/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	WATER		
Sample Size	0.250		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.28 J	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.22 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDoA	0.18 U	0.50	5.00
PFTeDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

#### Surrogate Recoveries (%)

13C4-PFBA	111
13C5-PFHxA	103
13C4-PFHpA	93
13C8-PFOA	99
13C9-PFNA	99
13C6-PFDA	95
13C7-PFUnA	114
13C2-PFDoA	84
13C2-PFTeDA	54
d3-MeFOSAA	99
d5-EtFOSAA	115
13C3-PFBS	123
13C3-PFHxS	105
13C8-PFOS	119



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	Laboratory Control Sample			
Battelle ID	CQ321LCS-FS			
Sample Type	LCS			
Collection Date	03/22/2018			
Extraction Date	03/22/2018			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	WATER			
Sample Size	0.250			
Size Unit-Basis	L			
Units	ng/L	Target	Recovery	Qual
PFBA	12.65	10.00	127	
PFHxA	10.67	10.10	106	
PFHpA	9.40	10.00	94	
PFOA	10.03	10.00	100	
PFNA	10.22	10.00	102	
PFDA	11.55	10.00	116	
PFUnA	10.26	10.00	103	
PFDoA	11.07	10.00	111	
PFTTrDA	13.87	10.00	139	
PFTeDA	12.40	10.00	124	
NMeFOSAA	10.41	10.00	104	
NEtFOSAA	10.46	10.00	105	
PFBS	12.57	10.10	124	
PFHxS	10.99	10.10	109	
PFOS	10.66	10.00	107	

#### Surrogate Recoveries (%)

13C4-PFBA	108
13C5-PFHxA	98
13C4-PFHpA	89
13C8-PFOA	96
13C9-PFNA	94
13C6-PFDA	103
13C7-PFUnA	109
13C2-PFDoA	98
13C2-PFTeDA	72
d3-MeFOSAA	130
d5-EtFOSAA	127
13C3-PFBS	110
13C3-PFHxS	116
13C8-PFOS	101



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID 06GW08031718

Battelle ID J5387-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/28/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.265  
 Size Unit-Basis L  
 Units ng/L

PFBA	0.14 U
PFHxA	0.19 U
PFHpA	0.16 U
PFOA	48.12
PFNA	0.43 J
PFDA	0.16 U
PFOxA	0.29 U
PFDoA	0.18 J
PFTeDA	0.22 J
PFTeDA	0.25 U
NMeFOSAA	0.56 U
NEtFOSAA	0.49 U
PFBS	35.26
PFHxS	0.11 U
PFOS	0.19 U

**Surrogate Recoveries (%)**

13C4-PFBA	59 D
13C5-PFHxA	55
13C4-PFHpA	108
13C8-PFOA	85
13C9-PFNA	77
13C6-PFDA	95
13C7-PFOxA	103
13C2-PFDoA	89
13C2-PFTeDA	71
d3-MeFOSAA	126
d5-EtFOSAA	126
13C3-PFBS	90
13C3-PFHxS	111
13C8-PFOS	94



Project Client: Tetra Tech  
 Project Name: PFAS Analytical w  
 Project Number: 100112541

Client ID	06GW08031718		
Battelle ID	J5387MS-FS		
Sample Type	MS		
Collection Date	03/17/2018		
Extraction Date	03/22/2018		
Analysis Date	03/28/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	GW		
Sample Size	0.255		
Size Unit-Basis	L		
Units	ng/L	Target	Recovery Qual
PFBA	39.38	39.22	100
PFHxA	33.01	39.61	83
PFHpA	35.08	39.22	89
PFOA	83.32	39.22	90
PFNA	30.44	39.22	77
PFDA	37.04	39.22	94
PFUnA	33.60	39.22	86
PFDoA	37.65	39.22	96
PFTrDA	49.62	39.22	126
PFTeDA	46.40	39.22	118
NMeFOSAA	33.58	39.22	86
NEtFOSAA	44.77	39.22	114
PFBS	74.14	39.61	98
PFHxS	48.00	39.61	121
PFOS	33.61	39.22	86

#### Surrogate Recoveries (%)

13C4-PFBA	51 D
13C5-PFHxA	65
13C4-PFHpA	89
13C8-PFOA	84
13C9-PFNA	87
13C6-PFDA	83
13C7-PFUnA	97
13C2-PFDoA	99
13C2-PFTeDA	72
d3-MeFOSAA	126
d5-EtFOSAA	98
13C3-PFBS	90
13C3-PFHxS	94
13C8-PFOS	89





Project Client: Tetra Tech  
 Project Name: PFAS Analytical w  
 Project Number: 100112541

Client ID 06GW08031718

Battelle ID J5387MSD-FS  
 Sample Type MSD  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/28/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.260  
 Size Unit-Basis L

Units	ng/L	Target	Recovery	Qual	RPD	Qual
PFBA	41.10	38.46	107		6.8	
PFHxA	31.25	38.85	80		3.7	
PFHpA	35.23	38.46	92		3.3	
PFOA	83.99	38.46	93		3.3	
PFNA	29.76	38.46	76		1.3	
PFDA	36.78	38.46	96		2.1	
PFUnA	33.14	38.46	86		0.0	
PFDoA	35.46	38.46	92		4.3	
PFTrDA	46.11	38.46	119		5.7	
PFTeDA	44.38	38.46	115		2.6	
NMeFOSAA	32.75	38.46	85		1.2	
NEtFOSAA	42.65	38.46	111		2.7	
PFBS	70.34	38.85	90		8.5	
PFHxS	43.26	38.85	111		8.6	
PFOS	31.47	38.46	82		4.8	

#### Surrogate Recoveries (%)

13C4-PFBA	51 D
13C5-PFHxA	54
13C4-PFHpA	97
13C8-PFOA	84
13C9-PFNA	88
13C6-PFDA	106
13C7-PFUnA	127
13C2-PFDoA	128
13C2-PFTeDA	98
d3-MeFOSAA	139
d5-EtFOSAA	117
13C3-PFBS	103
13C3-PFHxS	108
13C8-PFOS	109



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	06GW08031718		
Battelle ID	J5387-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/22/2018		
Analysis Date	03/28/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	GW		
Sample Size	0.265		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	48.12	0.50	5.00
PFNA	0.43 J	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 J	0.50	5.00
PFTTrDA	0.22 J	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	35.26	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	59 D
13C5-PFHxA	55
13C4-PFHpA	108
13C8-PFOA	85
13C9-PFNA	77
13C6-PFDA	95
13C7-PFUnA	103
13C2-PFDaA	89
13C2-PFTeDA	71
d3-MeFOSAA	126
d5-EtFOSAA	126
13C3-PFBS	90
13C3-PFHxS	111
13C8-PFOS	94

Analyzed by: Schumitz, Denise



Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW09031718

Battelle ID J5388-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/28/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.270  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	1.12 J	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	8.24	0.50	5.00
PFNA	0.32 J	1.00	5.00
PFDA	0.30 J	0.50	5.00
PFUnA	0.30 J	1.00	5.00
PFDaA	0.30 J	0.50	5.00
PFTTrDA	0.16 J	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.15 J	0.50	5.00
PFHxS	10.96	0.50	5.00
PFOS	0.66 J	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	68 D
13C5-PFHxA	100
13C4-PFHpA	85
13C8-PFOA	64
13C9-PFNA	64
13C6-PFDA	71
13C7-PFUnA	75
13C2-PFDaA	63
13C2-PFTeDA	67
d3-MeFOSAA	82
d5-EtFOSAA	73
13C3-PFBS	110
13C3-PFHxS	93
13C8-PFOS	85

Analyzed by: Schumitz, Denise

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW04031718

Battelle ID J5389-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/28/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.275  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	1.68 J	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	34.65	0.50	5.00
PFNA	0.36 J	1.00	5.00
PFDA	0.28 J	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.43 J	0.50	5.00
PFHxS	0.80 J	0.50	5.00
PFOS	3.86 J	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	74 D
13C5-PFHxA	110
13C4-PFHpA	121
13C8-PFOA	87
13C9-PFNA	74
13C6-PFDA	108
13C7-PFUnA	128
13C2-PFDaA	106
13C2-PFTeDA	79
d3-MeFOSAA	139
d5-EtFOSAA	144
13C3-PFBS	130
13C3-PFHxS	132
13C8-PFOS	120

Analyzed by: Schumitz, Denise

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW16031718

Battelle ID J5390-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/29/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.265  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.33 J	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.94 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.36 J	0.50	5.00
PFHxS	0.33 J	0.50	5.00
PFOS	1.47 J	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	57 D
13C5-PFHxA	114
13C4-PFHpA	125
13C8-PFOA	109
13C9-PFNA	94
13C6-PFDA	97
13C7-PFUnA	109
13C2-PFDaA	85
13C2-PFTeDA	52
d3-MeFOSAA	144
d5-EtFOSAA	147
13C3-PFBS	135
13C3-PFHxS	115
13C8-PFOS	126

Analyzed by: Schumitz, Denise

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW15031718

Battelle ID J5392-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/29/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.265  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	2.74 J	0.50	5.00
PFHxA	1.70 J	0.50	5.00
PFHpA	2.38 J	0.50	5.00
PFOA	4.50 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.70 J	0.50	5.00
PFHxS	1.24 J	0.50	5.00
PFOS	2.51 J	0.50	5.00

#### Surrogate Recoveries (%)

13C4-PFBA	59 D
13C5-PFHxA	118
13C4-PFHpA	103
13C8-PFOA	90
13C9-PFNA	82
13C6-PFDA	88
13C7-PFUnA	95
13C2-PFDaA	66
13C2-PFTeDA	57
d3-MeFOSAA	89
d5-EtFOSAA	76
13C3-PFBS	132
13C3-PFHxS	107
13C8-PFOS	123

Analyzed by: Schumitz, Denise

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID	06GW14031718		
Battelle ID	J5394-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/22/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	GW		
Sample Size	0.280		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	28.94	0.50	5.00
PFHpA	24.37	0.50	5.00
PFOA	718.50 D	0.50	5.00
PFNA	1.00 J	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	7.83	0.50	5.00
PFHxS	7.73	0.50	5.00
PFOS	9.58	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	69 D
13C5-PFHxA	56
13C4-PFHpA	53
13C8-PFOA	54 D
13C9-PFNA	51 D
13C6-PFDA	94
13C7-PFUnA	93
13C2-PFDaA	73
13C2-PFTeDA	59
d3-MeFOSAA	104
d5-EtFOSAA	82
13C3-PFBS	135
13C3-PFHxS	126
13C8-PFOS	110

Analyzed by: Schumitz, Denise

Printed: 4/4/2018



Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW06031718

Battelle ID J5395-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/29/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.270  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	19.81	0.50	5.00
PFHpA	18.17	0.50	5.00
PFOA	0.18 U	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	3.28 J	0.50	5.00
PFHxS	6.71	0.50	5.00
PFOS	10.90	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	57 D
13C5-PFHxA	81
13C4-PFHpA	102
13C8-PFOA	81
13C9-PFNA	70
13C6-PFDA	103
13C7-PFUnA	122
13C2-PFDaA	95
13C2-PFTeDA	62
d3-MeFOSAA	114
d5-EtFOSAA	80
13C3-PFBS	130
13C3-PFHxS	88
13C8-PFOS	87

Analyzed by: Schumitz, Denise



Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW03031718

Battelle ID J5396-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/29/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.280  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	7.90	0.50	5.00
PFHpA	5.64	0.50	5.00
PFOA	59.57	0.50	5.00
PFNA	0.42 J	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	2.78 J	0.50	5.00
PFHxS	4.09 J	0.50	5.00
PFOS	2.45 J	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	62 D
13C5-PFHxA	111
13C4-PFHpA	90
13C8-PFOA	77
13C9-PFNA	64
13C6-PFDA	74
13C7-PFUnA	82
13C2-PFDaA	62
13C2-PFTeDA	55
d3-MeFOSAA	61
d5-EtFOSAA	64
13C3-PFBS	133
13C3-PFHxS	113
13C8-PFOS	114

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID	06FDGW0318		
Battelle ID	J5397-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/22/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	GW		
Sample Size	0.275		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	1.49 J	0.50	5.00
PFHpA	1.66 J	0.50	5.00
PFOA	38.48	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.42 J	0.50	5.00
PFHxS	0.39 J	0.50	5.00
PFOS	4.00 J	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	65 D
13C5-PFHxA	123
13C4-PFHpA	102
13C8-PFOA	80
13C9-PFNA	75
13C6-PFDA	94
13C7-PFUnA	124
13C2-PFDaA	92
13C2-PFTeDA	84
d3-MeFOSAA	103
d5-EtFOSAA	120
13C3-PFBS	102
13C3-PFHxS	124
13C8-PFOS	107

Analyzed by: Schumitz, Denise



## Glossary of Data Qualifiers

Flag:      Application:

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B	Analyte found in the sample at a concentration <5x the level found in the procedural blank
D	Dilution Run. Initial run outside the initial calibration range of the instrument
E	Estimate, result is greater than the highest concentration level in the calibration
H	Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract.
J	Analyte detected below the Limit of Quantitation (LOQ)
ME	Significant Matrix Interference - Estimated value.
MI	Significant Matrix Interference - value could not be determined.
n	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets secondary criteria
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not Applicable
T	Holding Time (HT) exceeded
U	Analyte not detected or detected below the Method detection limit (MDL) value, MDL reported

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","375-22-4","PFBA","39.370000","ng/L","",".140000","MDL","","T","100.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","307-24-4","PFHxA","33.000000","ng/L","",".190000","MDL","","T","83.00","",".5.000000","LOQ","YES","39.600000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","375-85-9","PFHpA","35.080000","ng/L","",".160000","MDL","","T","89.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","335-67-1","PFOA","83.310000","ng/L","",".180000","MDL","","T","90.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","375-95-1","PFNA","30.440000","ng/L","",".260000","MDL","","T","77.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500","1.000000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","335-76-2","PFDA","37.040000","ng/L","",".160000","MDL","","T","94.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","2058-94-8","PFUnA","33.600000","ng/L","",".290000","MDL","","T","86.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500","1.000000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","307-55-1","PFDaA","37.650000","ng/L","",".180000","MDL","","T","96.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","72629-94-8","PFTrDA","49.620000","ng/L","",".150000","MDL","","T","126.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","376-06-7","PFTeDA","46.400000","ng/L","",".250000","MDL","","T","118.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500","1.000000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","2355-31-9","NMeFOSAA","33.580000","ng/L","",".560000","MDL","","T","86.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500","2.500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","2991-50-6","NEtFOSAA","44.770000","ng/L","",".490000","MDL","","T","114.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500","1.000000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","375-73-5","PFBS","74.130000","ng/L","",".130000","MDL","","T","98.00","",".5.000000","LOQ","YES","39.600000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","355-46-4","PFHxS","47.990000","ng/L","",".110000","MDL","","T","121.00","",".5.000000","LOQ","YES","39.600000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","1763-23-1","PFOS","33.610000","ng/L","",".190000","MDL","","T","86.00","",".5.000000","LOQ","YES","39.210000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Dilution","J5387MS-FS","BNO","BDO-2105","13C4-PFBA","9.990000","ng/L","D","-99.000000","NA","","SIS","51.00","",",-99.000000","NA","YES","19.600000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","BDO-2217","13C5-PFHxA",".250000","ng/L","",",-99.000000","NA","","SIS","65.00","",",-99.000000","NA","YES",".390000","J5387MS-FS",".255000",".000500",".500000",""

"06GW08031718MS","SOP 5-369","Initial","J5387MS-FS","BNO","BDO-2218","13C4-PFHpA",".340000","ng/L","",",-99.000000","NA","","SIS","89.00","",",-99.000000","NA","YES",".390000","J5387MS-



FS", ".255000", ".000500", ".500000", ""  
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FS", ".255000", ".000500", ".500000", ""  
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2", "PFDA", "36.780000", "ng/L", "", ".160000", "MDL", "", "T", "96.00", "2.100", "5.000000", "LOQ", "YES", "38.460000", "J  
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7", "PFT<sub>e</sub>DA", "44.370000", "ng/L", "", ".250000", "MDL", "", "T", "115.00", "2.600", "5.000000", "LOQ", "YES", "38.460000  
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000", "J5387MSD-FS", ".260000", ".000500", "2.500000", ""  
"06GW08031718MSD", "SOP 5-369", "Initial", "J5387MSD-FS", "BNO", "2991-50-  
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"CQ320PB-FS", "SOP 5-369", "Initial", "CQ320PB-FS", "BNO", "72629-94-  
8", "PFTTrDA", ".150000", "ng/L", "U", ".150000", "MDL", "", "T", "", "", "5.000000", "LOQ", "YES", "-99.000000", "", ".250000", "  
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"CQ320PB-FS", "SOP 5-369", "Initial", "CQ320PB-FS", "BNO", "376-06-  
7", "PFTeDA", ".250000", "ng/L", "U", ".250000", "MDL", "", "T", "", "", "5.000000", "LOQ", "YES", "-99.000000", "", ".250000", "  
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"CQ320PB-FS", "SOP 5-369", "Initial", "CQ320PB-FS", "BNO", "2355-31-  
9", "NMeFOSAA", ".560000", "ng/L", "U", ".560000", "MDL", "", "T", "", "", "5.000000", "LOQ", "YES", "-99.000000", "", ".250000", "  
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"CQ320PB-FS", "SOP 5-369", "Initial", "CQ320PB-FS", "BNO", "2991-50-  
6", "NEtFOSAA", ".490000", "ng/L", "U", ".490000", "MDL", "", "T", "", "", "5.000000", "LOQ", "YES", "-99.000000", "", ".250000", "  
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"CQ320PB-FS", "SOP 5-369", "Initial", "CQ320PB-FS", "BNO", "375-73-  
5", "PFBS", ".130000", "ng/L", "U", ".130000", "MDL", "", "T", "", "", "5.000000", "LOQ", "YES", "-99.000000", "", ".250000", "  
.000500", ".500000", ""  
"CQ320PB-FS", "SOP 5-369", "Initial", "CQ320PB-FS", "BNO", "355-46-  
4", "PFHxS", ".110000", "ng/L", "U", ".110000", "MDL", "", "T", "", "", "5.000000", "LOQ", "YES", "-99.000000", "", ".250000

",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","1763-23-1","PFOS",".190000","ng/L","U",".190000","MDL","","T","","5.000000","LOQ","YES","-99.000000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2105","13C4-PFBA",".440000","ng/L","","-99.000000","NA","","SIS","111.00","","-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2217","13C5-PFHxA",".410000","ng/L","","-99.000000","NA","","SIS","103.00","","-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2218","13C4-PFHpA",".370000","ng/L","","-99.000000","NA","","SIS","93.00","","-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2219","13C8-PFOA",".390000","ng/L","","-99.000000","NA","","SIS","99.00","","-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2221","13C9-PFNA",".390000","ng/L","","-99.000000","NA","","SIS","99.00","","-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2222","13C6-PFDA",".370000","ng/L","","-99.000000","NA","","SIS","95.00","","-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2223","13C7-PFUnA",".450000","ng/L","","-99.000000","NA","","SIS","114.00","","-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2112","13C2-PFDoA",".330000","ng/L","","-99.000000","NA","","SIS","84.00","","-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2224","13C2-PFTeDA",".210000","ng/L","","-99.000000","NA","","SIS","54.00","","-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2125","d3-MeFOSAA",".390000","ng/L","","-99.000000","NA","","SIS","99.00","","-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2126","d5-EtFOSAA",".460000","ng/L","","-99.000000","NA","","SIS","115.00","","-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2226","13C3-PFBS",".450000","ng/L","","-99.000000","NA","","SIS","123.00","","-99.000000","NA","YES",".370000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2227","13C3-PFHxS",".390000","ng/L","","-99.000000","NA","","SIS","105.00","","-99.000000","NA","YES",".370000","",".250000",".000500",".500000",""  
"CQ320PB-FS","SOP 5-369","Initial","CQ320PB-FS","BNO","BDO-2228","13C8-PFOS",".450000","ng/L","","-99.000000","NA","","SIS","119.00","","-99.000000","NA","YES",".380000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","375-22-4","PFBA","12.650000","ng/L","",".140000","MDL","","T","127.00","","5.000000","LOQ","YES","10.000000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","307-24-4","PFHxA","10.660000","ng/L","",".190000","MDL","","T","106.00","","5.000000","LOQ","YES","10.100000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","375-85-9","PFHpA","9.390000","ng/L","",".160000","MDL","","T","94.00","","5.000000","LOQ","YES","10.000000","",".250000",".000500",".500000",""

000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","335-67-1","PFOA","10.020000","ng/L","",".180000","MDL","","T","100.00","",".5.000000","LOQ","YES","10.000000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","375-95-1","PFNA","10.210000","ng/L","",".260000","MDL","","T","102.00","",".5.000000","LOQ","YES","10.000000","",".250000",".000500",".1.000000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","335-76-2","PFDA","11.540000","ng/L","",".160000","MDL","","T","116.00","",".5.000000","LOQ","YES","10.000000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","2058-94-8","PFUnA","10.260000","ng/L","",".290000","MDL","","T","103.00","",".5.000000","LOQ","YES","10.000000","",".250000",".000500",".1.000000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","307-55-1","PFD<sub>o</sub>A","11.070000","ng/L","",".180000","MDL","","T","111.00","",".5.000000","LOQ","YES","10.000000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","72629-94-8","PFTrDA","13.860000","ng/L","",".150000","MDL","","T","139.00","",".5.000000","LOQ","YES","10.000000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","376-06-7","PFTeDA","12.400000","ng/L","",".250000","MDL","","T","124.00","",".5.000000","LOQ","YES","10.000000","",".250000",".000500",".1.000000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","2355-31-9","NMeFOSAA","10.410000","ng/L","",".560000","MDL","","T","104.00","",".5.000000","LOQ","YES","10.000000","",".250000",".000500",".2.500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","2991-50-6","NEtFOSAA","10.460000","ng/L","",".490000","MDL","","T","105.00","",".5.000000","LOQ","YES","10.000000","",".250000",".000500",".1.000000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","375-73-5","PFBS","12.560000","ng/L","",".130000","MDL","","T","124.00","",".5.000000","LOQ","YES","10.100000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","355-46-4","PFHxS","10.980000","ng/L","",".110000","MDL","","T","109.00","",".5.000000","LOQ","YES","10.100000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","1763-23-1","PFOS","10.660000","ng/L","",".190000","MDL","","T","107.00","",".5.000000","LOQ","YES","10.000000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2105","13C4-PFBA",".430000","ng/L","",".-99.000000","NA","","SIS","108.00","",".-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2217","13C5-PFHxA",".390000","ng/L","",".-99.000000","NA","","SIS","98.00","",".-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2218","13C4-PFHpA",".350000","ng/L","",".-99.000000","NA","","SIS","89.00","",".-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2219","13C8-PFOA",".380000","ng/L","",".-99.000000","NA","","SIS","96.00","",".-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2221","13C9-PFNA",".370000","ng/L","",".-99.000000","NA","","SIS","94.00","",".-99.000000","NA","YES",".400000","",".250000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2222","13C6-PFDA",".410000","ng/L","",".-99.000000","NA","","SIS","103.00","",".-99.000000","NA","YES",".400000","",".250000"

0",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2223","13C7-  
PFUnA",".430000","ng/L","",-99.000000","NA","","SIS","109.00","",-99.000000","NA","YES",".400000","",".2500  
00",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2112","13C2-  
PFDaA",".390000","ng/L","",-99.000000","NA","","SIS","98.00","",-99.000000","NA","YES",".400000","",".25000  
0",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2224","13C2-  
PFTeDA",".280000","ng/L","",-99.000000","NA","","SIS","72.00","",-99.000000","NA","YES",".400000","",".2500  
00",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2125","d3-  
MeFOSAA",".510000","ng/L","",-99.000000","NA","","SIS","130.00","",-99.000000","NA","YES",".400000","",".2  
50000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2126","d5-  
EtFOSAA",".500000","ng/L","",-99.000000","NA","","SIS","127.00","",-99.000000","NA","YES",".400000","",".25  
0000",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2226","13C3-  
PFBS",".410000","ng/L","",-99.000000","NA","","SIS","110.00","",-99.000000","NA","YES",".370000","",".250000  
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"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2227","13C3-  
PFHxS",".430000","ng/L","",-99.000000","NA","","SIS","116.00","",-99.000000","NA","YES",".370000","",".25000  
0",".000500",".500000",""  
"CQ321LCS-FS","SOP 5-369","Initial","CQ321LCS-FS","BNO","BDO-2228","13C8-  
PFOS",".380000","ng/L","",-99.000000","NA","","SIS","101.00","",-99.000000","NA","YES",".380000","",".250000  
",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","375-22-  
4","PFBA",".140000","ng/L","U",".140000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
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"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","307-24-  
4","PFHxA",".190000","ng/L","U",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000  
",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","375-85-  
9","PFHpA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000  
",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","335-67-  
1","PFOA","48.110000","ng/L","",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","375-95-  
1","PFNA",".430000","ng/L","J",".260000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
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"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","335-76-  
2","PFDA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","2058-94-  
8","PFUnA",".290000","ng/L","U",".290000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000  
",".000500","1.000000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","307-55-  
1","PFDaA",".180000","ng/L","J",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","72629-94-  
8","PFTrDA",".210000","ng/L","J",".150000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000  
",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","376-06-  
7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".26500



0",".000500","1.000000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","2355-31-  
9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".2  
65000",".000500","2.500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","2991-50-  
6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".26  
5000",".000500","1.000000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","375-73-  
5","PFBS","35.260000","ng/L","",".130000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","355-46-  
4","PFHxS",".110000","ng/L","U",".110000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000  
",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","1763-23-  
1","PFOS",".190000","ng/L","U",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
".000500",".500000",""  
"06GW08031718","SOP 5-369","Dilution","J5387-FS","BNO","BDO-2105","13C4-  
PFBA","11.060000","ng/L","D","-99.000000","NA","","SIS","59.00","","-99.000000","NA","YES","18.860000","",".2  
65000",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2217","13C5-  
PFHxA",".200000","ng/L","","-99.000000","NA","","SIS","55.00","","-99.000000","NA","YES",".370000","",".26500  
0",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2218","13C4-  
PFHpA",".400000","ng/L","","-99.000000","NA","","SIS","108.00","","-99.000000","NA","YES",".370000","",".2650  
00",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2219","13C8-  
PFOA",".320000","ng/L","","-99.000000","NA","","SIS","85.00","","-99.000000","NA","YES",".370000","",".265000"  
",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2221","13C9-  
PFNA",".290000","ng/L","","-99.000000","NA","","SIS","77.00","","-99.000000","NA","YES",".370000","",".265000"  
",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2222","13C6-  
PFDA",".350000","ng/L","","-99.000000","NA","","SIS","95.00","","-99.000000","NA","YES",".370000","",".265000"  
",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2223","13C7-  
PFUnA",".380000","ng/L","","-99.000000","NA","","SIS","103.00","","-99.000000","NA","YES",".370000","",".2650  
00",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2112","13C2-  
PFDaA",".330000","ng/L","","-99.000000","NA","","SIS","89.00","","-99.000000","NA","YES",".370000","",".26500  
0",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2224","13C2-  
PFTeDA",".260000","ng/L","","-99.000000","NA","","SIS","71.00","","-99.000000","NA","YES",".370000","",".2650  
00",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2125","d3-  
MeFOSAA",".470000","ng/L","","-99.000000","NA","","SIS","126.00","","-99.000000","NA","YES",".370000","",".2  
65000",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2126","d5-  
EtFOSAA",".470000","ng/L","","-99.000000","NA","","SIS","126.00","","-99.000000","NA","YES",".370000","",".26  
5000",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2226","13C3-  
PFBS",".310000","ng/L","","-99.000000","NA","","SIS","90.00","","-99.000000","NA","YES",".350000","",".265000",  
".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2227","13C3-  
PFHxS",".390000","ng/L","","-99.000000","NA","","SIS","111.00","","-99.000000","NA","YES",".350000","",".26500

0",".000500",".500000",""  
"06GW08031718","SOP 5-369","Initial","J5387-FS","BNO","BDO-2228","13C8-  
PFOS",".340000","ng/L","",-99.000000","NA","","SIS","94.00","",-99.000000","NA","YES",".360000","",".265000"  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","375-22-  
4","PFBA",".140000","ng/L","U",".140000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","307-24-  
4","PFHxA",".1.120000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000"  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","375-85-  
9","PFHpA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000"  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","335-67-  
1","PFOA",".8.240000","ng/L","",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","375-95-  
1","PFNA",".320000","ng/L","J",".260000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
",".000500","1.000000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","335-76-  
2","PFDA",".300000","ng/L","J",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","2058-94-  
8","PFUnA",".290000","ng/L","J",".290000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
",".000500","1.000000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","307-55-  
1","PFDaA",".290000","ng/L","J",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","72629-94-  
8","PFTTrDA",".150000","ng/L","J",".150000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000"  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","376-06-  
7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000"  
",".000500","1.000000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","2355-31-  
9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
",".000500","2.500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","2991-50-  
6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
",".000500","1.000000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","375-73-  
5","PFBS",".1.150000","ng/L","J",".130000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","355-46-  
4","PFHxS",".10.950000","ng/L","",".110000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000"  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","1763-23-  
1","PFOS",".660000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Dilution","J5388-FS","BNO","BDO-2105","13C4-  
PFBA",".12.560000","ng/L","D","-99.000000","NA","","SIS","68.00","",-99.000000","NA","YES","18.510000","",".270000",  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2217","13C5-  
PFHxA",".360000","ng/L","",",-99.000000","NA","","SIS","100.00","",-99.000000","NA","YES",".370000","",".270000",  
",".000500",".500000",""

00",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2218","13C4-  
PFHpA",".310000","ng/L","",-99.000000","NA","","SIS","85.00","",-99.000000","NA","YES",".370000","",".27000  
0",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2219","13C8-  
PFOA",".230000","ng/L","",-99.000000","NA","","SIS","64.00","",-99.000000","NA","YES",".370000","",".270000"  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2221","13C9-  
PFNA",".230000","ng/L","",-99.000000","NA","","SIS","64.00","",-99.000000","NA","YES",".370000","",".270000"  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2222","13C6-  
PFDA",".260000","ng/L","",-99.000000","NA","","SIS","71.00","",-99.000000","NA","YES",".370000","",".270000"  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2223","13C7-  
PFUnA",".270000","ng/L","",-99.000000","NA","","SIS","75.00","",-99.000000","NA","YES",".370000","",".27000  
0",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2112","13C2-  
PFDaA",".230000","ng/L","",-99.000000","NA","","SIS","63.00","",-99.000000","NA","YES",".370000","",".27000  
0",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2224","13C2-  
PFTeDA",".240000","ng/L","",-99.000000","NA","","SIS","67.00","",-99.000000","NA","YES",".370000","",".2700  
00",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2125","d3-  
MeFOSAA",".300000","ng/L","",-99.000000","NA","","SIS","82.00","",-99.000000","NA","YES",".370000","",".27  
0000",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2126","d5-  
EtFOSAA",".270000","ng/L","",-99.000000","NA","","SIS","73.00","",-99.000000","NA","YES",".370000","",".270  
000",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2226","13C3-  
PFBS",".370000","ng/L","",-99.000000","NA","","SIS","110.00","",-99.000000","NA","YES",".340000","",".270000  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2227","13C3-  
PFHxS",".320000","ng/L","",-99.000000","NA","","SIS","93.00","",-99.000000","NA","YES",".350000","",".270000  
",".000500",".500000",""  
"06GW09031718","SOP 5-369","Initial","J5388-FS","BNO","BDO-2228","13C8-  
PFOS",".300000","ng/L","",-99.000000","NA","","SIS","85.00","",-99.000000","NA","YES",".350000","",".270000"  
",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","375-22-  
4","PFBA",".140000","ng/L","U",".140000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",  
",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","307-24-  
4","PFHxA",".1.670000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000  
",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","375-85-  
9","PFHpA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000  
",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","335-67-  
1","PFOA",".34.640000","ng/L","",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000"  
",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","375-95-  
1","PFNA",".350000","ng/L","J",".260000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",  
",".000500",".1.000000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","335-76-  
2","PFDA",".280000","ng/L","J",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",

".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","2058-94-8","PFUnA",".290000","ng/L","U",".290000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",".000500","1.000000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","307-55-1","PFDaA",".180000","ng/L","U",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","72629-94-8","PFTTrDA",".150000","ng/L","U",".150000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","376-06-7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",".000500","1.000000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","2355-31-9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",".000500","2.500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","2991-50-6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",".000500","1.000000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","375-73-5","PFBS","1.430000","ng/L","J",".130000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","355-46-4","PFHxS",".800000","ng/L","J",".110000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","1763-23-1","PFOS","3.850000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Dilution","J5389-FS","BNO","BDO-2105","13C4-PFBA","13.520000","ng/L","D","-99.000000","NA","","SIS","74.00","","-99.000000","NA","YES","18.180000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2217","13C5-PFHxA",".390000","ng/L","","-99.000000","NA","","SIS","110.00","","-99.000000","NA","YES",".360000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2218","13C4-PFHpA",".440000","ng/L","","-99.000000","NA","","SIS","121.00","","-99.000000","NA","YES",".360000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2219","13C8-PFOA",".310000","ng/L","","-99.000000","NA","","SIS","87.00","","-99.000000","NA","YES",".360000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2221","13C9-PFNA",".260000","ng/L","","-99.000000","NA","","SIS","74.00","","-99.000000","NA","YES",".360000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2222","13C6-PFDA",".390000","ng/L","","-99.000000","NA","","SIS","108.00","","-99.000000","NA","YES",".360000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2223","13C7-PFUnA",".460000","ng/L","","-99.000000","NA","","SIS","128.00","","-99.000000","NA","YES",".360000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2112","13C2-PFDaA",".380000","ng/L","","-99.000000","NA","","SIS","106.00","","-99.000000","NA","YES",".360000","",".275000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2224","13C2-PFTeDA",".280000","ng/L","","-99.000000","NA","","SIS","79.00","","-99.000000","NA","YES",".360000","",".275000",".000500",".500000",""

00",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2125","d3-  
MeFOSAA",".500000","ng/L","",-99.000000","NA","","SIS","139.00","",-99.000000","NA","YES",".360000","",".2  
75000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2126","d5-  
EtFOSAA",".520000","ng/L","",-99.000000","NA","","SIS","144.00","",-99.000000","NA","YES",".360000","",".27  
5000",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2226","13C3-  
PFBS",".440000","ng/L","",-99.000000","NA","","SIS","130.00","",-99.000000","NA","YES",".330000","",".275000  
",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2227","13C3-  
PFHxS",".450000","ng/L","",-99.000000","NA","","SIS","132.00","",-99.000000","NA","YES",".340000","",".27500  
0",".000500",".500000",""  
"06GW04031718","SOP 5-369","Initial","J5389-FS","BNO","BDO-2228","13C8-  
PFOS",".410000","ng/L","",-99.000000","NA","","SIS","120.00","",-99.000000","NA","YES",".340000","",".275000  
",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","375-22-  
4","PFBA",".140000","ng/L","U",".140000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","307-24-  
4","PFHxA",".320000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000"  
",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","375-85-  
9","PFHpA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000  
",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","335-67-  
1","PFOA",".940000","ng/L","J",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","375-95-  
1","PFNA",".260000","ng/L","U",".260000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
".000500","1.000000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","335-76-  
2","PFDA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","2058-94-  
8","PFUnA",".290000","ng/L","U",".290000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000  
",".000500","1.000000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","307-55-  
1","PFDaA",".180000","ng/L","U",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000  
",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","72629-94-  
8","PFTrDA",".150000","ng/L","U",".150000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".26500  
0",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","376-06-  
7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".26500  
0",".000500","1.000000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","2355-31-  
9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".2  
65000",".000500","2.500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","2991-50-  
6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".26  
5000",".000500","1.000000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","375-73-  
5","PFBS",".350000","ng/L","J",".130000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",

.000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","355-46-  
4","PFHxS",".330000","ng/L","J",".110000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","1763-23-  
1","PFOS","1.470000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",  
".000500",".500000",""  
"06GW16031718","SOP 5-369","Dilution","J5390-FS","BNO","BDO-2105","13C4-  
PFBA","10.810000","ng/L","D","-99.000000","NA","","SIS","57.00","","-99.000000","NA","YES","18.860000","",".2  
65000",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2217","13C5-  
PFHxA",".430000","ng/L","","-99.000000","NA","","SIS","114.00","","-99.000000","NA","YES",".370000","",".2650  
00",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2218","13C4-  
PFHpA",".470000","ng/L","","-99.000000","NA","","SIS","125.00","","-99.000000","NA","YES",".370000","",".2650  
00",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2219","13C8-  
PFOA",".410000","ng/L","","-99.000000","NA","","SIS","109.00","","-99.000000","NA","YES",".370000","",".26500  
0",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2221","13C9-  
PFNA",".350000","ng/L","","-99.000000","NA","","SIS","94.00","","-99.000000","NA","YES",".370000","",".265000"  
",.000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2222","13C6-  
PFDA",".360000","ng/L","","-99.000000","NA","","SIS","97.00","","-99.000000","NA","YES",".370000","",".265000"  
",.000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2223","13C7-  
PFUnA",".410000","ng/L","","-99.000000","NA","","SIS","109.00","","-99.000000","NA","YES",".370000","",".2650  
00",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2112","13C2-  
PFDoA",".310000","ng/L","","-99.000000","NA","","SIS","85.00","","-99.000000","NA","YES",".370000","",".26500  
0",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2224","13C2-  
PFTeDA",".190000","ng/L","","-99.000000","NA","","SIS","52.00","","-99.000000","NA","YES",".370000","",".2650  
00",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2125","d3-  
MeFOSAA",".540000","ng/L","","-99.000000","NA","","SIS","144.00","","-99.000000","NA","YES",".370000","",".2  
65000",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2126","d5-  
EtFOSAA",".550000","ng/L","","-99.000000","NA","","SIS","147.00","","-99.000000","NA","YES",".370000","",".26  
5000",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2226","13C3-  
PFBS",".470000","ng/L","","-99.000000","NA","","SIS","135.00","","-99.000000","NA","YES",".350000","",".265000"  
",.000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2227","13C3-  
PFHxS",".410000","ng/L","","-99.000000","NA","","SIS","115.00","","-99.000000","NA","YES",".350000","",".26500  
0",".000500",".500000",""  
"06GW16031718","SOP 5-369","Initial","J5390-FS","BNO","BDO-2228","13C8-  
PFOS",".450000","ng/L","","-99.000000","NA","","SIS","126.00","","-99.000000","NA","YES",".360000","",".265000"  
",.000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","375-22-  
4","PFBA","2.740000","ng/L","J",".140000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000"  
",.000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","307-24-  
4","PFHxA","1.700000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000



",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","375-85-9","PFHpA","2.380000","ng/L","J",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","335-67-1","PFOA","4.490000","ng/L","J",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","375-95-1","PFNA",".260000","ng/L","U",".260000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500","1.000000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","335-76-2","PFDA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","2058-94-8","PFUnA",".290000","ng/L","U",".290000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500","1.000000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","307-55-1","PFDaA",".180000","ng/L","U",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","72629-94-8","PFTTrDA",".150000","ng/L","U",".150000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","376-06-7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500","1.000000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","2355-31-9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500","2.500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","2991-50-6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500","1.000000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","375-73-5","PFBS","1.690000","ng/L","J",".130000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","355-46-4","PFHxS","1.230000","ng/L","J",".110000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","1763-23-1","PFOS","2.500000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Dilution","J5392-FS","BNO","BDO-2105","13C4-PFBA","11.200000","ng/L","D","-99.000000","NA","","SIS","59.00","","-99.000000","NA","YES","18.860000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2217","13C5-PFHxA",".440000","ng/L","","-99.000000","NA","","SIS","118.00","","-99.000000","NA","YES",".370000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2218","13C4-PFHpA",".380000","ng/L","","-99.000000","NA","","SIS","103.00","","-99.000000","NA","YES",".370000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2219","13C8-PFOA",".340000","ng/L","","-99.000000","NA","","SIS","90.00","","-99.000000","NA","YES",".370000","",".265000",".000500",".500000",""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2221","13C9-PFNA",".300000","ng/L","","-99.000000","NA","","SIS","82.00","","-99.000000","NA","YES",".370000","",".265000"

,".000500",".500000", ""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2222","13C6-  
PFDA",".330000","ng/L", "", "-99.000000","NA", "", "SIS", "88.00", "", "-99.000000","NA","YES", ".370000", "", ".265000"  
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"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2223","13C7-  
PFUnA",".350000","ng/L", "", "-99.000000","NA", "", "SIS", "95.00", "", "-99.000000","NA","YES", ".370000", "", ".26500  
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"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2112","13C2-  
PFDaA",".240000","ng/L", "", "-99.000000","NA", "", "SIS", "66.00", "", "-99.000000","NA","YES", ".370000", "", ".26500  
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"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2224","13C2-  
PFTeDA",".210000","ng/L", "", "-99.000000","NA", "", "SIS", "57.00", "", "-99.000000","NA","YES", ".370000", "", ".2650  
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"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2125","d3-  
MeFOSAA",".330000","ng/L", "", "-99.000000","NA", "", "SIS", "89.00", "", "-99.000000","NA","YES", ".370000", "", ".26  
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"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2126","d5-  
EtFOSAA",".280000","ng/L", "", "-99.000000","NA", "", "SIS", "76.00", "", "-99.000000","NA","YES", ".370000", "", ".265  
000", ".000500", ".500000", ""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2226","13C3-  
PFBS",".460000","ng/L", "", "-99.000000","NA", "", "SIS", "132.00", "", "-99.000000","NA","YES", ".350000", "", ".265000  
", ".000500", ".500000", ""  
"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2227","13C3-  
PFHxS",".380000","ng/L", "", "-99.000000","NA", "", "SIS", "107.00", "", "-99.000000","NA","YES", ".350000", "", ".26500  
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"06GW15031718","SOP 5-369","Initial","J5392-FS","BNO","BDO-2228","13C8-  
PFOS",".440000","ng/L", "", "-99.000000","NA", "", "SIS", "123.00", "", "-99.000000","NA","YES", ".360000", "", ".265000  
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"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","375-22-  
4","PFBA",".140000","ng/L","U", ".140000","MDL", "", "T", "", "", "5.000000","LOQ","YES",-99.000000, "", ".280000",  
,".000500", ".500000", ""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","307-24-  
4","PFHxA",".28.940000","ng/L", "", ".190000","MDL", "", "T", "", "", "5.000000","LOQ","YES",-99.000000, "", ".28000  
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"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","375-85-  
9","PFHpA",".24.360000","ng/L", "", ".160000","MDL", "", "T", "", "", "5.000000","LOQ","YES",-99.000000, "", ".28000  
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"06GW14031718","SOP 5-369","Dilution","J5394-FS","BNO","335-67-  
1","PFOA",".718.500000","ng/L","D", ".180000","MDL", "", "T", "", "", "5.000000","LOQ","YES",-99.000000, "", ".2800  
00", ".000500", ".500000", ""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","375-95-  
1","PFNA",".990000","ng/L","J", ".260000","MDL", "", "T", "", "", "5.000000","LOQ","YES",-99.000000, "", ".280000",  
,".000500", "1.000000", ""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","335-76-  
2","PFDA",".160000","ng/L","U", ".160000","MDL", "", "T", "", "", "5.000000","LOQ","YES",-99.000000, "", ".280000",  
,".000500", ".500000", ""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","2058-94-  
8","PFUnA",".290000","ng/L","U", ".290000","MDL", "", "T", "", "", "5.000000","LOQ","YES",-99.000000, "", ".280000  
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"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","307-55-  
1","PFDaA",".180000","ng/L","U", ".180000","MDL", "", "T", "", "", "5.000000","LOQ","YES",-99.000000, "", ".280000  
", ".000500", ".500000", ""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","72629-94-  
8","PFTTrDA",".150000","ng/L","U", ".150000","MDL", "", "T", "", "", "5.000000","LOQ","YES",-99.000000, "", ".28000

0",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","376-06-  
7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".28000  
0",".000500","1.000000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","2355-31-  
9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".2  
80000",".000500","2.500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","2991-50-  
6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".28  
0000",".000500","1.000000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","375-73-  
5","PFBS","7.820000","ng/L","",".130000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".280000","  
.000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","355-46-  
4","PFHxS","7.730000","ng/L","",".110000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".280000"  
",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","1763-23-  
1","PFOS","9.580000","ng/L","",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".280000","  
.000500",".500000",""  
"06GW14031718","SOP 5-369","Dilution","J5394-FS","BNO","BDO-2105","13C4-  
PFBA","12.300000","ng/L","D","-99.000000","NA","","SIS","69.00","","-99.000000","NA","YES","17.850000","",".2  
80000",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","BDO-2217","13C5-  
PFHxA",".190000","ng/L","","-99.000000","NA","","SIS","56.00","","-99.000000","NA","YES",".350000","",".28000  
0",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","BDO-2218","13C4-  
PFHpA",".180000","ng/L","","-99.000000","NA","","SIS","53.00","","-99.000000","NA","YES",".350000","",".28000  
0",".000500",".500000",""  
"06GW14031718","SOP 5-369","Dilution","J5394-FS","BNO","BDO-2219","13C8-  
PFOA","9.640000","ng/L","D","-99.000000","NA","","SIS","54.00","","-99.000000","NA","YES","17.850000","",".28  
0000",".000500",".500000",""  
"06GW14031718","SOP 5-369","Dilution","J5394-FS","BNO","BDO-2221","13C9-  
PFNA","9.110000","ng/L","D","-99.000000","NA","","SIS","51.00","","-99.000000","NA","YES","17.850000","",".28  
0000",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","BDO-2222","13C6-  
PFDA",".330000","ng/L","","-99.000000","NA","","SIS","94.00","","-99.000000","NA","YES",".350000","",".280000"  
",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","BDO-2223","13C7-  
PFUnA",".330000","ng/L","","-99.000000","NA","","SIS","93.00","","-99.000000","NA","YES",".350000","",".28000  
0",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","BDO-2112","13C2-  
PFDaA",".260000","ng/L","","-99.000000","NA","","SIS","73.00","","-99.000000","NA","YES",".350000","",".28000  
0",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","BDO-2224","13C2-  
PFTeDA",".200000","ng/L","","-99.000000","NA","","SIS","59.00","","-99.000000","NA","YES",".350000","",".2800  
00",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","BDO-2125","d3-  
MeFOSAA",".370000","ng/L","","-99.000000","NA","","SIS","104.00","","-99.000000","NA","YES",".350000","",".2  
80000",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","BDO-2126","d5-  
EtFOSAA",".290000","ng/L","","-99.000000","NA","","SIS","82.00","","-99.000000","NA","YES",".350000","",".280  
000",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","BDO-2226","13C3-  
PFBS",".440000","ng/L","","-99.000000","NA","","SIS","135.00","","-99.000000","NA","YES",".330000","",".280000

",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","BDO-2227","13C3-  
PFHxS",".420000","ng/L","",-99.000000","NA","","SIS","126.00","",-99.000000","NA","YES",".330000","",".28000  
0",".000500",".500000",""  
"06GW14031718","SOP 5-369","Initial","J5394-FS","BNO","BDO-2228","13C8-  
PFOS",".370000","ng/L","",-99.000000","NA","","SIS","110.00","",-99.000000","NA","YES",".340000","",".280000  
",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","375-22-  
4","PFBA",".140000","ng/L","U",".140000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","307-24-  
4","PFHxA",".19.810000","ng/L","",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".27000  
0",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","375-85-  
9","PFHpA",".18.170000","ng/L","",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".27000  
0",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","335-67-  
1","PFOA",".180000","ng/L","U",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
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"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","375-95-  
1","PFNA",".260000","ng/L","U",".260000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
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"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","335-76-  
2","PFDA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
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"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","2058-94-  
8","PFUnA",".290000","ng/L","U",".290000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000  
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"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","307-55-  
1","PFDaA",".180000","ng/L","U",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000  
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"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","72629-94-  
8","PFTTrDA",".150000","ng/L","U",".150000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".27000  
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"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","376-06-  
7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".27000  
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"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","2355-31-  
9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".2  
70000",".000500","2.500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","2991-50-  
6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".27  
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"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","375-73-  
5","PFBS","3.280000","ng/L","J",".130000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000",  
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"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","355-46-  
4","PFHxS","6.700000","ng/L","",".110000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000"  
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"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","1763-23-  
1","PFOS","10.890000","ng/L","",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".270000"  
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"06GW06031718","SOP 5-369","Dilution","J5395-FS","BNO","BDO-2105","13C4-  
PFBA","10.470000","ng/L","D","-99.000000","NA","","SIS","57.00","",-99.000000","NA","YES","18.510000","",".2

70000",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2217","13C5-  
PFHxA",".300000","ng/L","",-99.000000","NA","",,"SIS","81.00","",-99.000000","NA","YES",".370000","",".27000  
0",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2218","13C4-  
PFHpA",".370000","ng/L","",-99.000000","NA","",,"SIS","102.00","",-99.000000","NA","YES",".370000","",".2700  
00",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2219","13C8-  
PFOA",".300000","ng/L","",-99.000000","NA","",,"SIS","81.00","",-99.000000","NA","YES",".370000","",".270000"  
",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2221","13C9-  
PFNA",".250000","ng/L","",-99.000000","NA","",,"SIS","70.00","",-99.000000","NA","YES",".370000","",".270000"  
",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2222","13C6-  
PFDA",".380000","ng/L","",-99.000000","NA","",,"SIS","103.00","",-99.000000","NA","YES",".370000","",".27000  
0",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2223","13C7-  
PFUnA",".450000","ng/L","",-99.000000","NA","",,"SIS","122.00","",-99.000000","NA","YES",".370000","",".2700  
00",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2112","13C2-  
PFDoA",".350000","ng/L","",-99.000000","NA","",,"SIS","95.00","",-99.000000","NA","YES",".370000","",".27000  
0",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2224","13C2-  
PFTeDA",".220000","ng/L","",-99.000000","NA","",,"SIS","62.00","",-99.000000","NA","YES",".370000","",".2700  
00",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2125","d3-  
MeFOSAA",".420000","ng/L","",-99.000000","NA","",,"SIS","114.00","",-99.000000","NA","YES",".370000","",".2  
70000",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2126","d5-  
EtFOSAA",".290000","ng/L","",-99.000000","NA","",,"SIS","80.00","",-99.000000","NA","YES",".370000","",".270  
000",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2226","13C3-  
PFBS",".440000","ng/L","",-99.000000","NA","",,"SIS","130.00","",-99.000000","NA","YES",".340000","",".270000  
",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2227","13C3-  
PFHxS",".300000","ng/L","",-99.000000","NA","",,"SIS","88.00","",-99.000000","NA","YES",".350000","",".270000  
",".000500",".500000",""  
"06GW06031718","SOP 5-369","Initial","J5395-FS","BNO","BDO-2228","13C8-  
PFOS",".300000","ng/L","",-99.000000","NA","",,"SIS","87.00","",-99.000000","NA","YES",".350000","",".270000"  
",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","375-22-  
4","PFBA",".140000","ng/L","U",".140000","MDL","",,"T","",,"",,"5.000000","LOQ","YES","-99.000000","",".280000",  
",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","307-24-  
4","PFHxA",".7.890000","ng/L","",".190000","MDL","",,"T","",,"",,"5.000000","LOQ","YES","-99.000000","",".280000"  
",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","375-85-  
9","PFHpA",".5.630000","ng/L","",".160000","MDL","",,"T","",,"",,"5.000000","LOQ","YES","-99.000000","",".280000"  
",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","335-67-  
1","PFOA",".59.560000","ng/L","",".180000","MDL","",,"T","",,"",,"5.000000","LOQ","YES","-99.000000","",".280000"  
",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","375-95-  
1","PFNA",".420000","ng/L","J",".260000","MDL","",,"T","",,"",,"5.000000","LOQ","YES","-99.000000","",".280000",

".000500","1.000000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","335-76-  
2","PFDA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".280000",  
".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","2058-94-  
8","PFUnA",".290000","ng/L","U",".290000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".280000",  
".000500","1.000000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","307-55-  
1","PFDoA",".180000","ng/L","U",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".280000",  
".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","72629-94-  
8","PFTrDA",".150000","ng/L","U",".150000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".28000",  
0",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","376-06-  
7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".28000",  
0",".000500","1.000000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","2355-31-  
9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".2",  
80000",".000500","2.500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","2991-50-  
6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".28",  
0000",".000500","1.000000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","375-73-  
5","PFBS","2.780000","ng/L","J",".130000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".280000",  
".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","355-46-  
4","PFHxS","4.080000","ng/L","J",".110000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".280000",  
".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","1763-23-  
1","PFOS","2.440000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".280000",  
".000500",".500000",""  
"06GW03031718","SOP 5-369","Dilution","J5396-FS","BNO","BDO-2105","13C4-  
PFBA","11.090000","ng/L","D","-99.000000","NA","","SIS","62.00","","-99.000000","NA","YES","17.850000","",".2",  
80000",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2217","13C5-  
PFHxA",".390000","ng/L","","-99.000000","NA","","SIS","111.00","","-99.000000","NA","YES",".350000","",".2800",  
00",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2218","13C4-  
PFHpA",".310000","ng/L","","-99.000000","NA","","SIS","90.00","","-99.000000","NA","YES",".350000","",".28000",  
0",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2219","13C8-  
PFOA",".270000","ng/L","","-99.000000","NA","","SIS","77.00","","-99.000000","NA","YES",".350000","",".280000",  
".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2221","13C9-  
PFNA",".220000","ng/L","","-99.000000","NA","","SIS","64.00","","-99.000000","NA","YES",".350000","",".280000",  
".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2222","13C6-  
PFDA",".260000","ng/L","","-99.000000","NA","","SIS","74.00","","-99.000000","NA","YES",".350000","",".280000",  
".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2223","13C7-  
PFUnA",".290000","ng/L","","-99.000000","NA","","SIS","82.00","","-99.000000","NA","YES",".350000","",".28000",  
0",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2112","13C2-  
PFDoA",".220000","ng/L","","-99.000000","NA","","SIS","62.00","","-99.000000","NA","YES",".350000","",".28000



0",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2224","13C2-  
PFTeDA",".190000","ng/L","",-99.000000","NA","","SIS","55.00","",-99.000000","NA","YES",".350000","",".2800  
00",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2125","d3-  
MeFOSAA",".210000","ng/L","",-99.000000","NA","","SIS","61.00","",-99.000000","NA","YES",".350000","",".28  
0000",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2126","d5-  
EtFOSAA",".220000","ng/L","",-99.000000","NA","","SIS","64.00","",-99.000000","NA","YES",".350000","",".280  
000",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2226","13C3-  
PFBS",".440000","ng/L","",-99.000000","NA","","SIS","133.00","",-99.000000","NA","YES",".330000","",".280000  
",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2227","13C3-  
PFHxS",".380000","ng/L","",-99.000000","NA","","SIS","113.00","",-99.000000","NA","YES",".330000","",".28000  
0",".000500",".500000",""  
"06GW03031718","SOP 5-369","Initial","J5396-FS","BNO","BDO-2228","13C8-  
PFOS",".380000","ng/L","",-99.000000","NA","","SIS","114.00","",-99.000000","NA","YES",".340000","",".280000  
",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","375-22-  
4","PFBA",".140000","ng/L","U",".140000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",  
",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","307-24-  
4","PFHxA",".1480000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000  
",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","375-85-  
9","PFHpA",".1660000","ng/L","J",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000  
",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","335-67-  
1","PFOA",".38480000","ng/L","",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000"  
",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","375-95-  
1","PFNA",".260000","ng/L","U",".260000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",  
",".000500","1.000000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","335-76-  
2","PFDA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",  
",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","2058-94-  
8","PFUnA",".290000","ng/L","U",".290000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000  
",".000500","1.000000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","307-55-  
1","PFDaA",".180000","ng/L","U",".180000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000  
",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","72629-94-  
8","PFTTrDA",".150000","ng/L","U",".150000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".27500  
0",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","376-06-  
7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".27500  
0",".000500","1.000000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","2355-31-  
9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".2  
75000",".000500","2.500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","2991-50-  
6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".27

5000",".000500","1.000000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","375-73-  
5","PFBS","1.420000","ng/L","J",".130000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",  
".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","355-46-  
4","PFHxS",".380000","ng/L","J",".110000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",  
".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","1763-23-  
1","PFOS","3.990000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".275000",  
".000500",".500000",""  
"06FDGW0318","SOP 5-369","Dilution","J5397-FS","BNO","BDO-2105","13C4-  
PFBA","11.790000","ng/L","D","-99.000000","NA","","SIS","65.00","","-99.000000","NA","YES","18.180000","",".2  
75000",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2217","13C5-  
PFHxA",".440000","ng/L","","-99.000000","NA","","SIS","123.00","","-99.000000","NA","YES",".360000","",".2750  
00",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2218","13C4-  
PFHpA",".360000","ng/L","","-99.000000","NA","","SIS","102.00","","-99.000000","NA","YES",".360000","",".2750  
00",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2219","13C8-  
PFOA",".280000","ng/L","","-99.000000","NA","","SIS","80.00","","-99.000000","NA","YES",".360000","",".275000"  
",.000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2221","13C9-  
PFNA",".270000","ng/L","","-99.000000","NA","","SIS","75.00","","-99.000000","NA","YES",".360000","",".275000"  
",.000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2222","13C6-  
PFDA",".340000","ng/L","","-99.000000","NA","","SIS","94.00","","-99.000000","NA","YES",".360000","",".275000"  
",.000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2223","13C7-  
PFUnA",".440000","ng/L","","-99.000000","NA","","SIS","124.00","","-99.000000","NA","YES",".360000","",".2750  
00",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2112","13C2-  
PFDaA",".330000","ng/L","","-99.000000","NA","","SIS","92.00","","-99.000000","NA","YES",".360000","",".27500  
0",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2224","13C2-  
PFTeDA",".300000","ng/L","","-99.000000","NA","","SIS","84.00","","-99.000000","NA","YES",".360000","",".2750  
00",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2125","d3-  
MeFOSAA",".370000","ng/L","","-99.000000","NA","","SIS","103.00","","-99.000000","NA","YES",".360000","",".2  
75000",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2126","d5-  
EtFOSAA",".430000","ng/L","","-99.000000","NA","","SIS","120.00","","-99.000000","NA","YES",".360000","",".27  
5000",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2226","13C3-  
PFBS",".340000","ng/L","","-99.000000","NA","","SIS","102.00","","-99.000000","NA","YES",".330000","",".275000  
",.000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2227","13C3-  
PFHxS",".420000","ng/L","","-99.000000","NA","","SIS","124.00","","-99.000000","NA","YES",".340000","",".27500  
0",".000500",".500000",""  
"06FDGW0318","SOP 5-369","Initial","J5397-FS","BNO","BDO-2228","13C8-  
PFOS",".370000","ng/L","","-99.000000","NA","","SIS","107.00","","-99.000000","NA","YES",".340000","",".275000  
",.000500",".500000",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW08031718MS","","GW","J5387MS-  
FS","MS","","-99.000000","SOP 5-369","Gen Prep","Dilution","03/22/2018 13:19","03/29/2018

23:33","BNO","COA","NA","T","50.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/22/2018 13:19","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW08031718MS","","GW","J5387MS-  
FS","MS","",-99.000000","SOP 5-369","Gen Prep","Initial","03/22/2018 13:19","03/28/2018  
23:22","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/22/2018 13:19","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW08031718MSD","","GW","J5387MSD-  
FS","MSD","",-99.000000","SOP 5-369","Gen Prep","Dilution","03/22/2018 13:19","03/29/2018  
23:43","BNO","COA","NA","T","50.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/22/2018 13:19","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW08031718MSD","","GW","J5387MSD-  
FS","MSD","",-99.000000","SOP 5-369","Gen Prep","Initial","03/22/2018 13:19","03/28/2018  
23:33","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/22/2018 13:19","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","CQ320PB-FS","","WATER","CQ320PB-FS","Method  
Bla","",-99.000000","SOP 5-369","Gen Prep","Initial","03/22/2018 13:19","03/28/2018  
22:50","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/22/2018 13:19","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","CQ321LCS-FS","","WATER","CQ321LCS-  
FS","LCS","",-99.000000","SOP 5-369","Gen Prep","Initial","03/22/2018 13:19","03/28/2018  
23:01","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/22/2018 13:19","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW08031718","03/17/2018 09:25","GW","J5387-  
FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Dilution","03/22/2018 13:19","03/29/2018  
23:22","BNO","COA","NA","T","50.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW08031718","03/17/2018 09:25","GW","J5387-  
FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Initial","03/22/2018 13:19","03/28/2018  
23:11","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW09031718","03/17/2018 09:23","GW","J5388-  
FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Dilution","03/22/2018 13:19","03/29/2018  
23:54","BNO","COA","NA","T","50.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW09031718","03/17/2018 09:23","GW","J5388-  
FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Initial","03/22/2018 13:19","03/28/2018  
23:44","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW04031718","03/17/2018 09:30","GW","J5389-  
FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Dilution","03/22/2018 14:59","03/30/2018  
00:05","BNO","COA","NA","T","50.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW04031718","03/17/2018 09:30","GW","J5389-  
FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Initial","03/22/2018 14:59","03/28/2018  
23:54","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW16031718","03/17/2018 10:23","GW","J5390-  
FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Dilution","03/22/2018 14:59","03/30/2018  
00:16","BNO","COA","NA","T","50.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""  
"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW16031718","03/17/2018 10:23","GW","J5390-  
FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Initial","03/22/2018 14:59","03/29/2018  
00:05","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""

"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW15031718","03/17/2018 10:30","GW","J5392-FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Dilution","03/22/2018 14:59","03/30/2018 00:48","BNO","COA","NA","T","50.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""

"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW15031718","03/17/2018 10:30","GW","J5392-FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Initial","03/22/2018 14:59","03/29/2018 00:37","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""

"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW14031718","03/17/2018 10:40","GW","J5394-FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Dilution","03/22/2018 14:59","03/29/2018 00:59","BNO","COA","NA","T","50.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""

"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW14031718","03/17/2018 10:40","GW","J5394-FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Initial","03/22/2018 14:59","03/29/2018 00:48","BNO","COA","NA","T","2.083000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""

"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW06031718","03/17/2018 11:25","GW","J5395-FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Dilution","03/22/2018 14:59","03/30/2018 00:59","BNO","COA","NA","T","50.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""

"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW06031718","03/17/2018 11:25","GW","J5395-FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Initial","03/22/2018 14:59","03/29/2018 01:10","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""

"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW03031718","03/17/2018 12:05","GW","J5396-FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Dilution","03/22/2018 14:59","03/30/2018 01:10","BNO","COA","NA","T","50.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""

"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06GW03031718","03/17/2018 12:05","GW","J5396-FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Initial","03/22/2018 14:59","03/29/2018 01:21","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""

"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06FDGW0318","03/17/2018 00:00","GW","J5397-FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Dilution","03/22/2018 14:59","03/30/2018 01:20","BNO","COA","NA","T","50.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""

"112g08005-JM08","JM08 NCBC Gulfport Site 6 TS","06FDGW0318","03/17/2018 00:00","GW","J5397-FS","NM","SHP-180320-02",".100000","SOP 5-369","Gen Prep","Initial","03/22/2018 14:59","03/29/2018 01:31","BNO","COA","NA","T","2.000000","NA","NA","","100.000000","18-0207","18-0207","DP-18-0053","DP-18-0053","18-0207","03/20/2018 10:30","04/06/2018 14:46",""



**TETRA TECH**

**INTERNAL CORRESPONDENCE**

**TO: G. ROOF DATE: APRIL 30, 2018**  
**FROM: TERRI L. SOLOMON COPIES: DV FILE**  
**SUBJECT: ORGANIC DATA VALIDATION – POLYFLUOROALKYL SUBSTANCES (PFAS)**  
**NAVAL CONSTRUCTION BATTALION CENTER (NCBC) GULFPORT, GULFPORT,**  
**MISSISSIPPI**  
**CTO JM08**  
**SAMPLE DELIVERY GROUPS (SDGs) 18-0207, 18-0216**

**SAMPLES:** SDG 18-0207  
9/Groundwater

06GW08031718	06GW09031718	06GW04031718
06GW16031718	06GW15031718	06GW14031718
06GW06031718	06GW03031718	06FDGW0318

SDG 18-0216  
3/Field Reagent Blanks

06GW09FRB0318	06GW14FRB0318	06GW15FRB0318
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#### Overview

The sample set for NCBC Gulfport, SDGs 18-0207 and 18-2016 consisted of nine (9) aqueous environmental samples and three (3) FRB samples. All samples were analyzed for Polyfluoroalkyl Substances (PFAS). One field duplicate pair, 06GW-04031718 / 06FDGW0318, was included in this SDG.

The samples were collected by Tetra Tech, Inc. on March 17, 2018 and analyzed by Battelle Norwell Operations. The analyses were conducted using EPA Method 537 (Modified) analytical and reporting protocols. The data was evaluated based on the following parameters:

- \* ● Data Completeness
- \* ● Holding Times/Sample Preservation
- \* ● Mass Calibration
- \* ● Mass Spectral Acquisition Rate
- \* ● Tune Check
- Instrument Sensitivity Check
- \* ● Initial and Continuing Calibration Results
- Laboratory Method / FRB/ Instrument Blank Results
- \* ● Extracted Internal Standard Recoveries
- Injection Internal Standard Results
- Laboratory Control Sample Results
- \* ● Matrix Spike/Matrix Spike Duplicate Results
- \* ● Field Duplicate Precision
- \* ● Detection Limits
- \* ● Compound Identification and Quantification

The symbol (\*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, and documentation supporting these findings is presented in Appendix C.

**PFAS**

The following compounds were detected in the laboratory method/instrument/field reagent blanks at a concentration less than one-third (one/half for instrument blanks) the limit of quantitation (LOQ):

<u>Analyte</u>	<u>Maximum Concentration (ng/L)</u>	<u>Action Level LOQ (&gt; or &lt;)</u>
Pentadecafluorooctanoic acid <sup>(1)</sup>	0.18	< LOQ
Perfluorobutanoic acid <sup>(2)</sup>	0.28	< LOQ
Pentadecafluorooctanoic acid <sup>(2)</sup>	0.22	< LOQ
Perfluorohexanoic acid <sup>(3)</sup>	1.08	< LOQ
Perfluoroheptanoic acid <sup>(3)</sup>	1.26	< LOQ
Pentadecafluorooctanoic acid <sup>(3)</sup>	1.11	< LOQ
Perfluorononanoic acid <sup>(3)</sup>	1.03	< LOQ
Perfluorodecanoic acid <sup>(3)</sup>	1.10	< LOQ
Perfluoroundecanoic acid <sup>(3)</sup>	1.01	< LOQ
Perfluorododecanoic acid <sup>(3)</sup>	1.09	< LOQ
Perfluorotridecanoic acid <sup>(3)</sup>	1.05	< LOQ
N-Ethyl perfluorooctane sulfonamidoacetic acid <sup>(3)</sup>	1.72	< LOQ
Perfluorobutanesulfonic acid <sup>(3)</sup>	0.95	< LOQ
Perfluorohexanesulfonic acid <sup>(3)</sup>	1.00	< LOQ
Perfluorooctane sulfonic acid <sup>(3)</sup>	1.13	< LOQ
Pentadecafluorooctanoic acid <sup>(4)</sup>	0.35	< LOQ
Perfluorotridecanoic acid <sup>(4)</sup>	0.16	< LOQ
Perfluorobutanesulfonic acid <sup>(4)</sup>	0.17	< LOQ
Perfluorohexanesulfonic acid <sup>(4)</sup>	0.21	< LOQ
Perfluorooctane sulfonic acid <sup>(4)</sup>	0.33	< LOQ
Perfluorohexanoic acid <sup>(5)</sup>	0.80	< LOQ
Perfluoroheptanoic acid <sup>(5)</sup>	0.89	< LOQ
Pentadecafluorooctanoic acid <sup>(5)</sup>	0.76	< LOQ
Perfluorodecanoic acid <sup>(5)</sup>	0.85	< LOQ
Perfluorododecanoic acid <sup>(5)</sup>	0.77	< LOQ
Perfluorotridecanoic acid <sup>(5)</sup>	0.81	< LOQ
N-Ethyl perfluorooctane sulfonamidoacetic acid <sup>(5)</sup>	1.36	< LOQ
Perfluorobutanesulfonic acid <sup>(5)</sup>	0.90	< LOQ
Perfluorohexanesulfonic acid <sup>(5)</sup>	0.89	< LOQ
Perfluorooctane sulfonic acid <sup>(5)</sup>	0.88	< LOQ

- (1) Maximum concentration in a FRB affecting samples 06GW09031718 and 06GW16031718.
- (2) Maximum concentration present in a method blank affecting SDG 18-0207.
- (3) Maximum concentration present in an instrument blank affecting SDG 18-0207.
- (4) Maximum concentration present in a method blank affecting SDG 18-0216.
- (5) Maximum concentration present in an instrument blank affecting SDG 18-0216.



The detected results reported for these compounds below the LOQ but above the Limit of Detection (LOD) were qualified as non-detected, (U). Detected results reported below the LOD were raised to the LOD and qualified as non-detected, (U). Field blanks are not qualified for blank contamination.

**NOTES**

The laboratory uses a primary transition (\_1) for the quantitation of a compound and a secondary transition (\_2) for confirmation.

It was noted that the laboratory did not analyze an instrument sensitivity check sample at the LOQ concentration. The laboratory did analyze an independent calibration check and continuing calibration verifications. No validation actions were required.

The injected internal standard area for 13C2-Pentadecafluorooctanoic acid was above the upper quality control limit in sample 06GW14031718. No validation actions were required as the sample was reanalyzed at a dilution with an acceptable internal standard area.

The injected internal standard areas for 13C3-Perfluorobutanoic acid were above the upper quality control limit for all samples except 06GW15031718 in SDG 18-0207. No validation actions were required as all sample results for perfluorobutanoic acid were nondetects.

The laboratory control sample (LCS) percent recovery for perfluorotridecanoic acid was above the 130% quality control limit affecting SDG 18-0207. No validation actions were warranted as all sample results were nondetects.

All samples were reported from a 2X dilution with the following exceptions:

<u>Sample</u>	<u>Analyte</u>	<u>Dilution</u>
06GW14031718	Pentadecafluorooctanoic acid	50X

Samples with detections and their associated FRBs are summarized below.

<u>Sample</u>	<u>Associated FRB</u>
06GW09031718	06GW09FRB0318
06GW16031718	06GW09FRB0318
06GW03031718	06GW14FRB0318
06GW04031718	06GW14FRB0318
06GW14031718	06GW14FRB0318
06FDGW0318	06GW14FRB0318
06GW06031718	06GW15FRB0318
06GW08031718	06GW15FRB0318
06GW15031718	06GW15FRB0318

Detected results reported below the LOQ but above the Detection Limit (DL) were qualified as estimated, (J). Non-detected results are reported to the Limit of Detection (LOD).

**EXECUTIVE SUMMARY**

**Laboratory Performance:** Several contaminants were detected in the method/instrument/field reagent blanks.

TO: G. ROOF  
SDGs: 18-0207, 18-0216

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**Other Factors Affecting Data Quality:** Detected results below the LOQ were estimated.

The data for these analyses were reviewed with reference to the Environmental Protection Agency document EPA/600/R-08/092, Method 537, "Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)", (September 2009), US EPA National Functional Guidelines for Organic Data Review (January 2017), and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories Version 5.1" (2017) as applicable. The text of this report has been formulated to address only those areas affecting data quality.



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Tetra Tech, Inc.  
Terri L. Solomon  
Environmental Chemist



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Tetra Tech, Inc.  
Joseph A. Samchuck  
Data Validation Manager

Attachments:

Appendix A - Qualified Analytical Results  
Appendix B - Results as reported by the Laboratory  
Appendix C - Support Documentation

### Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

<b>U</b>	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
<b>J</b>	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
<b>J+</b>	The result is an estimated quantity, but the result may be biased high.
<b>J-</b>	The result is an estimated quantity, but the result may be biased low.
<b>UJ</b>	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
<b>R</b>	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
<b>UR</b>	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

**Appendix A**

Qualified Analytical Results

**Qualifier Codes:**

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's  $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ( $< 2 \times$  IDL for inorganics and  $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors  $>40\%$  for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient  $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids  $<30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

<b>PROJ_NO: 08005-JM08</b> <b>SDG: 18-0207</b> <b>FRACTION: PFAS</b> <b>MEDIA: WATER</b>	NSAMPLE	06FDGW0318			06GW03031718			06GW04031718			06GW06031718		
	LAB_ID	J5397-FS			J5396-FS			J5389-FS			J5395-FS		
	SAMP_DATE	3/17/2018			3/17/2018			3/17/2018			3/17/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	06GW04031718											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
N-ETHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	1	U		1	U		1	U		1	U		
N-METHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	2.5	U		2.5	U		2.5	U		2.5	U		
PENTADECAFLUOROOCCTANOIC ACID	38.48			59.57			34.65			0.5	U		
PERFLUOROBUTANESULFONIC ACID	1.42	U	A	2.78	U	A	1.43	U	A	3.28	U	A	
PERFLUOROBUTANOIC ACID	0.5	U		0.5	U		0.5	U		0.5	U		
PERFLUORODECANOIC ACID	0.5	U		0.5	U		0.5	U	A	0.5	U		
PERFLUORODODECANOIC ACID	0.5	U		0.5	U		0.5	U		0.5	U		
PERFLUOROHEPTANOIC ACID	1.66	U	A	5.64			0.5	U		18.17			
PERFLUOROHEXANESULFONIC ACID	0.5	U	A	4.09	U	A	0.8	U	A	6.71			
PERFLUOROHEXANOIC ACID	1.49	U	A	7.9			1.68	U	A	19.81			
PERFLUORONONANOIC ACID	1	U		1	U	A	1	U	A	1	U		
PERFLUOROOCCTANE SULFONIC ACID	4	U	A	2.45	U	A	3.86	U	A	10.9			
PERFLUOROTETRADECANOIC ACID	1	U		1	U		1	U		1	U		
PERFLUOROTRIDECANOIC ACID	0.5	U		0.5	U		0.5	U		0.5	U		
PERFLUOROUNDECANOIC ACID	1	U		1	U		1	U		1	U		



PROJ_NO: 08005-JM08 SDG: 18-0207 FRACTION: PFAS MEDIA: WATER	NSAMPLE	06GW08031718			06GW09031718			06GW14031718			06GW15031718		
	LAB_ID	J5387-FS			J5388-FS			J5394-FS			J5392-FS		
	SAMP_DATE	3/17/2018			3/17/2018			3/17/2018			3/17/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
N-ETHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	1	U		1	U		1	U		1	U		
N-METHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	2.5	U		2.5	U		2.5	U		2.5	U		
PENTADEC AFLUOROOCCTANOIC ACID	48.12			8.24			718.5			0.5	U	A	
PERFLUOROBUTANESULFONIC ACID	35.26			1.15	U	A	7.83			1.7	U	A	
PERFLUOROBUTANOIC ACID	0.5	U		0.5	U		0.5	U		2.74	U	A	
PERFLUORODECANOIC ACID	0.5	U		0.5	U	A	0.5	U		0.5	U		
PERFLUORODODECANOIC ACID	0.5	U	A	0.5	U	A	0.5	U		0.5	U		
PERFLUOROHEPTANOIC ACID	0.5	U		0.5	U		24.37			2.38	U	A	
PERFLUOROHEXANESULFONIC ACID	0.5	U		10.96			7.73			1.24	U	A	
PERFLUOROHEXANOIC ACID	0.5	U		1.12	U	A	28.94			1.7	U	A	
PERFLUORONONANOIC ACID	1	U	A	1	U	A	1	U	A	1	U		
PERFLUOROOCCTANE SULFONIC ACID	0.5	U		0.66	U	A	9.58			2.51	U	A	
PERFLUOROTETRADECANOIC ACID	1	U		1	U		1	U		1	U		
PERFLUOROTRIDECANOIC ACID	0.5	U	A	0.5	U	A	0.5	U		0.5	U		
PERFLUOROUNDECANOIC ACID	1	U		1	U	A	1	U		1	U		

<b>PROJ_NO: 08005-JM08</b> <b>SDG: 18-0207</b> <b>FRACTION: PFAS</b> <b>MEDIA: WATER</b>	NSAMPLE	06GW16031718		
	LAB_ID	J5390-FS		
	SAMP_DATE	3/17/2018		
	QC_TYPE	NM		
	UNITS	NG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
N-ETHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID	1	U		
N-METHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID	2.5	U		
PENTADECAFLUOROOCTANOIC ACID	0.94	U	B	
PERFLUOROBUTANESULFONIC ACID	0.5	U	A	
PERFLUOROBUTANOIC ACID	0.5	U		
PERFLUORODECANOIC ACID	0.5	U		
PERFLUORODODECANOIC ACID	0.5	U		
PERFLUOROHEPTANOIC ACID	0.5	U		
PERFLUOROHEXANESULFONIC ACID	0.5	U	A	
PERFLUOROHEXANOIC ACID	0.5	U	A	
PERFLUORONONANOIC ACID	1	U		
PERFLUOROOCTANE SULFONIC ACID	1.47	U	A	
PERFLUOROTETRADECANOIC ACID	1	U		
PERFLUOROTRIDECANOIC ACID	0.5	U		
PERFLUOROUNDECANOIC ACID	1	U		

<b>PROJ_NO: 08005-JM08</b> <b>SDG: 18-0216</b> <b>FRACTION: PFAS</b> <b>MEDIA: WATER</b>	NSAMPLE	06GW09FRB0318			06GW14FRB0318			06GW15FRB0318		
	LAB_ID	J5386-FS			J5393-FS			J5391-FS		
	SAMP_DATE	3/17/2018			3/17/2018			3/17/2018		
	QC_TYPE	NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
N-ETHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	1	U		1	U		1	U		
N-METHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	2.5	U		2.5	U		2.5	U		
PENTADECAFLUROOCTANOIC ACID	0.18	J	P	0.5	U		0.5	U		
PERFLUOROBUTANESULFONIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUOROBUTANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUORODECANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUORODODECANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUROHEPTANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUROHEXANESULFONIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUROHEXANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLURONONANOIC ACID	1	U		1	U		1	U		
PERFLUROOCTANE SULFONIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUROTETRADECANOIC ACID	1	U		1	U		1	U		
PERFLUROTRIDECANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUROUNDECANOIC ACID	1	U		1	U		1	U		

**Appendix B**

Results as Reported by the Laboratory



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	06GW08031718		
Battelle ID	J5387-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/22/2018		
Analysis Date	03/28/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	GW		
Sample Size	0.265		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	48.12	0.50	5.00
PFNA	0.43 J	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 J	0.50	5.00
PFTTrDA	0.22 J	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	35.26	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	59 D
13C5-PFHxA	55
13C4-PFHpA	108
13C8-PFOA	85
13C9-PFNA	77
13C6-PFDA	95
13C7-PFUnA	103
13C2-PFDaA	89
13C2-PFTeDA	71
d3-MeFOSAA	126
d5-EtFOSAA	126
13C3-PFBS	90
13C3-PFHxS	111
13C8-PFOS	94

Analyzed by: Schumitz, Denise



Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW09031718

Battelle ID J5388-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/28/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.270  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	1.12 J	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	8.24	0.50	5.00
PFNA	0.32 J	1.00	5.00
PFDA	0.30 J	0.50	5.00
PFUnA	0.30 J	1.00	5.00
PFDaA	0.30 J	0.50	5.00
PFTeDA	0.16 J	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.15 J	0.50	5.00
PFHxS	10.96	0.50	5.00
PFOS	0.66 J	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	68 D
13C5-PFHxA	100
13C4-PFHpA	85
13C8-PFOA	64
13C9-PFNA	64
13C6-PFDA	71
13C7-PFUnA	75
13C2-PFDaA	63
13C2-PFTeDA	67
d3-MeFOSAA	82
d5-EtFOSAA	73
13C3-PFBS	110
13C3-PFHxS	93
13C8-PFOS	85

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW04031718

Battelle ID J5389-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/28/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.275  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	1.68 J	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	34.65	0.50	5.00
PFNA	0.36 J	1.00	5.00
PFDA	0.28 J	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.43 J	0.50	5.00
PFHxS	0.80 J	0.50	5.00
PFOS	3.86 J	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	74 D
13C5-PFHxA	110
13C4-PFHpA	121
13C8-PFOA	87
13C9-PFNA	74
13C6-PFDA	108
13C7-PFUnA	128
13C2-PFDaA	106
13C2-PFTeDA	79
d3-MeFOSAA	139
d5-EtFOSAA	144
13C3-PFBS	130
13C3-PFHxS	132
13C8-PFOS	120

Analyzed by: Schumitz, Denise

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW16031718

Battelle ID J5390-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/29/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.265  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.33 J	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.94 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.36 J	0.50	5.00
PFHxS	0.33 J	0.50	5.00
PFOS	1.47 J	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	57 D
13C5-PFHxA	114
13C4-PFHpA	125
13C8-PFOA	109
13C9-PFNA	94
13C6-PFDA	97
13C7-PFUnA	109
13C2-PFDaA	85
13C2-PFTeDA	52
d3-MeFOSAA	144
d5-EtFOSAA	147
13C3-PFBS	135
13C3-PFHxS	115
13C8-PFOS	126

Analyzed by: Schumitz, Denise

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW15031718

Battelle ID J5392-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/29/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.265  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	2.74 J	0.50	5.00
PFHxA	1.70 J	0.50	5.00
PFHpA	2.38 J	0.50	5.00
PFOA	4.50 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.70 J	0.50	5.00
PFHxS	1.24 J	0.50	5.00
PFOS	2.51 J	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	59 D
13C5-PFHxA	118
13C4-PFHpA	103
13C8-PFOA	90
13C9-PFNA	82
13C6-PFDA	88
13C7-PFUnA	95
13C2-PFDaA	66
13C2-PFTeDA	57
d3-MeFOSAA	89
d5-EtFOSAA	76
13C3-PFBS	132
13C3-PFHxS	107
13C8-PFOS	123

Analyzed by: Schumitz, Denise

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW14031718

Battelle ID J5394-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/29/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.280  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	28.94	0.50	5.00
PFHpA	24.37	0.50	5.00
PFOA	718.50 D	0.50	5.00
PFNA	1.00 J	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	7.83	0.50	5.00
PFHxS	7.73	0.50	5.00
PFOS	9.58	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	69 D
13C5-PFHxA	56
13C4-PFHpA	53
13C8-PFOA	54 D
13C9-PFNA	51 D
13C6-PFDA	94
13C7-PFUnA	93
13C2-PFDaA	73
13C2-PFTeDA	59
d3-MeFOSAA	104
d5-EtFOSAA	82
13C3-PFBS	135
13C3-PFHxS	126
13C8-PFOS	110

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW06031718

Battelle ID J5395-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/29/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.270  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	19.81	0.50	5.00
PFHpA	18.17	0.50	5.00
PFOA	0.18 U	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	3.28 J	0.50	5.00
PFHxS	6.71	0.50	5.00
PFOS	10.90	0.50	5.00

#### Surrogate Recoveries (%)

13C4-PFBA	57 D
13C5-PFHxA	81
13C4-PFHpA	102
13C8-PFOA	81
13C9-PFNA	70
13C6-PFDA	103
13C7-PFUnA	122
13C2-PFDaA	95
13C2-PFTeDA	62
d3-MeFOSAA	114
d5-EtFOSAA	80
13C3-PFBS	130
13C3-PFHxS	88
13C8-PFOS	87

Analyzed by: Schumitz, Denise

Printed: 4/4/2018



Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID 06GW03031718

Battelle ID J5396-FS  
 Sample Type SA  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/29/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.280  
 Size Unit-Basis L  
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	7.90	0.50	5.00
PFHpA	5.64	0.50	5.00
PFOA	59.57	0.50	5.00
PFNA	0.42 J	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	2.78 J	0.50	5.00
PFHxS	4.09 J	0.50	5.00
PFOS	2.45 J	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	62 D
13C5-PFHxA	111
13C4-PFHpA	90
13C8-PFOA	77
13C9-PFNA	64
13C6-PFDA	74
13C7-PFUnA	82
13C2-PFDaA	62
13C2-PFTeDA	55
d3-MeFOSAA	61
d5-EtFOSAA	64
13C3-PFBS	133
13C3-PFHxS	113
13C8-PFOS	114

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

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Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID	06FDGW0318		
Battelle ID	J5397-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/22/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	GW		
Sample Size	0.275		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	1.49 J	0.50	5.00
PFHpA	1.66 J	0.50	5.00
PFOA	38.48	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.42 J	0.50	5.00
PFHxS	0.39 J	0.50	5.00
PFOS	4.00 J	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	65 D
13C5-PFHxA	123
13C4-PFHpA	102
13C8-PFOA	80
13C9-PFNA	75
13C6-PFDA	94
13C7-PFUnA	124
13C2-PFDaA	92
13C2-PFTeDA	84
d3-MeFOSAA	103
d5-EtFOSAA	120
13C3-PFBS	102
13C3-PFHxS	124
13C8-PFOS	107

Analyzed by: Schumitz, Denise



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	06GW09FRB0318		
Battelle ID	J5386-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.260		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	89
13C5-PFHxA	101
13C4-PFHpA	104
13C8-PFOA	108
13C9-PFNA	113
13C6-PFDA	94
13C7-PFUnA	90
13C2-PFDaA	81
13C2-PFTeDA	56
d3-MeFOSAA	67
d5-EtFOSAA	95
13C3-PFBS	98
13C3-PFHxS	102
13C8-PFOS	116

Analyzed by: Schumitz, Denise



Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID	06GW15FRB0318		
Battelle ID	J5391-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.265		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 U	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	80
13C5-PFHxA	95
13C4-PFHpA	89
13C8-PFOA	94
13C9-PFNA	91
13C6-PFDA	95
13C7-PFUnA	96
13C2-PFDaA	78
13C2-PFTeDA	58
d3-MeFOSAA	81
d5-EtFOSAA	65
13C3-PFBS	77
13C3-PFHxS	69
13C8-PFOS	80

Analyzed by: Schumitz, Denise

Printed: 4/4/2018



Project Client: Tetra Tech  
 Project Name: PFAS Analytical v  
 Project Number: 100112541

Client ID	06GW14FRB0318		
Battelle ID	J5393-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.265		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 U	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

**Surrogate Recoveries (%)**

13C4-PFBA	85
13C5-PFHxA	90
13C4-PFHpA	94
13C8-PFOA	95
13C9-PFNA	102
13C6-PFDA	100
13C7-PFUnA	102
13C2-PFDaA	87
13C2-PFTeDA	58
d3-MeFOSAA	99
d5-EtFOSAA	91
13C3-PFBS	112
13C3-PFHxS	104
13C8-PFOS	114

Analyzed by: Schumitz, Denise

Isotope Dilution

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**Appendix C**

Support Documentation

ANALYTE		ORIGINAL	DUPLICATE	RL	RPD	RPD > 50%	ORIGINAL	DUPLICATE	DIFFERENCE >2XRL
		06GW04031718	06FDGW0318				SAMPLE CONC	SAMPLE CONC	
PERFLUOROHEXANOIC ACID	PFHxA	1.67	1.48	5	12.063	FALSE	FALSE	FALSE	FALSE
PENTADEC AFLUORO OCTANOIC ACID	PFOA	34.64	38.48	5	10.503	FALSE	TRUE	TRUE	FALSE
PERFLUORONONANOIC ACID	PFNA	0.35	0.26	5	29.508	FALSE	FALSE	FALSE	FALSE
PERFLUORODECANOIC ACID	PFDA	0.28	0.16	5	54.545	TRUE	FALSE	FALSE	FALSE
PERFLUOROBUTANESULFONIC ACID	PFBS	1.43	1.42	5	0.702	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEXANESULFONIC ACID	PFHxS	0.8	0.38	5	71.186	TRUE	FALSE	FALSE	FALSE
PERFLUORO OCTANE SULFONIC ACID	PFOS	3.85	3.99	5	3.571	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEPTANOIC ACID	PFHpA	0.16	1.66	5	164.835	TRUE	FALSE	FALSE	FALSE





It can be done

### Chain-of-Custody

<b>Client Contact Information</b>		Project Manager: <u>G. Roof</u>		Sampling Site: <u>NCRC Gulfport Side G</u>		Site Information:	
Sampler Information (print name): <u>W.D. Olson</u>		Phone: <u>850 443 6855</u>		Email: <u>William.Olson@tetratech.com</u>		COC # <u>L</u>	
Turnaround Time (TAT) Requested:		Normal Priority		RI/SH		Page# <u>L</u>	
Project Name: <u>112608005-Jm08</u>		Time Zone:		Analytic		MS/MSD	
Project No: <u>10015738-Jm08</u>		Sample Date		Sample Time		Sample Type	
Sample Identification		Matrix		Total # of Samples		Preservative	
JS386 <u>06GW09FRB0318</u>		<u>3-17-18</u>		<u>0905</u>		<u>Grub</u>	
JS387 <u>06GW08031718</u>				<u>0925</u>		<u>Grub SW</u>	
JS388 <u>06GW09031718</u>				<u>0923</u>		<u>Grub SW</u>	
JS389 <u>06GW04031718</u>				<u>0930</u>		<u>Grub SW</u>	
JS390 <u>06GW16031718</u>				<u>1023</u>		<u>Grub SW</u>	
JS391 <u>06GW15FRB0318</u>				<u>1025</u>		<u>QC QC</u>	
JS392 <u>06GW15031718</u>				<u>1030</u>		<u>Grub GW</u>	
JS393 <u>06GW14FRB0318</u>				<u>1035</u>		<u>QC QC</u>	
JS394 <u>06GW14031718</u>				<u>1040</u>		<u>Grub GW</u>	
JS395 <u>06GW06031718</u>				<u>1125</u>		<u>Grub GW</u>	
JS396 <u>06GW03031718</u>				<u>1205</u>		<u>Grub GW</u>	
JS397 <u>06FDGW0318</u>				<u>0000</u>		<u>QC GW</u>	
Receipt Temperature: (°C) <u>0.1<sup>d</sup></u>		Samples Intact: <u>Yes - No</u>		Samples on Ice: <u>Yes - No</u>		Receipt Comments:	
Relinquished by (Print/Sign) <u>W.D. Olson</u>		Company <u>TT</u>		Date/Time <u>3-17-18 1100</u>		Received by (Print/Sign) <u>Matt Schmittz</u>	
Relinquished by (Print/Sign)		Company		Date/Time		Received by (Print/Sign)	
Relinquished by (Print/Sign)		Company		Date/Time		Received by (Print/Sign)	
Relinquished by (Print/Sign)		Company		Date/Time		Received by (Print/Sign)	
Comments: <u>Fedex 8748 4755 5975</u>							



It can be done

ShpNo SHP-180320-02

Battelle Project No: \_\_\_\_\_

Sample Receipt Form Details

Approved:  Authorized

Project Number: 100115738-JM08

Client: Tetrattech

Received by: Schumitz, Matt

Date/Time Received: Tuesday, March 20, 2018 10:30 AM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
J5386	06GW09FRB0318	03/17/18 9:05	03/20/18 14:22	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5387	06GW08031718	03/17/18 9:25	03/20/18 14:22	6	GW	0.1	NA	NA	NA	R0118 (NA)			MSMSD
J5388	06GW09031718	03/17/18 9:23	03/20/18 14:25	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5389	06GW04031718	03/17/18 9:30	03/20/18 14:27	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5390	06GW16031718	03/17/18 10:23	03/20/18 14:28	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5391	06GW15FRB0318	03/17/18 10:25	03/20/18 14:28	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5392	06GW15031718	03/17/18 10:30	03/20/18 14:29	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5393	06GW14FRB0318	03/17/18 10:35	03/20/18 14:29	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5394	06GW14031718	03/17/18 10:40	03/20/18 14:30	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5395	06GW06031718	03/17/18 11:25	03/20/18 14:30	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5396	06GW03031718	03/17/18 12:05	03/20/18 14:31	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5397	06FDGW0318	03/17/18 0:00	03/20/18 14:31	2	GW	0.1	NA	NA	NA	R0118 (NA)			

Total Samples: 12

## QA/QC Summary Batch 18-0207

Project:	CTO-JM08 – Naval Construction Battalion Center (NCBC)
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	Water, GW
Data Set:	DP-18-0053
Analytical SOP:	5-369
Method Reference:	PFAS to QSM 5.1 Table B-15

### Sample Custody

Collection Date	Receipt Date	Temp (°C)
3/17/2018	3/20/2018	0.1
Corrective Actions	<ul style="list-style-type: none"> <li>Chain of Custody forms were not signed. Client signed and send scanned copy to the laboratory.</li> <li>One sample did not indicate the correct number of samples received. Client corrected sample counts via email.</li> </ul>	
Sample Storage	The water samples were stored refrigerated until extraction.	
Related samples	Field reagent blanks 06GW09FRB0318, 06GW15FRB0318, and 06GW14FRB0318 were extracted in batch 18-0216 are associated with these samples.	

### METHOD SUMMARIES

Sample Preparation	Water samples were spiked with surrogates in the original sample container from the field. The water was extracted using a weak ion exchange solid phase extraction (SPE) cartridge and eluted from the SPE with 0.4% NH <sub>3</sub> in methanol. Extracts were split and concentrated to dryness under nitrogen with a water bath set between 50 °C and 60 °C, reconstituted with 80:20 methanol/water (V/V) and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis.
Prep comments	Due to particulate matter present in the sample containers, laboratory sample IDs J5387, the MS/MSD associated with J5387, and J5392 were centrifuged prior to fortification with labelled analogs.
Analysis	PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations.
Analysis Comments	<p>Battelle sample IDs J5394 and J5396 for PFNA contain both branched and linear isomers.</p> <p>Battelle sample IDs J5388, J5389, J5390, J5392, J5394, J5395, J5396, and J5397 for PFOS contain both branched and linear isomers.</p> <p>Samples analyzed on Sciex 5500 LC-MS/MS.</p> <p>The injection internal standard 13C2-PFOA in laboratory sample ID J5394 was above criteria due to matrix effects. This sample was diluted and the extracted</p>

**QA/QC Summary**  
**Batch 18-0207**

	<p>internal standards associated with this standard were quantified and reported from the dilution.</p> <p>The injection internal standard 13C3-PFBA in laboratory sample ID J5387, J5387MS, J5387MSD, J5388, J5389, J5394, J5395, J5396, and J5397 were above criteria due to matrix effects. These samples were diluted, and the extracted internal standard was quantified and reported from the dilution.</p>	
Holding Times	Extraction Date(s)	Analysis Date(s)
	3/22/2018	3/28/2018 – 3/30/2018
Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.	
≤ ½ the LOQ Samples >10x PB	No exceedances noted.	
	No comments.	
Laboratory Control Spike (LCS)	A LCS was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.	
Laboratory derived control limits for recovery	No exceedances noted.	
	No comments.	
Matrix Spike (MS) / Duplicate (MSD)	A MS/MSD were prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. The relative percent difference was calculated to measure precision.	
Laboratory derived control limits for recovery, RPD ≤ 30%	No exceedances noted.	
	No Comments.	
Extracted Internal Standard Analytes	Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.	
50-150% of true value	No exceedances noted.	
	No Comments.	
Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.	
+/- 30% of true value, R <sup>2</sup> ≥0.99	No exceedances noted.	
	No comments.	
Independent Calibration Check (ICC)	The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL.	

**QA/QC Summary**  
**Batch 18-0207**

+/- 30% of true value	No exceedances noted.
	No comments.
Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted.
	No comments.
Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
$\leq \frac{1}{2}$ the LOQ	No exceedances noted.
	No comments.



## BATTELLE - NORWELL OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

<b>Project Title:</b> PFAS Analytical work	<b>Data Set Number:</b> DP-18-0053
<b>Project Number:</b> 100112541	<b>Prep Batch Number:</b> 18-0207
<b>Entered By:</b> Denise Schumitz	<b>Entered On:</b> 04/04/2018
<b>Test Code (Matrix Type):</b> Master_369(L)	

JU12 is not being used in the calibration curve for d3-MeFOSAA in the SIS method and NMeFOSAA from the Base method. There is no impact on the data once this point is dropped from the curve.  
DMS 4/4/2018

JU04 is not being used in the calibration curve for PFHpA, PFOA, PFOS, PFTTrDA, PFTeDA, NMeFOSAA and PFBA in the Base method. There is no impact on the data once this point is dropped from the curve.  
DMS 4/4/2018

JU05 is not being used in the calibration curve for PFHpA, PFTeDA, NMeFOSAA and PFBA in the Base method. There is no impact on the data once this point is dropped from the curve.  
DMS 4/4/2018

13C2-PFOA, the internal standard is above the passing criteria in sample J5394 due to contribution of the sample matrix. The sample was diluted and 13-C2-PFOA is being reported from the dilution.  
DMS 4/4/2018

13C3-PFBA, the internal standard is above the passing criteria in samples J5387, J5387MS, J5387MSD, J5388, J5389, J5390, J5394, J5395, J5396 and J5397 due to contribution of the sample matrix. The samples were diluted and 13C4-PFBA is being reported from the dilutions.  
DMS 4/4/2018

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).  
DMS 4/4/2018

**Task Leader Approval:**

**Supervisor Approval:**

**PM Approval:**

Digitally signed by Jonathan  
Thorn

Date: 2018.04.06 12:17:00 -04'00'



## IS Area Report

Batch: 18-0207

Result Table: 18-0207\_SIS &amp; 18-0207\_SIS\_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
19	JU04	Standard	3/28/2018 19:46	13C2-PFOA	28110	12525	37575	Pass
37	JU05	Standard	3/28/2018 19:57	13C2-PFOA	23700	12525	37575	Pass
55	JU06	Standard	3/28/2018 20:08	13C2-PFOA	25050	12525	37575	Pass
73	JU07	Standard	3/28/2018 20:19	13C2-PFOA	30300	12525	37575	Pass
91	JU08	Standard	3/28/2018 20:30	13C2-PFOA	25080	12525	37575	Pass
109	JU09	Standard	3/28/2018 20:40	13C2-PFOA	26460	12525	37575	Pass
127	JU10	Standard	3/28/2018 20:51	13C2-PFOA	26410	12525	37575	Pass
145	JU11	Standard	3/28/2018 21:02	13C2-PFOA	26170	12525	37575	Pass
163	JU12	Standard	3/28/2018 21:13	13C2-PFOA	34000	12525	37575	Pass
181	JP83 IB	Quality Control	3/28/2018 21:23	13C2-PFOA	31350	12525	37575	Pass
199	JU13 ICC	Quality Control	3/28/2018 21:34	13C2-PFOA	25470	12525	37575	Pass
217	JU38 Branch	Quality Control	3/28/2018 21:45	13C2-PFOA	29970	12525	37575	Pass
253	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C2-PFOA	31470	12525	37575	Pass
271	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C2-PFOA	30570	12525	37575	Pass
289	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C2-PFOA	18260	12525	37575	Pass
307	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C2-PFOA	18400	12525	37575	Pass
325	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C2-PFOA	19240	12525	37575	Pass
343	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C2-PFOA	31480	12525	37575	Pass
361	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C2-PFOA	22510	12525	37575	Pass
379	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C2-PFOA	30610	12525	37575	Pass
397	JU09 CCV	Quality Control	3/29/2018 0:16	13C2-PFOA	30300	12525	37575	Pass
433	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C2-PFOA	24650	12525	37575	Pass
451	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C2-PFOA	68540	12525	37575	Fail <sup>1</sup>
469	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C2-PFOA	28170	12525	37575	Pass
487	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C2-PFOA	23950	12525	37575	Pass
505	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C2-PFOA	28560	12525	37575	Pass
523	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C2-PFOA	32410	12525	37575	Pass
541	JU10 CCV	Quality Control	3/29/2018 1:42	13C2-PFOA	31930	12525	37575	Pass
20	JU04	Standard	3/28/2018 19:46	13C4-PFOS	10060	4801	14402	Pass
38	JU05	Standard	3/28/2018 19:57	13C4-PFOS	8431	4801	14402	Pass
56	JU06	Standard	3/28/2018 20:08	13C4-PFOS	9601	4801	14402	Pass
74	JU07	Standard	3/28/2018 20:19	13C4-PFOS	10710	4801	14402	Pass
92	JU08	Standard	3/28/2018 20:30	13C4-PFOS	8102	4801	14402	Pass
110	JU09	Standard	3/28/2018 20:40	13C4-PFOS	10010	4801	14402	Pass
128	JU10	Standard	3/28/2018 20:51	13C4-PFOS	7234	4801	14402	Pass
146	JU11	Standard	3/28/2018 21:02	13C4-PFOS	7902	4801	14402	Pass
182	JP83 IB	Quality Control	3/28/2018 21:23	13C4-PFOS	9601	4801	14402	Pass

## IS Area Report

Batch: 18-0207

Result Table: 18-0207\_SIS &amp; 18-0207\_SIS\_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
200	JU13 ICC	Quality Control	3/28/2018 21:34	13C4-PFOS	9201	4801	14402	Pass
218	JU38 Branch	Quality Control	3/28/2018 21:45	13C4-PFOS	10110	4801	14402	Pass
254	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C4-PFOS	9743	4801	14402	Pass
272	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C4-PFOS	8607	4801	14402	Pass
290	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C4-PFOS	4915	4801	14402	Pass
308	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C4-PFOS	4974	4801	14402	Pass
326	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C4-PFOS	4805	4801	14402	Pass
344	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C4-PFOS	9823	4801	14402	Pass
362	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C4-PFOS	5273	4801	14402	Pass
380	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C4-PFOS	7482	4801	14402	Pass
398	JU09 CCV	Quality Control	3/29/2018 0:16	13C4-PFOS	10350	4801	14402	Pass
434	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C4-PFOS	6840	4801	14402	Pass
452	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C4-PFOS	7055	4801	14402	Pass
470	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C4-PFOS	10830	4801	14402	Pass
488	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C4-PFOS	6163	4801	14402	Pass
506	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C4-PFOS	7646	4801	14402	Pass
524	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C4-PFOS	8738	4801	14402	Pass
542	JU10 CCV	Quality Control	3/29/2018 1:42	13C4-PFOS	9198	4801	14402	Pass
21	JU04	Standard	3/28/2018 19:46	13C2-PFDA	41340	19225	57675	Pass
39	JU05	Standard	3/28/2018 19:57	13C2-PFDA	33110	19225	57675	Pass
57	JU06	Standard	3/28/2018 20:08	13C2-PFDA	38450	19225	57675	Pass
75	JU07	Standard	3/28/2018 20:19	13C2-PFDA	41500	19225	57675	Pass
93	JU08	Standard	3/28/2018 20:30	13C2-PFDA	35120	19225	57675	Pass
111	JU09	Standard	3/28/2018 20:40	13C2-PFDA	38600	19225	57675	Pass
129	JU10	Standard	3/28/2018 20:51	13C2-PFDA	33750	19225	57675	Pass
147	JU11	Standard	3/28/2018 21:02	13C2-PFDA	35090	19225	57675	Pass
165	JU12	Standard	3/28/2018 21:13	13C2-PFDA	48470	19225	57675	Pass
183	JP83 IB	Quality Control	3/28/2018 21:23	13C2-PFDA	42790	19225	57675	Pass
201	JU13 ICC	Quality Control	3/28/2018 21:34	13C2-PFDA	34240	19225	57675	Pass
219	JU38 Branch	Quality Control	3/28/2018 21:45	13C2-PFDA	39510	19225	57675	Pass
255	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C2-PFDA	47690	19225	57675	Pass
273	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C2-PFDA	41370	19225	57675	Pass
291	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C2-PFDA	24290	19225	57675	Pass
309	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C2-PFDA	24780	19225	57675	Pass
327	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C2-PFDA	22750	19225	57675	Pass
345	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C2-PFDA	38400	19225	57675	Pass
363	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C2-PFDA	22860	19225	57675	Pass
381	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C2-PFDA	40110	19225	57675	Pass

## IS Area Report

Batch: 18-0207

Result Table: 18-0207\_SIS &amp; 18-0207\_SIS\_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
399	JU09 CCV	Quality Control	3/29/2018 0:16	13C2-PFDA	43390	19225	57675	Pass
435	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C2-PFDA	32750	19225	57675	Pass
453	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C2-PFDA	37930	19225	57675	Pass
471	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C2-PFDA	44650	19225	57675	Pass
489	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C2-PFDA	25650	19225	57675	Pass
507	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C2-PFDA	31410	19225	57675	Pass
525	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C2-PFDA	35380	19225	57675	Pass
543	JU10 CCV	Quality Control	3/29/2018 1:42	13C2-PFDA	41760	19225	57675	Pass
35	JU04	Standard	3/28/2018 19:46	13C3-PFBA	22390	10370	31110	Pass
53	JU05	Standard	3/28/2018 19:57	13C3-PFBA	19360	10370	31110	Pass
71	JU06	Standard	3/28/2018 20:08	13C3-PFBA	20740	10370	31110	Pass
89	JU07	Standard	3/28/2018 20:19	13C3-PFBA	22300	10370	31110	Pass
107	JU08	Standard	3/28/2018 20:30	13C3-PFBA	19470	10370	31110	Pass
125	JU09	Standard	3/28/2018 20:40	13C3-PFBA	24980	10370	31110	Pass
143	JU10	Standard	3/28/2018 20:51	13C3-PFBA	21600	10370	31110	Pass
161	JU11	Standard	3/28/2018 21:02	13C3-PFBA	22240	10370	31110	Pass
179	JU12	Standard	3/28/2018 21:13	13C3-PFBA	22470	10370	31110	Pass
197	JP83 IB	Quality Control	3/28/2018 21:23	13C3-PFBA	23000	10370	31110	Pass
215	JU13 ICC	Quality Control	3/28/2018 21:34	13C3-PFBA	21670	10370	31110	Pass
233	JU38 Branch	Quality Control	3/28/2018 21:45	13C3-PFBA	21900	10370	31110	Pass
269	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C3-PFBA	20980	10370	31110	Pass
287	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C3-PFBA	21260	10370	31110	Pass
305	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C3-PFBA	1068000	10370	31110	Fail <sup>1</sup>
323	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C3-PFBA	965900	10370	31110	Fail <sup>1</sup>
341	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C3-PFBA	1037000	10370	31110	Fail <sup>1</sup>
359	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C3-PFBA	41620	10370	31110	Fail <sup>1</sup>
377	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C3-PFBA	33570	10370	31110	Fail <sup>1</sup>
395	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C3-PFBA	67750	10370	31110	Fail <sup>1</sup>
413	JU09 CCV	Quality Control	3/29/2018 0:16	13C3-PFBA	25530	10370	31110	Pass
449	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C3-PFBA	23170	10370	31110	Pass
467	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C3-PFBA	146600	10370	31110	Fail <sup>1</sup>
485	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C3-PFBA	18180	10370	31110	Pass
503	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C3-PFBA	201800	10370	31110	Fail <sup>1</sup>
521	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C3-PFBA	31620	10370	31110	Fail <sup>1</sup>
539	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C3-PFBA	54880	10370	31110	Fail <sup>1</sup>
557	JU10 CCV	Quality Control	3/29/2018 1:42	13C3-PFBA	19780	10370	31110	Pass

**IS Area Report**

Batch: 18-0207

Result Table: 18-0207\_SIS &amp; 18-0207\_SIS\_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
4	JU04	Standard	3/29/2018 19:46	13C3-PFBA	27720	11490	34470	Pass
6	JU05	Standard	3/29/2018 19:57	13C3-PFBA	30010	11490	34470	Pass
8	JU06	Standard	3/29/2018 20:08	13C3-PFBA	22980	11490	34470	Pass
10	JU07	Standard	3/29/2018 20:19	13C3-PFBA	24680	11490	34470	Pass
12	JU08	Standard	3/29/2018 20:29	13C3-PFBA	22300	11490	34470	Pass
14	JU09	Standard	3/29/2018 20:40	13C3-PFBA	26380	11490	34470	Pass
16	JU10	Standard	3/29/2018 20:51	13C3-PFBA	24160	11490	34470	Pass
18	JU11	Standard	3/29/2018 21:02	13C3-PFBA	19020	11490	34470	Pass
20	JU12	Standard	3/29/2018 21:12	13C3-PFBA	27900	11490	34470	Pass
22	JP83 IB	Quality Control	3/29/2018 21:23	13C3-PFBA	29780	11490	34470	Pass
24	JU13 ICC	Quality Control	3/29/2018 21:34	13C3-PFBA	24700	11490	34470	Pass
26	JU38 Branch	Quality Control	3/29/2018 21:45	13C3-PFBA	24470	11490	34470	Pass
30	J5387-FS-D(5)	Quality Control	3/29/2018 23:22	13C3-PFBA	17270	11490	34470	Pass
32	J5387MS-FS-D(5)	Quality Control	3/29/2018 23:33	13C3-PFBA	21710	11490	34470	Pass
34	J5387MSD-FS-D(5)	Quality Control	3/29/2018 23:43	13C3-PFBA	20960	11490	34470	Pass
36	J5388-FS-D(5)	Quality Control	3/29/2018 23:54	13C3-PFBA	18080	11490	34470	Pass
38	J5389-FS-D(5)	Quality Control	3/30/2018 0:05	13C3-PFBA	17020	11490	34470	Pass
40	J5390-FS-D(5)	Quality Control	3/30/2018 0:16	13C3-PFBA	23680	11490	34470	Pass
42	JU10 CCV	Quality Control	3/30/2018 0:26	13C3-PFBA	22580	11490	34470	Pass
46	J5392-FS-D(5)	Quality Control	3/30/2018 0:48	13C3-PFBA	19550	11490	34470	Pass
48	J5395-FS-D(5)	Quality Control	3/30/2018 0:59	13C3-PFBA	22490	11490	34470	Pass
50	J5396-FS-D(5)	Quality Control	3/30/2018 1:10	13C3-PFBA	20280	11490	34470	Pass
52	J5397-FS-D(5)	Quality Control	3/30/2018 1:20	13C3-PFBA	18880	11490	34470	Pass
54	JU08 CCV	Quality Control	3/30/2018 1:31	13C3-PFBA	20630	11490	34470	Pass

<sup>1</sup> - See Misc Doc DMS 4/4/2018



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	JP83 IB		
Battelle ID	JP83 IB_03/28/2018		
Sample Type	IB		
Collection Date	NA		
Extraction Date	NA		
Analysis Date	03/28/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	NA		
Sample Size	NA		
Size Unit-Basis	NA		
Units	ng/L	LOD	LOQ
PFBA	0.20	0.50	5.00
PFHxA	1.08	0.50	5.00
PFHpA	1.26	0.50	5.00
PFOA	1.11	0.50	5.00
PFNA	1.03	1.00	5.00
PFDA	1.10	0.50	5.00
PFUnA	1.01	1.00	5.00
PFDaA	1.09	0.50	5.00
PFTTrDA	1.05	0.50	5.00
PFTeDA	0.93	1.00	5.00
NMeFOSAA	1.05	2.50	5.00
NEtFOSAA	1.72	1.00	5.00
PFBS	0.95	0.50	5.00
PFHxS	1.00	0.50	5.00
PFOS	1.13	0.50	5.00

ALL RESULTS < 1/2 LOQ

**Surrogate Recoveries (%)**

13C4-PFBA	104
13C5-PFHxA	87
13C4-PFHpA	93
13C8-PFOA	100
13C9-PFNA	97
13C6-PFDA	101
13C7-PFUnA	100
13C2-PFDaA	95
13C2-PFTeDA	89
d3-MeFOSAA	112
d5-EtFOSAA	93
13C3-PFBS	101
13C3-PFHxS	110
13C8-PFOS	92



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	Procedural Blank		
Battelle ID	CQ320PB-FS		
Sample Type	PB		
Collection Date	03/22/2018		
Extraction Date	03/22/2018		
Analysis Date	03/28/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	WATER		
Sample Size	0.250		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.28 J	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.22 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDoA	0.18 U	0.50	5.00
PFTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

ALL RESULTS < 1/3 LOQ

**Surrogate Recoveries (%)**

13C4-PFBA	111
13C5-PFHxA	103
13C4-PFHpA	93
13C8-PFOA	99
13C9-PFNA	99
13C6-PFDA	95
13C7-PFUnA	114
13C2-PFDoA	84
13C2-PFTeDA	54
d3-MeFOSAA	99
d5-EtFOSAA	115
13C3-PFBS	123
13C3-PFHxS	105
13C8-PFOS	119





Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	Laboratory Control Sample			
Battelle ID	CQ321LCS-FS			
Sample Type	LCS			
Collection Date	03/22/2018			
Extraction Date	03/22/2018			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	WATER			
Sample Size	0.250			
Size Unit-Basis	L			
Units	ng/L	Target	Recovery	Qual
PFBA	12.65	10.00	127	
PFHxA	10.67	10.10	106	
PFHpA	9.40	10.00	94	
PFOA	10.03	10.00	100	
PFNA	10.22	10.00	102	
PFDA	11.55	10.00	116	
PFUnA	10.26	10.00	103	
PFDoA	11.07	10.00	111	
PFTTrDA	13.87	10.00	139	
PFTeDA	12.40	10.00	124	
NMeFOSAA	10.41	10.00	104	
NEtFOSAA	10.46	10.00	105	
PFBS	12.57	10.10	124	
PFHxS	10.99	10.10	109	
PFOS	10.66	10.00	107	

70-130% LIMITS

**Surrogate Recoveries (%)**

13C4-PFBA	108
13C5-PFHxA	98
13C4-PFHpA	89
13C8-PFOA	96
13C9-PFNA	94
13C6-PFDA	103
13C7-PFUnA	109
13C2-PFDoA	98
13C2-PFTeDA	72
d3-MeFOSAA	130
d5-EtFOSAA	127
13C3-PFBS	110
13C3-PFHxS	116
13C8-PFOS	101



Project Client: Tetra Tech  
 Project Name: PFAS Analytical w  
 Project Number: 100112541

Client ID 06GW08031718

Battelle ID J5387MS-FS

Sample Type MS

Collection Date 03/17/2018

Extraction Date 03/22/2018

Analysis Date 03/28/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix GW

Sample Size 0.255

Size Unit-Basis L

Units ng/L Target Recovery Qual

	ng/L	Target	Recovery	Qual
PFBA	39.38	39.22	100	
PFHxA	33.01	39.61	83	
PFHpA	35.08	39.22	89	
PFOA	83.32	39.22	90	
PFNA	30.44	39.22	77	
PFDA	37.04	39.22	94	
PFUnA	33.60	39.22	86	
PFDoA	37.65	39.22	96	
PFTrDA	49.62	39.22	126	
PFTeDA	46.40	39.22	118	
NMeFOSAA	33.58	39.22	86	
NEtFOSAA	44.77	39.22	114	
PFBS	74.14	39.61	98	
PFHxS	48.00	39.61	121	
PFOS	33.61	39.22	86	

70-130% LIMITS

**Surrogate Recoveries (%)**

13C4-PFBA	51 D
13C5-PFHxA	65
13C4-PFHpA	89
13C8-PFOA	84
13C9-PFNA	87
13C6-PFDA	83
13C7-PFUnA	97
13C2-PFDoA	99
13C2-PFTeDA	72
d3-MeFOSAA	126
d5-EtFOSAA	98
13C3-PFBS	90
13C3-PFHxS	94
13C8-PFOS	89



Project Client: Tetra Tech  
 Project Name: PFAS Analytical w  
 Project Number: 100112541

Client ID 06GW08031718

Battelle ID J5387MSD-FS  
 Sample Type MSD  
 Collection Date 03/17/2018  
 Extraction Date 03/22/2018  
 Analysis Date 03/28/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.260  
 Size Unit-Basis L  
 Units ng/L

	ng/L	Target	Recovery	Qual	RPD	Qual
PFBA	41.10	38.46	107		6.8	
PFHxA	31.25	38.85	80		3.7	
PFHpA	35.23	38.46	92		3.3	
PFOA	83.99	38.46	93		3.3	
PFNA	29.76	38.46	76		1.3	
PFDA	36.78	38.46	96		2.1	
PFUnA	33.14	38.46	86		0.0	
PFDoA	35.46	38.46	92		4.3	
PFTrDA	46.11	38.46	119		5.7	
PFTeDA	44.38	38.46	115		2.6	70-130% LIMITS
NMeFOSAA	32.75	38.46	85		1.2	
NEtFOSAA	42.65	38.46	111		2.7	
PFBS	70.34	38.85	90		8.5	
PFHxS	43.26	38.85	111		8.6	
PFOS	31.47	38.46	82		4.8	

#### Surrogate Recoveries (%)

13C4-PFBA	51 D
13C5-PFHxA	54
13C4-PFHpA	97
13C8-PFOA	84
13C9-PFNA	88
13C6-PFDA	106
13C7-PFUnA	127
13C2-PFDoA	128
13C2-PFTeDA	98
d3-MeFOSAA	139
d5-EtFOSAA	117
13C3-PFBS	103
13C3-PFHxS	108
13C8-PFOS	109

**Analyte:** PFBS\_1 (298.9 / 80.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	7067	1.44	7624	25.25000	23.133236	92
JU05	Standard	3/28/2018 7:57:43 PM	9164	1.45	5397	50.50000	55.886592	111
JU06	Standard	3/28/2018 8:08:31 PM	17380	1.44	7137	101.00000	87.163084	86
JU07	Standard	3/28/2018 8:19:19 PM	47000	1.44	8127	252.50000	229.381129	91
JU08	Standard	3/28/2018 8:30:06 PM	80600	1.44	6981	505.00000	474.110294	94
JU09	Standard	3/28/2018 8:40:53 PM	171900	1.44	6174	1010.00000	1166.027800	115
JU10	Standard	3/28/2018 8:51:40 PM	407900	1.44	6280	2525.00000	2741.992350	109
JU11	Standard	3/28/2018 9:02:26 PM	1893000	1.44	7335	10100.00000	10943.205444	108
JU12	Standard	3/28/2018 9:13:13 PM	5352000	1.43	11920	20200.00000	19048.350072	94
JP83 IB	Unknown	3/28/2018 9:23:58 PM	20480	1.45	7792	N/A	95.420106	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	158200	1.44	5272	1010.00000	1257.837991	125
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	6302	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	9613	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	581800	1.43	7825	N/A	3141.399150	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	780700	1.45	3542	N/A	9345.151850	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1610000	1.42	3615	N/A	18905.421746	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1707000	1.42	3960	N/A	18287.474855	N/A

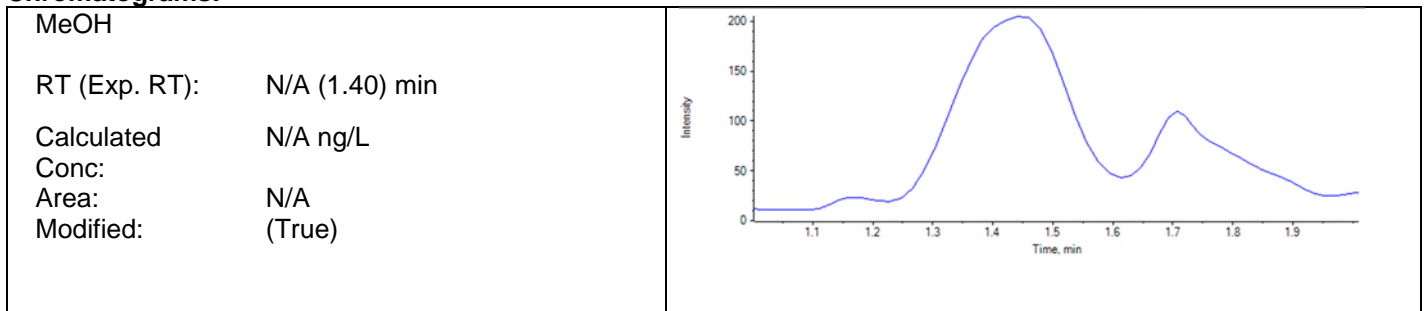
70-130%

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	66640	1.43	8645	N/A	311.142877	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	53170	1.44	5512	N/A	393.438881	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	21380	1.43	8134	N/A	95.367008	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	252200	1.42	9332	1010.00000	1131.720862	112
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	95810	1.43	8740	N/A	449.292866	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	411400	1.43	8240	N/A	2104.379127	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>9855</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	150900	1.46	7095	N/A	886.902703	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	168500	1.43	8998	N/A	778.875211	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	68370	1.42	7129	N/A	391.103499	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	587600	1.42	8791	2525.00000	2822.659354	112

70-130%

Dilution not needed. DMS 4/4/2018

**Chromatograms:**



**Analyte:** PFBS\_2 (298.9 / 99.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

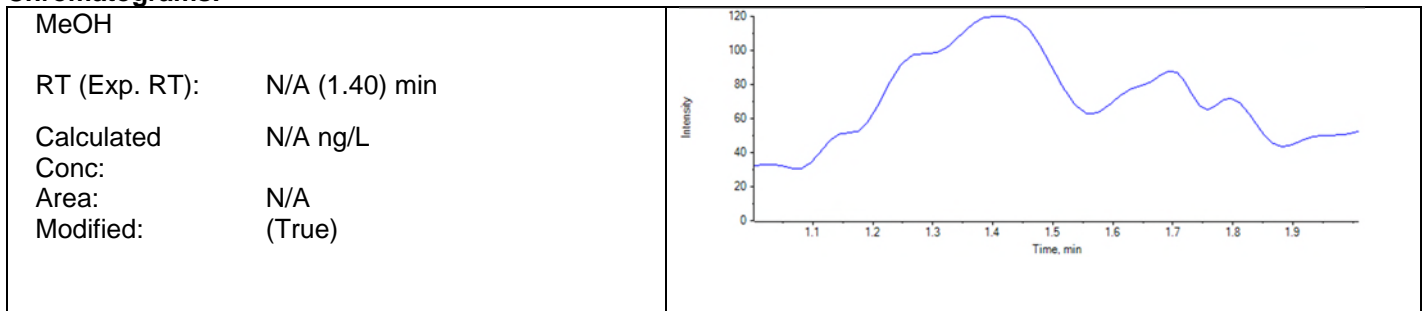
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	2476	1.45	7624	25.25000	22.827342	90
JU05	Standard	3/28/2018 7:57:43 PM	3028	1.44	5397	50.50000	54.920579	109
JU06	Standard	3/28/2018 8:08:31 PM	6129	1.44	7137	101.00000	95.348578	94
JU07	Standard	3/28/2018 8:19:19 PM	15190	1.44	8127	252.50000	232.612471	92
JU08	Standard	3/28/2018 8:30:06 PM	24160	1.44	6981	505.00000	448.640793	89
JU09	Standard	3/28/2018 8:40:53 PM	54390	1.43	6174	1010.00000	1174.990896	116
JU10	Standard	3/28/2018 8:51:40 PM	124800	1.44	6280	2525.00000	2677.209151	106
JU11	Standard	3/28/2018 9:02:26 PM	593400	1.44	7335	10100.00000	10965.358307	109
JU12	Standard	3/28/2018 9:13:13 PM	1679000	1.43	11920	20200.00000	19097.341882	95
JP83 IB	Unknown	3/28/2018 9:23:58 PM	6815	1.45	7792	N/A	97.491492	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	50690	1.44	5272	1010.00000	1284.502581	127
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	6302	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	1035	1.43	9613	N/A	< 0	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	186500	1.43	7825	N/A	3215.445009	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	29070	1.44	3542	N/A	1093.439452	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	340900	1.40	3615	N/A	12787.443950	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	364100	1.40	3960	N/A	12465.046260	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	22380	1.43	8645	N/A	330.342657	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	4634	1.44	5512	N/A	92.902015	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	5997	1.43	8134	N/A	78.831128	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	81780	1.42	9332	1010.00000	1168.897379	116
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	27690	1.43	8740	N/A	408.953049	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	108700	1.42	8240	N/A	1770.370560	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	9855	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	31080	1.42	7095	N/A	573.683844	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	41890	1.42	8998	N/A	610.949885	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	3848	1.41	7129	N/A	52.022389	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	187400	1.42	8791	2525.00000	2873.933340	114

**Chromatograms:**



**Analyte:** PFHxA\_1 (313.0 / 269.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	7519	1.72	26380	25.25000	29.323363	116
JU05	Standard	3/28/2018 7:57:43 PM	10560	1.72	20490	50.50000	54.845712	109
JU06	Standard	3/28/2018 8:08:31 PM	20920	1.72	22020	101.00000	103.073511	102
JU07	Standard	3/28/2018 8:19:19 PM	52000	1.71	23110	252.50000	247.279848	98
JU08	Standard	3/28/2018 8:30:06 PM	89040	1.71	23570	505.00000	416.678143	83
JU09	Standard	3/28/2018 8:40:53 PM	195500	1.71	23600	1010.00000	916.426719	91
JU10	Standard	3/28/2018 8:51:40 PM	481100	1.71	21960	2525.00000	2427.864390	96
JU11	Standard	3/28/2018 9:02:26 PM	2237000	1.71	22520	10100.00000	11013.601074	109
JU12	Standard	3/28/2018 9:13:13 PM	6149000	1.70	34860	20200.00000	19560.157239	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	24050	1.72	24230	N/A	107.804579	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	188900	1.71	20340	1010.00000	1027.676684	102
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	25490	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	28710	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	642200	1.71	26680	N/A	2666.972250	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	7903	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	592400	1.67	7804	N/A	8416.887747	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	680000	1.67	9280	N/A	8124.381611	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	76610	1.70	27880	N/A	302.476811	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	91430	1.70	21900	N/A	460.862254	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	25170	1.70	31110	N/A	87.436032	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	294800	1.70	34120	1010.00000	956.025217	95
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	105700	1.70	25840	N/A	451.568125	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	2294000	1.70	32700	N/A	7780.631221	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>33950</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	834900	1.69	17300	N/A	5349.342042	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	562600	1.70	28190	N/A	2211.471198	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	131300	1.68	35380	N/A	409.415104	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	723300	1.70	33030	2525.00000	2426.640285	96

Dilution not needed. DMS 4/4/2018

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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**Analyte:** PFHxA\_2 (313.0 / 119.0)

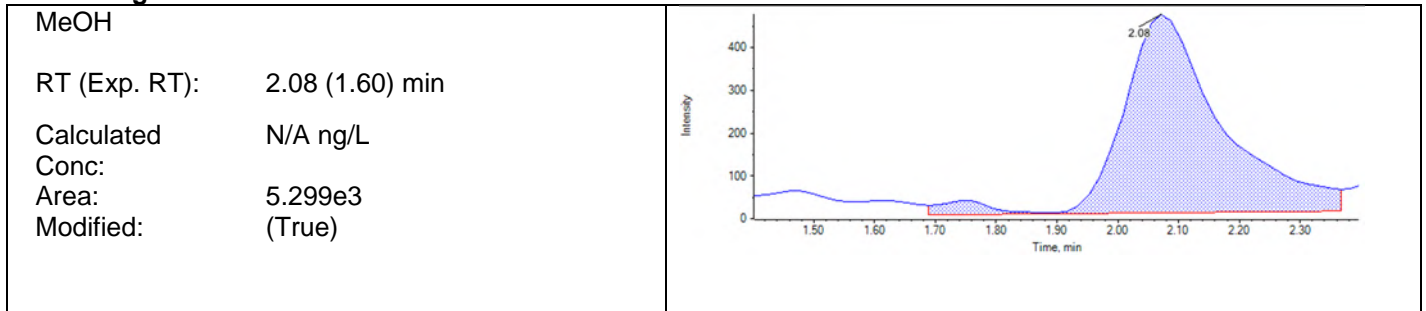
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	5299	2.08	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	445	1.70	26380	25.25000	25.788130	102
JU05	Standard	3/28/2018 7:57:43 PM	824	1.71	20490	50.50000	61.613692	122
JU06	Standard	3/28/2018 8:08:31 PM	1410	1.71	22020	101.00000	98.228932	97
JU07	Standard	3/28/2018 8:19:19 PM	4119	1.71	23110	252.50000	273.750615	108
JU08	Standard	3/28/2018 8:30:06 PM	5819	1.71	23570	505.00000	379.136656	75
JU09	Standard	3/28/2018 8:40:53 PM	13940	1.71	23600	1010.00000	907.452133	90
JU10	Standard	3/28/2018 8:51:40 PM	36130	1.71	21960	2525.00000	2528.019149	100
JU11	Standard	3/28/2018 9:02:26 PM	160400	1.71	22520	10100.00000	10944.260977	108
JU12	Standard	3/28/2018 9:13:13 PM	443600	1.70	34860	20200.00000	19550.999717	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1406	1.72	24230	N/A	88.985754	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	12210	1.71	20340	1010.00000	922.117767	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	772	1.72	25490	N/A	46.384834	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	28710	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	43610	1.70	26680	N/A	2510.851587	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	12040	1.67	7903	N/A	2340.372447	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	59340	1.67	7804	N/A	11682.783952	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	63710	1.67	9280	N/A	10547.859185	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	5547	1.70	27880	N/A	305.553495	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	5821	1.69	21900	N/A	408.289222	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	2387	1.69	31110	N/A	117.751968	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	21470	1.70	34120	1010.00000	966.802955	96
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	8799	1.70	25840	N/A	523.014401	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	158000	1.70	32700	N/A	7423.578473	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	33950	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	54040	1.69	17300	N/A	4798.242408	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	38900	1.70	28190	N/A	2120.279281	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	4998	1.69	35380	N/A	216.892300	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	51060	1.70	33030	2525.00000	2375.430661	94

**Chromatograms:**



**Analyte:** PFHpA\_1 (363.0 / 319.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	5627	2.08	31110	25.00000	56.060215	224
JU05	Standard	3/28/2018 7:57:43 PM	8538	2.09	26830	50.00000	75.562014	151
JU06	Standard	3/28/2018 8:08:31 PM	18530	2.09	27320	100.00000	126.677290	127
JU07	Standard	3/28/2018 8:19:19 PM	47710	2.08	30630	250.00000	251.606443	101
JU08	Standard	3/28/2018 8:30:06 PM	79390	2.08	27800	500.00000	435.826509	87
JU09	Standard	3/28/2018 8:40:53 PM	166000	2.08	26380	1000.00000	923.643237	92
JU10	Standard	3/28/2018 8:51:40 PM	385600	2.08	24570	2500.00000	2258.900966	90
JU11	Standard	3/28/2018 9:02:26 PM	1636000	2.08	22840	10000.00000	10205.548132	102
JU12	Standard	3/28/2018 9:13:13 PM	4278000	2.07	30190	20000.00000	20147.797423	101
JP83 IB	Unknown	3/28/2018 9:23:58 PM	21430	2.09	31870	N/A	125.876331	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	142600	2.07	25020	1000.00000	839.489644	84
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	33220	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	31720	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	488600	2.07	29920	N/A	2349.066073	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	15760	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	988800	2.04	15750	N/A	8945.520028	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1051000	2.04	16350	N/A	9158.576015	N/A

Not being used in this calibration.  
 DMS 4/4/2018



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	20470	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	19970	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33900	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	210900	2.07	33260	1000.00000	930.789495	93
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	95620	2.07	22570	N/A	631.979023	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	1161000	2.07	25280	N/A	6551.347183	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>30160</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	680500	2.06	19820	N/A	4906.615264	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	244000	2.07	22370	N/A	1579.101195	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	78680	2.05	26180	N/A	457.195105	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	502500	2.06	30970	2500.00000	2333.954092	93

Dilution not needed. DMS 4/4/2018

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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**Analyte:** PFHpA\_2 (363.0 / 169.0)

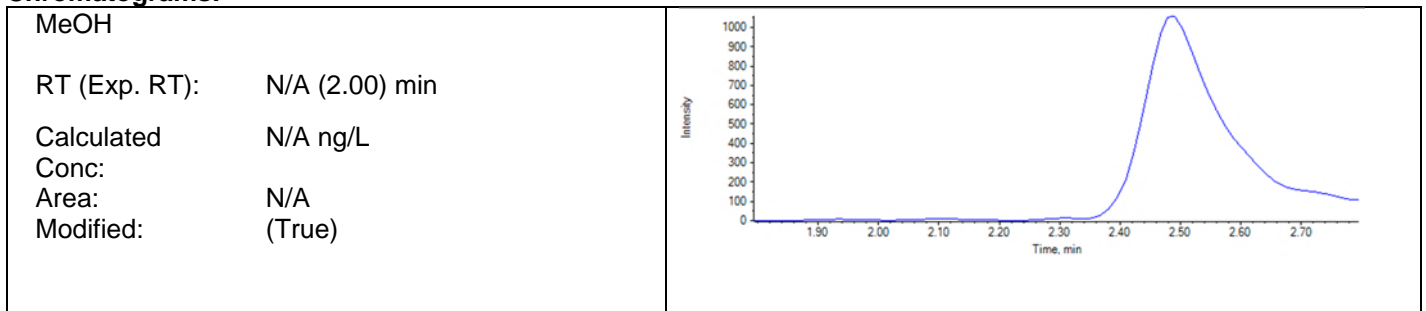
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	192	2.11	31110	25.00000	67.441088	270
JU05	Standard	3/28/2018 7:57:43 PM	158	2.09	26830	50.00000	65.434860	131
JU06	Standard	3/28/2018 8:08:31 PM	343	2.07	27320	100.00000	109.865247	110
JU07	Standard	3/28/2018 8:19:19 PM	1111	2.08	30630	250.00000	268.022015	107
JU08	Standard	3/28/2018 8:30:06 PM	2076	2.07	27800	500.00000	524.009955	105
JU09	Standard	3/28/2018 8:40:53 PM	3394	2.08	26380	1000.00000	883.574575	88
JU10	Standard	3/28/2018 8:51:40 PM	7839	2.08	24570	2500.00000	2152.378430	86
JU11	Standard	3/28/2018 9:02:26 PM	35280	2.08	22840	10000.00000	10322.122471	103
JU12	Standard	3/28/2018 9:13:13 PM	90890	2.07	30190	20000.00000	20090.027307	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	328	2.08	31870	N/A	94.899571	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	3372	2.07	25020	1000.00000	924.227498	92
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	33220	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	31720	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	10500	2.08	29920	N/A	2363.979670	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	128300	2.00	15760	N/A	54305.223478	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	146900	2.01	15750	N/A	62212.817439	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	149100	2.02	16350	N/A	60827.800907	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	20470	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	19970	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33900	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	4354	2.07	33260	1000.00000	898.756827	90
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	2107	2.06	22570	N/A	648.521770	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	32510	2.04	25280	N/A	8598.709518	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	30160	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	43770	2.04	19820	N/A	14748.978763	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	6717	2.06	22370	N/A	2027.083992	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	2284	2.03	26180	N/A	607.877117	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	11590	2.07	30970	2500.00000	2519.991756	101

**Chromatograms:**



**Analyte:** PFHxS\_1 (399.0 / 80.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	9346	2.11	7553	25.25000	22.937318	91
JU05	Standard	3/28/2018 7:57:43 PM	12150	2.11	5805	50.50000	49.075900	97
JU06	Standard	3/28/2018 8:08:31 PM	24790	2.11	7235	101.00000	89.812255	89
JU07	Standard	3/28/2018 8:19:19 PM	65320	2.10	7386	252.50000	255.369183	101
JU08	Standard	3/28/2018 8:30:06 PM	106600	2.10	6117	505.00000	517.625925	103
JU09	Standard	3/28/2018 8:40:53 PM	221500	2.10	5931	1010.00000	1126.539821	112
JU10	Standard	3/28/2018 8:51:40 PM	488600	2.10	5457	2525.00000	2721.490627	108
JU11	Standard	3/28/2018 9:02:26 PM	2032000	2.10	5943	10100.00000	10433.642448	103
JU12	Standard	3/28/2018 9:13:13 PM	5229000	2.09	8166	20200.00000	19552.756523	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	28850	2.10	7679	N/A	99.915086	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	206100	2.09	5805	1010.00000	1070.135156	106
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	1023000	2.09	6589	N/A	4728.838426	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	971	2.09	7379	N/A	< 0	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	652200	2.10	7217	N/A	2746.838656	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	3862	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1385000	2.06	3453	N/A	12239.282027	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1524000	2.06	4136	N/A	11246.800899	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	645400	2.09	6631	N/A	2958.990243	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	32470	2.09	4202	N/A	221.214227	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	21520	2.09	6422	N/A	87.520752	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	262200	2.09	7008	1010.00000	1128.316666	112
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	59490	2.09	5301	N/A	328.038788	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	530900	2.09	7747	N/A	2079.149678	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>7281</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	235200	2.08	3937	N/A	1811.097651	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	194200	2.09	5121	N/A	1144.231907	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	31150	2.07	7852	N/A	106.349723	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	616900	2.09	7136	2525.00000	2626.866885	104

Dilution not needed. DMS 4/4/2018

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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**Analyte:** PFHxS\_2 (399.0 / 99.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

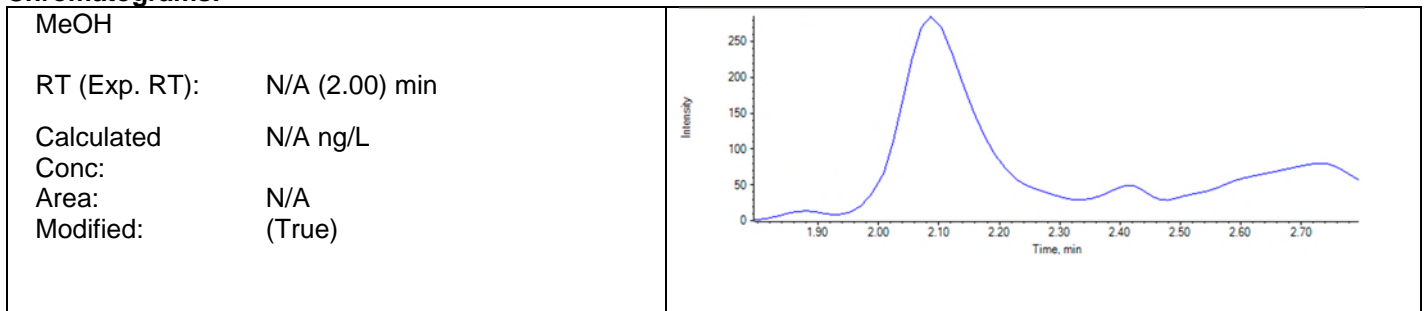
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	2654	2.10	7553	25.25000	21.106561	84
JU05	Standard	3/28/2018 7:57:43 PM	4183	2.11	5805	50.50000	60.509038	120
JU06	Standard	3/28/2018 8:08:31 PM	6508	2.11	7235	101.00000	79.595844	79
JU07	Standard	3/28/2018 8:19:19 PM	17670	2.10	7386	252.50000	238.852883	95
JU08	Standard	3/28/2018 8:30:06 PM	28860	2.10	6117	505.00000	486.949855	96
JU09	Standard	3/28/2018 8:40:53 PM	65790	2.10	5931	1010.00000	1167.168355	116
JU10	Standard	3/28/2018 8:51:40 PM	143900	2.10	5457	2525.00000	2796.910116	111
JU11	Standard	3/28/2018 9:02:26 PM	589600	2.10	5943	10100.00000	10568.937184	105
JU12	Standard	3/28/2018 9:13:13 PM	1482000	2.09	8166	20200.00000	19349.220166	96
JP83 IB	Unknown	3/28/2018 9:23:58 PM	7810	2.11	7679	N/A	92.141423	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	59840	2.09	5805	1010.00000	1083.447800	107
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	300500	2.09	6589	N/A	4849.920283	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	7379	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	193600	2.09	7217	N/A	2845.457639	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	13530	2.05	3862	N/A	357.417082	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	424500	2.06	3453	N/A	13102.115121	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	495400	2.06	4136	N/A	12765.610500	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	182800	2.09	6631	N/A	2924.545378	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	9094	2.09	4202	N/A	214.526343	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	6378	2.10	6422	N/A	89.582777	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	77580	2.09	7008	1010.00000	1164.747548	115
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	16350	2.09	5301	N/A	312.782296	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	134800	2.09	7747	N/A	1839.848413	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	7281	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	78840	2.08	3937	N/A	2120.514787	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	56850	2.09	5121	N/A	1168.309503	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	7418	2.08	7852	N/A	84.419055	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	179300	2.09	7136	2525.00000	2664.600384	106

**Chromatograms:**



**Analyte:** PFOA\_1 (413.0 / 369.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

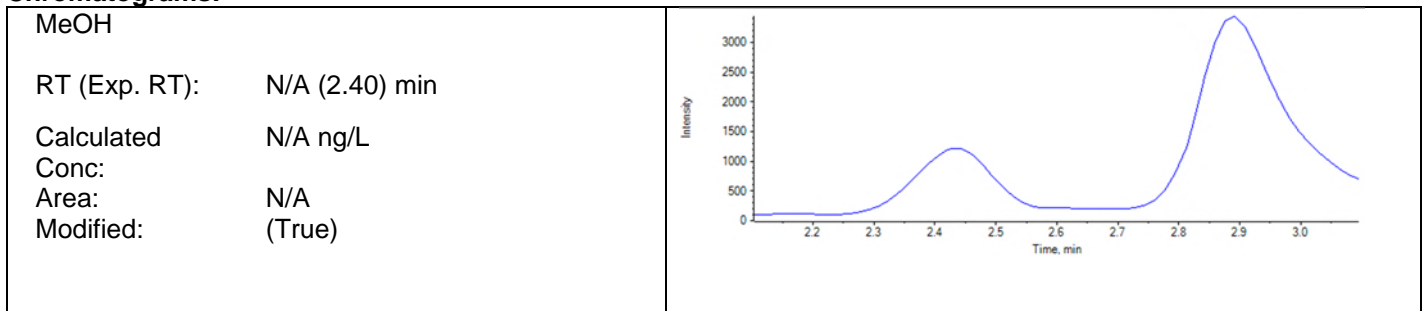
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	10060	2.46	31110	25.00000	47.399545	190
JU05	Standard	3/28/2018 7:57:43 PM	13130	2.46	26830	50.00000	64.906343	130
JU06	Standard	3/28/2018 8:08:31 PM	23410	2.46	27320	100.00000	103.754820	104
JU07	Standard	3/28/2018 8:19:19 PM	67390	2.46	30630	250.00000	245.616257	98
JU08	Standard	3/28/2018 8:30:06 PM	104900	2.46	27800	500.00000	411.578937	82
JU09	Standard	3/28/2018 8:40:53 PM	230400	2.45	26380	1000.00000	935.494107	94
JU10	Standard	3/28/2018 8:51:40 PM	511600	2.46	24570	2500.00000	2212.000554	88
JU11	Standard	3/28/2018 9:02:26 PM	2233000	2.45	22840	10000.00000	10341.505236	103
JU12	Standard	3/28/2018 9:13:13 PM	5739000	2.45	30190	20000.00000	20085.143746	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	29440	2.46	31870	N/A	110.785931	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	207400	2.45	25020	1000.00000	888.391572	89
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	2334000	2.41	33220	N/A	7433.586415	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	12460	2.45	31720	N/A	54.711400	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	706600	2.45	29920	N/A	2507.301289	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	1901000	2.42	15760	N/A	12751.784036	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	3166000	2.42	15750	N/A	21245.942945	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	3378000	2.42	16350	N/A	21838.602259	N/A

Not being used in this calibration.  
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	428700	2.44	20470	N/A	2225.196740	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	1799000	2.44	19970	N/A	9527.843107	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	75830	2.44	33900	N/A	249.436560	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	276600	2.44	33260	1000.00000	891.421762	89
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	252000	2.44	22570	N/A	1192.469092	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	47790000	2.44	25280	N/A	199689.983190	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	2294000	2.44	30160	N/A	8047.221486	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	19820	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	3531000	2.44	22370	N/A	16678.371790	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	2620000	2.43	26180	N/A	10583.206112	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	667900	2.44	30970	2500.00000	2290.433913	92

**Chromatograms:**



**Analyte:** PFOA\_2 (413.0 / 169.0)

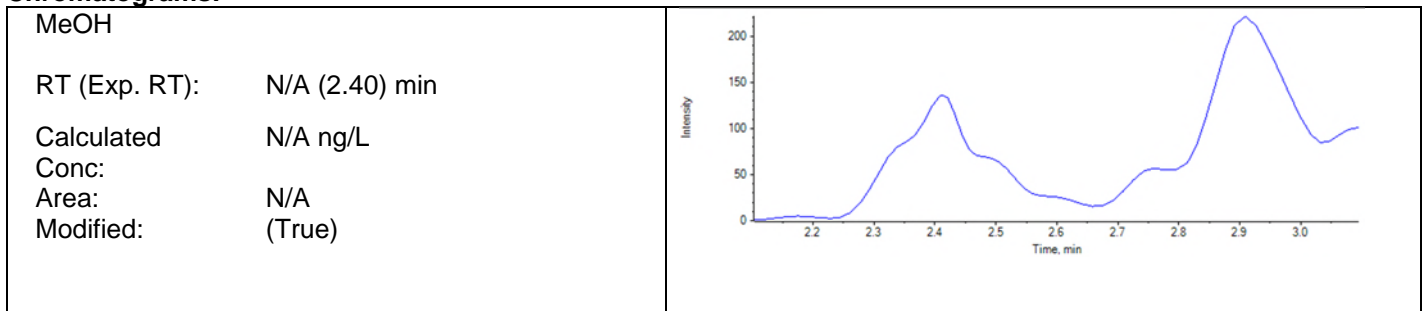
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	1266	2.46	31110	25.00000	77.120888	308
JU05	Standard	3/28/2018 7:57:43 PM	560	2.46	26830	50.00000	46.202837	92
JU06	Standard	3/28/2018 8:08:31 PM	2029	2.46	27320	100.00000	129.513486	130
JU07	Standard	3/28/2018 8:19:19 PM	4652	2.46	30630	250.00000	250.652124	100
JU08	Standard	3/28/2018 8:30:06 PM	7548	2.45	27800	500.00000	437.291935	87
JU09	Standard	3/28/2018 8:40:53 PM	15620	2.45	26380	1000.00000	937.461254	94
JU10	Standard	3/28/2018 8:51:40 PM	36670	2.45	24570	2500.00000	2342.170705	94
JU11	Standard	3/28/2018 9:02:26 PM	151000	2.45	22840	10000.00000	10329.022157	103
JU12	Standard	3/28/2018 9:13:13 PM	385300	2.45	30190	20000.00000	19927.685501	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	2095	2.46	31870	N/A	116.174274	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	14710	2.45	25020	1000.00000	931.192244	93
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	232900	2.39	33220	N/A	10956.802097	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	1395	2.44	31720	N/A	82.260050	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	49860	2.45	29920	N/A	2614.105549	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	162700	2.41	15760	N/A	16119.592668	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	250400	2.41	15750	N/A	24822.298991	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	266300	2.42	16350	N/A	25430.879048	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	43570	2.43	20470	N/A	3334.937832	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	173000	2.42	19970	N/A	13530.993021	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	8405	2.43	33900	N/A	400.471361	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	20330	2.44	33260	1000.00000	967.593144	97
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	22130	2.44	22570	N/A	1543.412665	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	5219000	2.41	25280	N/A	322211.454773	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	30160	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	247400	2.43	19820	N/A	19499.512586	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	334800	2.43	22370	N/A	23364.390661	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	248700	2.41	26180	N/A	14838.844043	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	47970	2.44	30970	2500.00000	2430.516236	97

**Chromatograms:**



**Analyte:** PFNA\_1 (463.0 / 419.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

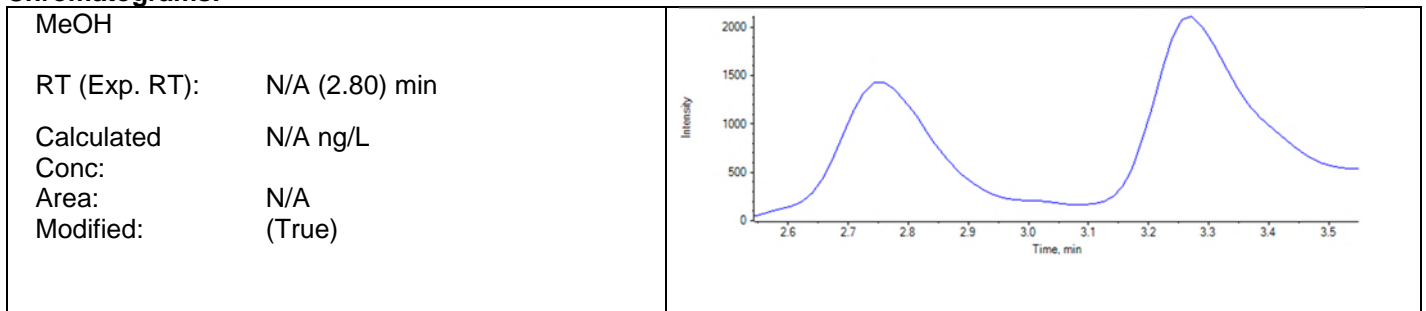
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	11170	2.83	38690	25.00000	26.408705	106
JU05	Standard	3/28/2018 7:57:43 PM	18100	2.84	31190	50.00000	57.571578	115
JU06	Standard	3/28/2018 8:08:31 PM	35880	2.84	33210	100.00000	110.965588	111
JU07	Standard	3/28/2018 8:19:19 PM	79620	2.84	38790	250.00000	214.792597	86
JU08	Standard	3/28/2018 8:30:06 PM	143700	2.84	32180	500.00000	472.424505	94
JU09	Standard	3/28/2018 8:40:53 PM	292500	2.84	34990	1000.00000	888.246591	89
JU10	Standard	3/28/2018 8:51:40 PM	664100	2.84	29550	2500.00000	2395.783223	96
JU11	Standard	3/28/2018 9:02:26 PM	2806000	2.84	28850	10000.00000	10380.894532	104
JU12	Standard	3/28/2018 9:13:13 PM	6765000	2.83	36340	20000.00000	19877.912682	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	37930	2.84	37790	N/A	102.780857	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	266100	2.83	31570	1000.00000	895.801694	90
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	2469000	2.73	35440	N/A	7438.039817	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	38790	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	855000	2.83	35680	N/A	2554.783638	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	19680	2.82	17600	N/A	115.008655	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1445000	2.81	19870	N/A	7762.805852	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1520000	2.81	20970	N/A	7737.757791	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	21360	2.83	24970	N/A	86.976805	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	19970	2.82	20680	N/A	98.714403	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	11650	2.83	35790	N/A	30.345257	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	351300	2.82	39780	1000.00000	938.630977	94
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	8952	2.83	25080	N/A	33.699982	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	70960	2.74	27810	N/A	268.071902	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>35760</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	20880	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	26180	2.76	22840	N/A	118.039692	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	14610	2.81	30060	N/A	47.487412	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	825300	2.82	37290	2500.00000	2359.216259	94

Dilution not needed. DMS 4/4/2018

**Chromatograms:**



**Analyte:** PFNA\_2 (463.0 / 219.0)

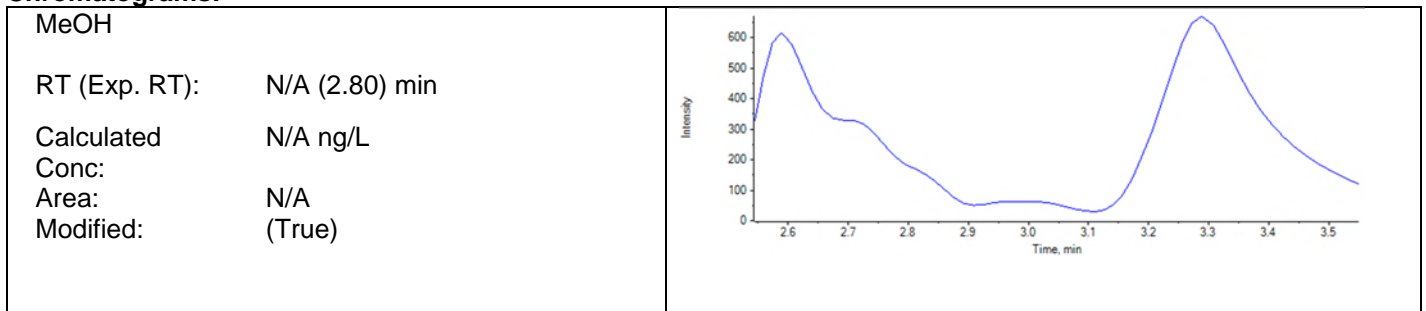
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<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	3744	2.84	38690	25.00000	28.172571	113
JU05	Standard	3/28/2018 7:57:43 PM	5644	2.84	31190	50.00000	58.909086	118
JU06	Standard	3/28/2018 8:08:31 PM	10370	2.84	33210	100.00000	106.814777	107
JU07	Standard	3/28/2018 8:19:19 PM	24150	2.84	38790	250.00000	220.169138	88
JU08	Standard	3/28/2018 8:30:06 PM	40990	2.84	32180	500.00000	457.975669	92
JU09	Standard	3/28/2018 8:40:53 PM	82460	2.84	34990	1000.00000	853.213868	85
JU10	Standard	3/28/2018 8:51:40 PM	191200	2.84	29550	2500.00000	2354.800788	94
JU11	Standard	3/28/2018 9:02:26 PM	818800	2.83	28850	10000.00000	10355.167921	104
JU12	Standard	3/28/2018 9:13:13 PM	1990000	2.83	36340	20000.00000	19989.776181	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	12180	2.84	37790	N/A	110.520101	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	79040	2.83	31570	1000.00000	907.121359	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	35440	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	38790	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	247500	2.83	35680	N/A	2525.188820	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	17600	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	426100	2.81	19870	N/A	7821.764498	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	438200	2.82	20970	N/A	7622.253545	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	6692	2.82	24970	N/A	90.702700	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	5466	2.83	20680	N/A	89.336076	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	3581	2.83	35790	N/A	29.366866	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	102000	2.82	39780	1000.00000	928.798638	93
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	2610	2.83	25080	N/A	30.835030	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	27810	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	35760	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	20880	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	22840	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	4631	2.81	30060	N/A	49.095832	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	235200	2.82	37290	2500.00000	2295.800040	92

**Chromatograms:**



**Analyte:** PFOS\_1 (499.0 / 80.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	17760	2.80	11100	25.00000	40.862354	163
JU05	Standard	3/28/2018 7:57:43 PM	19440	2.83	8265	50.00000	59.585154	119
JU06	Standard	3/28/2018 8:08:31 PM	38310	2.84	7900	100.00000	121.841415	122
JU07	Standard	3/28/2018 8:19:19 PM	87110	2.84	9573	250.00000	227.760706	91
JU08	Standard	3/28/2018 8:30:06 PM	143400	2.83	8211	500.00000	436.117197	87
JU09	Standard	3/28/2018 8:40:53 PM	310700	2.83	8161	1000.00000	949.783027	95
JU10	Standard	3/28/2018 8:51:40 PM	717300	2.83	8987	2500.00000	1989.930640	80
JU11	Standard	3/28/2018 9:02:26 PM	2827000	2.83	6646	10000.00000	10602.023283	106
JU12	Standard	3/28/2018 9:13:13 PM	6893000	2.83	8583	20000.00000	20012.958577	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	37500	2.84	8334	N/A	113.116922	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	293400	2.83	8239	1000.00000	888.359793	89
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	5743000	2.72	8675	N/A	16499.025614	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	2954	2.75	10890	N/A	7.746986	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	878900	2.83	8218	N/A	2666.091713	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	4370	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1437000	2.81	4179	N/A	8571.775769	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1625000	2.81	4950	N/A	8181.911820	N/A

Not being used in this calibration.  
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	56470	2.76	7901	N/A	179.084030	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	253200	2.78	5953	N/A	1061.034530	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	138600	2.79	8884	N/A	389.839482	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	359200	2.82	9970	1000.00000	898.867250	90
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	210900	2.71	7919	N/A	664.727323	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	725600	2.79	7021	N/A	2576.314495	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>9554</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	594400	2.78	5037	N/A	2941.712559	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	225000	2.71	8203	N/A	684.609667	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	389000	2.77	8823	N/A	1099.822448	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	798700	2.82	8566	2500.00000	2324.753879	93

Dilution not needed.  
 DMS  
 4/4/2018

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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**Analyte:** PFOS\_2 (499.0 / 99.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

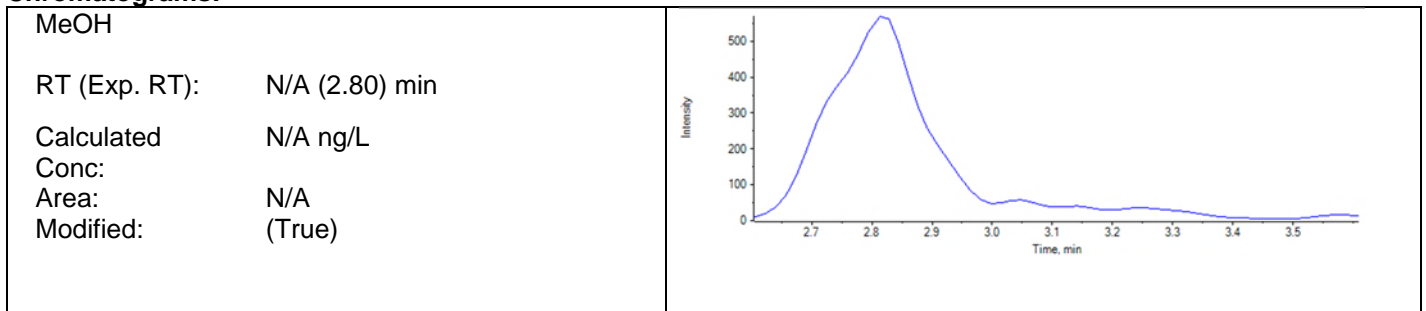
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	3212	2.83	11100	25.00000	44.685540	179
JU05	Standard	3/28/2018 7:57:43 PM	3028	2.84	8265	50.00000	54.284882	109
JU06	Standard	3/28/2018 8:08:31 PM	7349	2.84	7900	100.00000	124.600002	125
JU07	Standard	3/28/2018 8:19:19 PM	16240	2.84	9573	250.00000	220.153966	88
JU08	Standard	3/28/2018 8:30:06 PM	31680	2.84	8211	500.00000	489.624992	98
JU09	Standard	3/28/2018 8:40:53 PM	62630	2.84	8161	1000.00000	965.520411	97
JU10	Standard	3/28/2018 8:51:40 PM	139500	2.84	8987	2500.00000	1944.107796	78
JU11	Standard	3/28/2018 9:02:26 PM	570100	2.83	6646	10000.00000	10703.751120	107
JU12	Standard	3/28/2018 9:13:13 PM	1369000	2.83	8583	20000.00000	19897.956831	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	8786	2.84	8334	N/A	140.049449	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	56220	2.83	8239	1000.00000	859.359202	86
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	741100	2.76	8675	N/A	10660.137967	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	10890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	178900	2.83	8218	N/A	2722.546023	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	12870	2.80	4370	N/A	375.702987	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	297200	2.81	4179	N/A	8873.929199	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	343300	2.82	4950	N/A	8655.768214	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	7149	2.79	7901	N/A	121.424052	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	46100	2.82	5953	N/A	974.087117	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	24940	2.83	8884	N/A	358.607984	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	74500	2.82	9970	1000.00000	940.190701	94
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	32370	2.78	7919	N/A	518.150316	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	126900	2.82	7021	N/A	2262.645932	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	9554	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	110300	2.82	5037	N/A	2738.953627	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	35250	2.77	8203	N/A	544.338528	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	62290	2.81	8823	N/A	888.781723	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	159600	2.82	8566	2500.00000	2331.526220	93

**Chromatograms:**



**Analyte:** PFDA\_1 (513.0 / 469.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

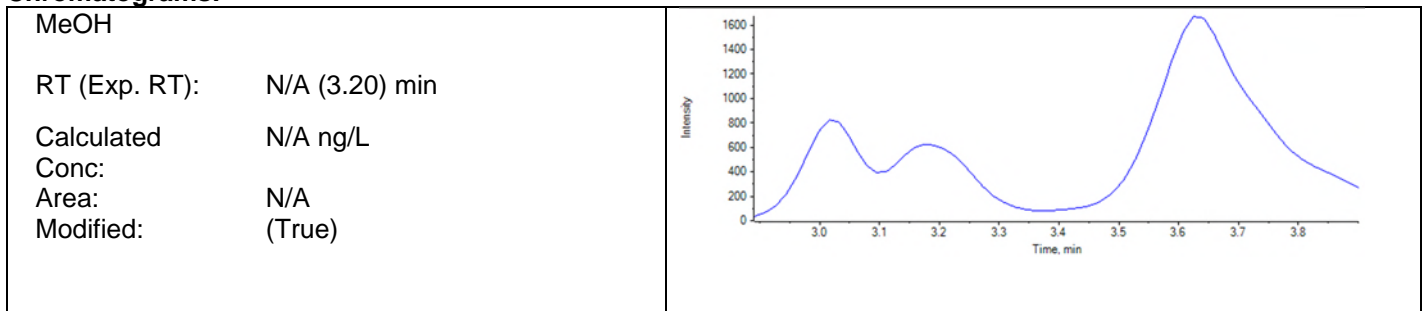
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	9264	3.20	41120	25.00000	24.035377	96
JU05	Standard	3/28/2018 7:57:43 PM	17390	3.20	33440	50.00000	57.556930	115
JU06	Standard	3/28/2018 8:08:31 PM	32810	3.20	38860	100.00000	94.427831	94
JU07	Standard	3/28/2018 8:19:19 PM	84490	3.19	43560	250.00000	219.062611	88
JU08	Standard	3/28/2018 8:30:06 PM	151800	3.19	34900	500.00000	493.107586	99
JU09	Standard	3/28/2018 8:40:53 PM	333000	3.19	34640	1000.00000	1091.945398	109
JU10	Standard	3/28/2018 8:51:40 PM	752700	3.19	36190	2500.00000	2364.046126	95
JU11	Standard	3/28/2018 9:02:26 PM	3002000	3.19	31670	10000.00000	10781.952515	108
JU12	Standard	3/28/2018 9:13:13 PM	7348000	3.18	43310	20000.00000	19298.865625	96
JP83 IB	Unknown	3/28/2018 9:23:58 PM	41270	3.19	42230	N/A	109.548645	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	293100	3.18	34370	1000.00000	968.491035	97
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	1478000	3.01	42960	N/A	3911.237521	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	44320	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	1061000	3.18	41760	N/A	2887.097865	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	22660	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1681000	3.16	20230	N/A	9445.621859	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1996000	3.17	23740	N/A	9563.674407	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	19610	3.18	26590	N/A	82.298145	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	17010	3.18	24310	N/A	78.028752	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	7355	3.18	38120	N/A	20.355026	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	379100	3.17	42380	1000.00000	1015.972793	102
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	28240	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	33430	N/A	N/A	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>39800</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	26010	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	5755	3.17	22830	N/A	27.084193	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	10670	3.16	32460	N/A	35.799489	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	927100	3.17	42350	2500.00000	2488.704173	100

Dilution not needed. DMS 4/4/2018

**Chromatograms:**



**Analyte:** PFDA\_2 (513.0 / 219.0)

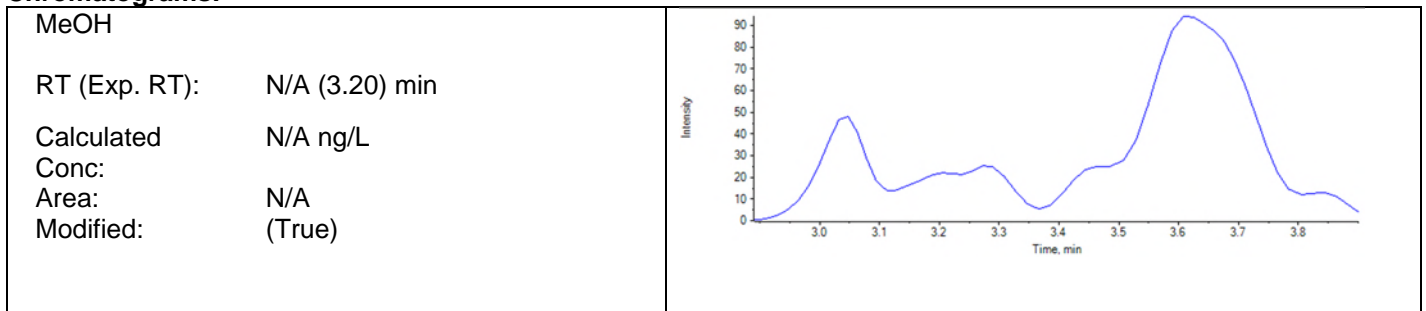
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	317	3.23	41120	25.00000	25.433676	102
JU05	Standard	3/28/2018 7:57:43 PM	716	3.19	33440	50.00000	62.066931	124
JU06	Standard	3/28/2018 8:08:31 PM	1275	3.20	38860	100.00000	92.544003	93
JU07	Standard	3/28/2018 8:19:19 PM	3213	3.19	43560	250.00000	201.954782	81
JU08	Standard	3/28/2018 8:30:06 PM	6367	3.18	34900	500.00000	492.412977	98
JU09	Standard	3/28/2018 8:40:53 PM	14040	3.19	34640	1000.00000	1087.996321	109
JU10	Standard	3/28/2018 8:51:40 PM	30510	3.19	36190	2500.00000	2257.225740	90
JU11	Standard	3/28/2018 9:02:26 PM	123700	3.19	31670	10000.00000	10441.486410	104
JU12	Standard	3/28/2018 9:13:13 PM	320200	3.18	43310	20000.00000	19763.879159	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1289	3.18	42230	N/A	86.413826	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	12430	3.18	34370	1000.00000	970.897019	97
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	23060	3.01	42960	N/A	1439.438588	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	44320	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	45530	3.18	41760	N/A	2917.951570	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	22660	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	79120	3.16	20230	N/A	10453.427617	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	95190	3.17	23740	N/A	10719.845750	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	660	3.16	26590	N/A	71.148605	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	24310	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	38120	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	16040	3.17	42380	1000.00000	1016.259107	102
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	28240	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	33430	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	39800	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	26010	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	22830	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	32460	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	38720	3.17	42350	2500.00000	2448.089400	98

**Chromatograms:**



**Analyte:** PFUnA\_1 (563.0 / 519.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

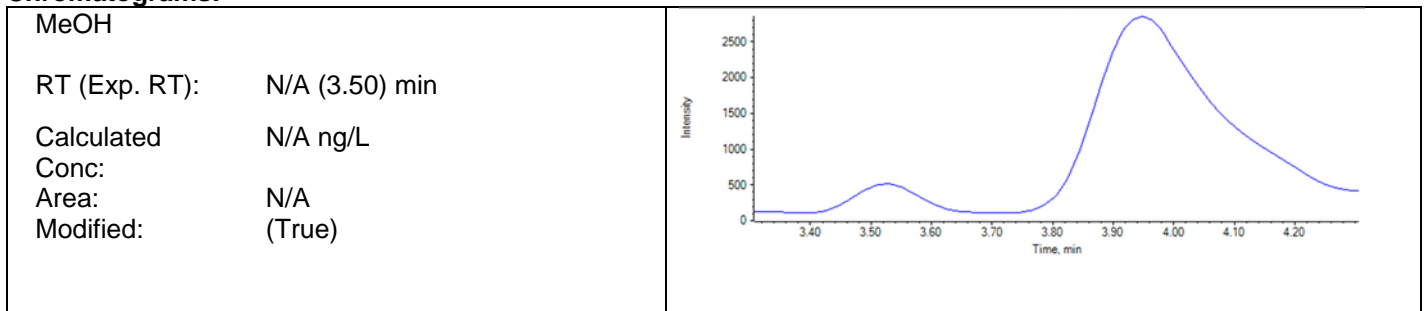
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	12410	3.52	40580	25.00000	30.539769	122
JU05	Standard	3/28/2018 7:57:43 PM	16190	3.53	31740	50.00000	53.213871	106
JU06	Standard	3/28/2018 8:08:31 PM	28790	3.52	35100	100.00000	87.727520	88
JU07	Standard	3/28/2018 8:19:19 PM	85240	3.52	38440	250.00000	243.008644	97
JU08	Standard	3/28/2018 8:30:06 PM	143900	3.52	32460	500.00000	489.433442	98
JU09	Standard	3/28/2018 8:40:53 PM	300800	3.52	36320	1000.00000	916.880554	92
JU10	Standard	3/28/2018 8:51:40 PM	694600	3.52	33050	2500.00000	2332.216351	93
JU11	Standard	3/28/2018 9:02:26 PM	2965000	3.52	31520	10000.00000	10451.781599	105
JU12	Standard	3/28/2018 9:13:13 PM	7559000	3.51	42390	20000.00000	19820.198250	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	37670	3.51	40120	N/A	100.916039	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	286200	3.51	32470	1000.00000	976.450413	98
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	42020	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	50580	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	975600	3.51	42220	N/A	2565.123738	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	23300	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1737000	3.50	22520	N/A	8568.518526	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	2083000	3.50	26860	N/A	8616.303464	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	20120	3.51	26730	N/A	80.194138	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	27350	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	40910	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	351600	3.50	43680	1000.00000	891.340205	89
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	29010	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	31700	N/A	N/A	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>41520</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	29280	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	24000	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	40770	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	822000	3.50	40250	2500.00000	2266.753364	91

Dilution not needed. DMS 4/4/2018

**Chromatograms:**



**Analyte:** PFUnA\_2 (563.0 / 269.0)

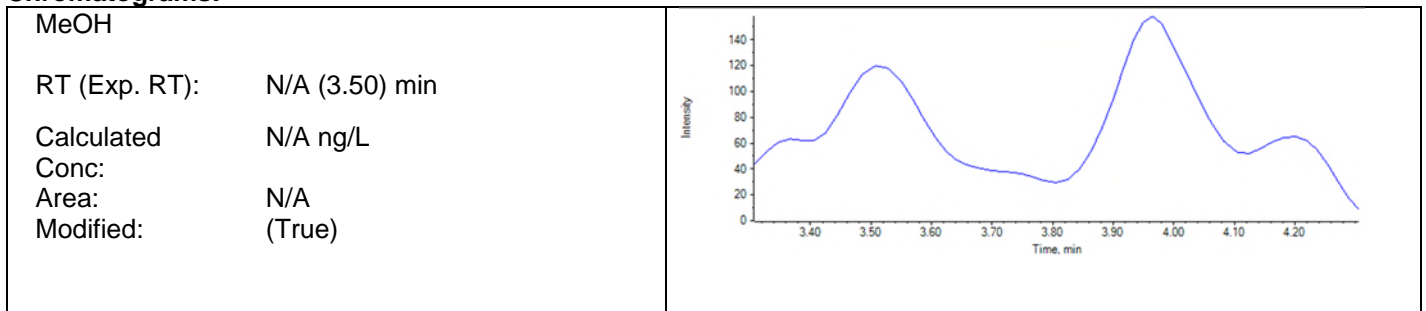
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	N/A	N/A	40580	25.00000	N/A	N/A
JU05	Standard	3/28/2018 7:57:43 PM	N/A	N/A	31740	50.00000	N/A	N/A
JU06	Standard	3/28/2018 8:08:31 PM	1079	3.51	35100	100.00000	88.805487	89
JU07	Standard	3/28/2018 8:19:19 PM	3588	3.52	38440	250.00000	247.271558	99
JU08	Standard	3/28/2018 8:30:06 PM	6420	3.53	32460	500.00000	511.823131	102
JU09	Standard	3/28/2018 8:40:53 PM	14490	3.52	36320	1000.00000	1021.078885	102
JU10	Standard	3/28/2018 8:51:40 PM	34730	3.52	33050	2500.00000	2671.784446	107
JU11	Standard	3/28/2018 9:02:26 PM	129100	3.52	31520	10000.00000	10379.162990	104
JU12	Standard	3/28/2018 9:13:13 PM	325000	3.51	42390	20000.00000	19430.073503	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1499	3.51	40120	N/A	105.515754	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	11550	3.51	32470	1000.00000	911.568164	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	42020	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	50580	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	50210	3.51	42220	N/A	3022.869319	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	23300	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	90600	3.50	22520	N/A	10201.535412	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	106900	3.50	26860	N/A	10093.449498	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	26730	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	27350	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	40910	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	15100	3.50	43680	1000.00000	886.281547	89
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	29010	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	31700	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	41520	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	29280	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	24000	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	40770	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	35220	3.49	40250	2500.00000	2227.155956	89

**Chromatograms:**



**Analyte:** PFD0A\_1 (613.0 / 569.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

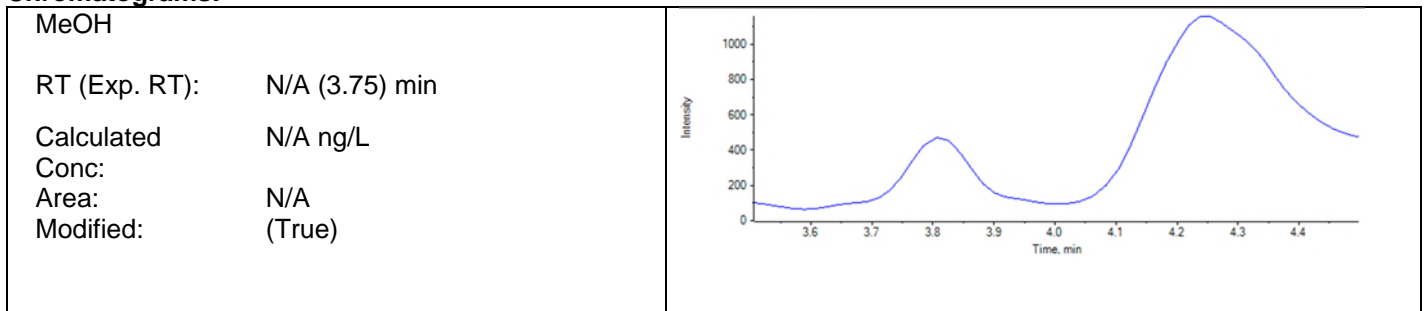
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	11940	3.81	43180	25.00000	20.855428	83
JU05	Standard	3/28/2018 7:57:43 PM	15860	3.81	35040	50.00000	43.460589	87
JU06	Standard	3/28/2018 8:08:31 PM	31620	3.81	36240	100.00000	97.328906	97
JU07	Standard	3/28/2018 8:19:19 PM	84890	3.81	40540	250.00000	254.126128	102
JU08	Standard	3/28/2018 8:30:06 PM	141900	3.81	32440	500.00000	546.898506	109
JU09	Standard	3/28/2018 8:40:53 PM	307800	3.81	37250	1000.00000	1045.976761	105
JU10	Standard	3/28/2018 8:51:40 PM	691400	3.81	31930	2500.00000	2764.238202	111
JU11	Standard	3/28/2018 9:02:26 PM	3047000	3.80	33740	10000.00000	11574.054096	116
JU12	Standard	3/28/2018 9:13:13 PM	7732000	3.80	54840	20000.00000	18078.061385	90
JP83 IB	Unknown	3/28/2018 9:23:58 PM	38830	3.80	40380	N/A	108.789748	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	270800	3.80	33620	1000.00000	1019.007224	102
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	41120	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	39870	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	876500	3.79	40420	N/A	2768.545227	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	10620	3.79	21520	N/A	48.727607	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1823000	3.78	24330	N/A	9601.271248	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	2084000	3.79	28960	N/A	9218.516886	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	17920	3.79	24230	N/A	80.272065	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	8380	3.79	24120	N/A	29.962213	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33720	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	383100	3.79	43890	1000.00000	1105.731264	111
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	21510	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	26430	N/A	N/A	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>43010</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	24340	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	19400	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	32290	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	899700	3.78	40960	2500.00000	2804.292375	112

Dilution not needed. DMS 4/4/2018

**Chromatograms:**



**Analyte:** PFDa\_2 (613.0 / 319.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

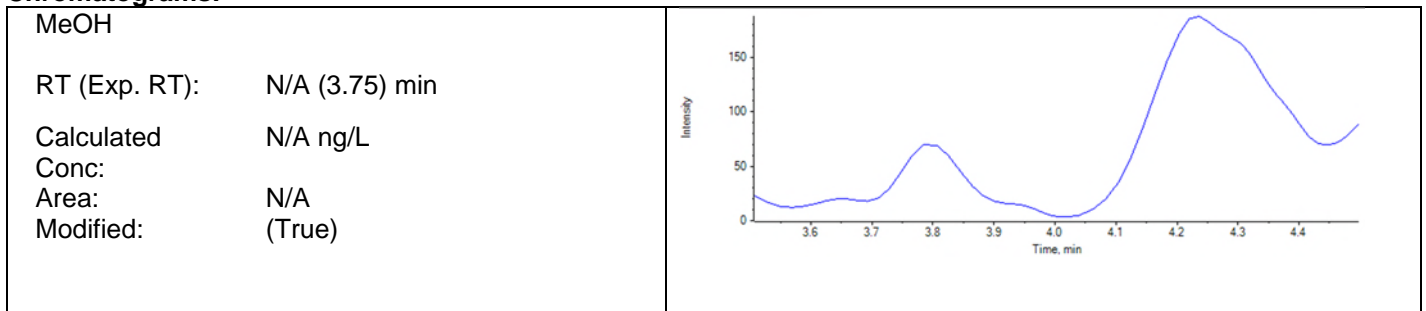
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	1834	3.81	43180	25.00000	32.406706	130
JU05	Standard	3/28/2018 7:57:43 PM	2224	3.81	35040	50.00000	46.829534	94
JU06	Standard	3/28/2018 8:08:31 PM	4958	3.81	36240	100.00000	97.165942	97
JU07	Standard	3/28/2018 8:19:19 PM	13770	3.81	40540	250.00000	236.471294	95
JU08	Standard	3/28/2018 8:30:06 PM	21720	3.80	32440	500.00000	462.765301	93
JU09	Standard	3/28/2018 8:40:53 PM	48290	3.81	37250	1000.00000	893.050019	89
JU10	Standard	3/28/2018 8:51:40 PM	118500	3.80	31930	2500.00000	2551.282434	102
JU11	Standard	3/28/2018 9:02:26 PM	496600	3.80	33740	10000.00000	10105.028769	101
JU12	Standard	3/28/2018 9:13:13 PM	1208000	3.80	54840	20000.00000	15117.879245	76
JP83 IB	Unknown	3/28/2018 9:23:58 PM	7013	3.80	40380	N/A	122.470136	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	44340	3.80	33620	1000.00000	908.538605	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	41120	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	39870	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	139700	3.80	40420	N/A	2375.925579	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	1558	3.79	21520	N/A	52.959991	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	282800	3.78	24330	N/A	7982.727906	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	336800	3.79	28960	N/A	7984.762622	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	2979	3.78	24230	N/A	87.642239	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	24120	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33720	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	60750	3.79	43890	1000.00000	953.387871	95
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	21510	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	26430	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	43010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	24340	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	19400	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	32290	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	132800	3.78	40960	2500.00000	2228.780598	89

**Chromatograms:**



**Analyte:** PFTTrDA\_1 (663.0 / 619.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

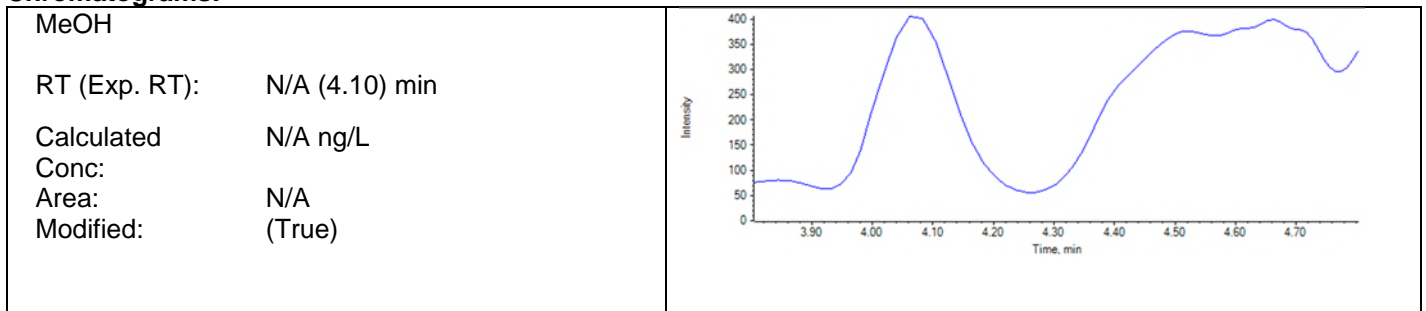
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	8538	4.07	36180	25.00000	3.628306	45
JU05	Standard	3/28/2018 7:57:43 PM	13590	4.07	29590	50.00000	35.913950	72
JU06	Standard	3/28/2018 8:08:31 PM	26150	4.07	30760	100.00000	92.386404	92
JU07	Standard	3/28/2018 8:19:19 PM	69380	4.07	33650	250.00000	267.580630	107
JU08	Standard	3/28/2018 8:30:06 PM	118600	4.07	30280	500.00000	535.938234	107
JU09	Standard	3/28/2018 8:40:53 PM	251800	4.07	32890	1000.00000	1076.274180	108
JU10	Standard	3/28/2018 8:51:40 PM	579600	4.07	30100	2500.00000	2753.169286	110
JU11	Standard	3/28/2018 9:02:26 PM	2529000	4.06	32780	10000.00000	11123.584284	111
JU12	Standard	3/28/2018 9:13:13 PM	6552000	4.06	51080	20000.00000	18515.153032	93
JP83 IB	Unknown	3/28/2018 9:23:58 PM	31670	4.06	33830	N/A	104.823766	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	231900	4.06	28620	1000.00000	1140.943637	114
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	641400	4.05	26510	N/A	3467.439376	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	9353	4.05	15240	N/A	58.243760	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1381000	4.04	15740	N/A	12653.812215	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1646000	4.05	19790	N/A	11988.082436	N/A

Not being used in this calibration.  
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	11480	4.05	22930	N/A	41.906774	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	5652	4.05	16090	N/A	20.291828	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	2366	4.04	18340	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	322900	4.04	39060	1000.00000	1164.494367	116
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	1689	4.05	16530	N/A	< 0	N/A
<del>J5394-FS(4)</del>	<del>Unknown</del>	<del>3/29/2018 12:48:42 AM</del>	<del>1934</del>	<del>4.05</del>	<del>18970</del>	<del>N/A</del>	<del>&lt; 0</del>	<del>N/A</del>
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	36010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	765400	4.04	38240	2500.00000	2863.245587	115

Dilution not needed. DMS 4/4/2018

**Chromatograms:**



**Analyte:** PFTTrDA\_2 (663.0 / 169.0)

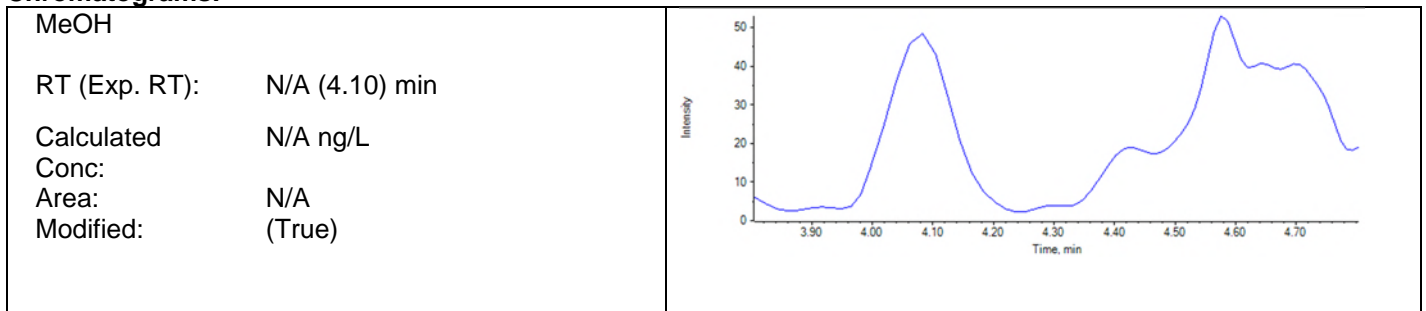
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	658	4.08	36180	25.00000	< 0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	960	4.07	29590	50.00000	11.465455	23
JU06	Standard	3/28/2018 8:08:31 PM	1978	4.06	30760	100.00000	76.773814	77
JU07	Standard	3/28/2018 8:19:19 PM	4678	4.07	33650	250.00000	229.999584	92
JU08	Standard	3/28/2018 8:30:06 PM	8497	4.06	30280	500.00000	520.388921	104
JU09	Standard	3/28/2018 8:40:53 PM	18650	4.07	32890	1000.00000	1107.771007	111
JU10	Standard	3/28/2018 8:51:40 PM	42170	4.06	30100	2500.00000	2817.086727	113
JU11	Standard	3/28/2018 9:02:26 PM	179000	4.06	32780	10000.00000	11139.619812	111
JU12	Standard	3/28/2018 9:13:13 PM	461200	4.06	51080	20000.00000	18458.360135	92
JP83 IB	Unknown	3/28/2018 9:23:58 PM	2520	4.06	33830	N/A	97.662844	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	16290	4.05	28620	1000.00000	1112.412360	111
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	46760	4.05	26510	N/A	3561.701771	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	705	4.03	15240	N/A	39.795788	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	99370	4.04	15740	N/A	12892.328632	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	120800	4.05	19790	N/A	12460.109656	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	990	4.03	22930	N/A	33.462107	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	815	4.04	16090	N/A	48.738440	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	18340	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	22990	4.04	39060	1000.00000	1151.971385	115
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	16530	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	18970	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	36010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	51910	4.04	38240	2500.00000	2728.654270	109

**Chromatograms:**



**Analyte:** PFTeDA\_1 (713.0 / 669.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

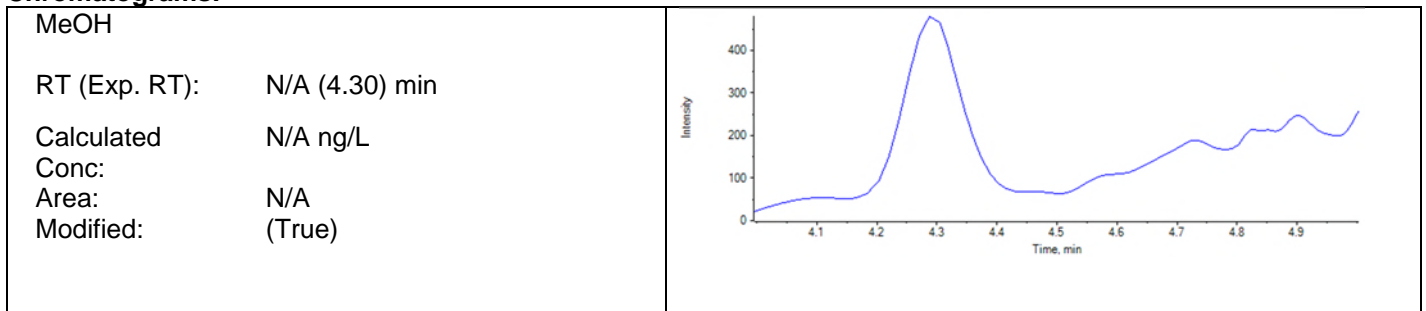
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	11190	4.29	36180	25.00000	<0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	14770	4.29	29590	50.00000	8.698838	17
JU06	Standard	3/28/2018 8:08:31 PM	30670	4.29	30760	100.00000	71.817555	72
JU07	Standard	3/28/2018 8:19:19 PM	79540	4.29	33650	250.00000	245.085808	98
JU08	Standard	3/28/2018 8:30:06 PM	136700	4.29	30280	500.00000	517.938481	104
JU09	Standard	3/28/2018 8:40:53 PM	301000	4.29	32890	1000.00000	1105.559256	111
JU10	Standard	3/28/2018 8:51:40 PM	687300	4.29	30100	2500.00000	2839.848279	114
JU11	Standard	3/28/2018 9:02:26 PM	2836000	4.28	32780	10000.00000	10912.363228	109
JU12	Standard	3/28/2018 9:13:13 PM	7539000	4.28	51080	20000.00000	18657.387394	93
JP83 IB	Unknown	3/28/2018 9:23:58 PM	39300	4.28	33830	N/A	92.670988	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	263900	4.28	28620	1000.00000	1114.600684	111
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	659700	4.27	26510	N/A	3100.092258	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	7155	4.27	15240	N/A	4.948959	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1476000	4.26	15740	N/A	11832.216726	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1810000	4.27	19790	N/A	11538.789310	N/A

Not being used in this calibration.  
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	9897	4.27	22930	N/A	0.135175	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	4868	4.27	16090	N/A	< 0	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	1478	4.27	18340	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	371300	4.27	39060	1000.00000	1150.324626	115
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	970	4.27	16530	N/A	< 0	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	1394	4.26	18970	N/A	< 0	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>36010</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	860800	4.26	38240	2500.00000	2799.099453	112

Dilution not needed. DMS 4/4/2018

**Chromatograms:**





**Analyte:** PFTeDA\_2 (713.0 / 169.0)

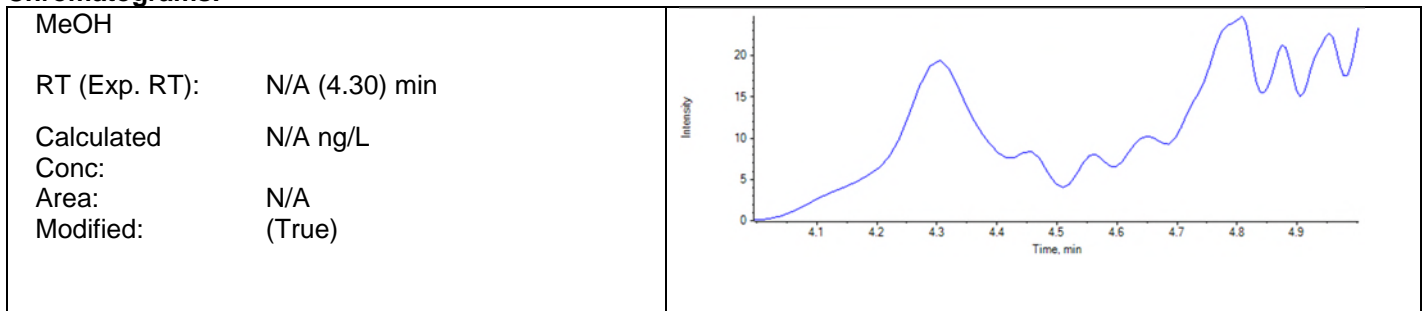
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	372	4.29	36180	25.00000	< 0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	793	4.30	29590	50.00000	5.879418	12
JU06	Standard	3/28/2018 8:08:31 PM	1681	4.29	30760	100.00000	72.757944	73
JU07	Standard	3/28/2018 8:19:19 PM	4309	4.29	33650	250.00000	249.187337	100
JU08	Standard	3/28/2018 8:30:06 PM	7263	4.28	30280	500.00000	517.884349	104
JU09	Standard	3/28/2018 8:40:53 PM	15740	4.29	32890	1000.00000	1091.324172	109
JU10	Standard	3/28/2018 8:51:40 PM	35900	4.29	30100	2500.00000	2807.397684	112
JU11	Standard	3/28/2018 9:02:26 PM	149500	4.28	32780	10000.00000	10900.936811	109
JU12	Standard	3/28/2018 9:13:13 PM	399000	4.28	51080	20000.00000	18710.511703	94
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1947	4.28	33830	N/A	79.731860	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	13180	4.28	28620	1000.00000	1047.790536	105
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	33880	4.27	26510	N/A	3012.745963	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	550	4.26	15240	N/A	28.157209	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	84480	4.26	15740	N/A	12839.938016	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	101100	4.27	19790	N/A	12220.146739	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	497	4.28	22930	N/A	< 0	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	165	4.28	16090	N/A	< 0	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	18340	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	19440	4.26	39060	1000.00000	1137.469703	114
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	16530	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	18970	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	36010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	45530	4.26	38240	2500.00000	2802.326311	112

**Chromatograms:**



Analyte: NMeFOSAA\_1 (570.0 / 419.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	1612	3.36	6598	25.00000	< 0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	2273	3.36	5054	50.00000	1.957425	4
JU06	Standard	3/28/2018 8:08:31 PM	5226	3.36	5105	100.00000	74.272755	74
JU07	Standard	3/28/2018 8:19:19 PM	13740	3.35	5277	250.00000	273.477984	109
JU08	Standard	3/28/2018 8:30:06 PM	23120	3.36	6102	500.00000	422.761715	85
JU09	Standard	3/28/2018 8:40:53 PM	49830	3.35	5086	1000.00000	1180.017983	118
JU10	Standard	3/28/2018 8:51:40 PM	107300	3.35	4437	2500.00000	2992.907145	120
JU11	Standard	3/28/2018 9:02:26 PM	451800	3.35	6017	10000.00000	9406.562418	94
JU12	Standard	3/28/2018 9:13:13 PM	1174000	3.35	9965	20000.00000	14786.550156	74
JP83 IB	Unknown	3/28/2018 9:23:58 PM	8714	3.35	6889	N/A	104.691339	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	45240	3.35	5405	1000.00000	999.988766	100
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	1633	3.34	6631	N/A	< 0	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	303	3.35	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	5936	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	145000	3.35	6875	N/A	2603.085222	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	1558	3.34	4513	N/A	< 0	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	262600	3.33	3840	N/A	8563.447764	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	279500	3.34	4110	N/A	8514.515982	N/A

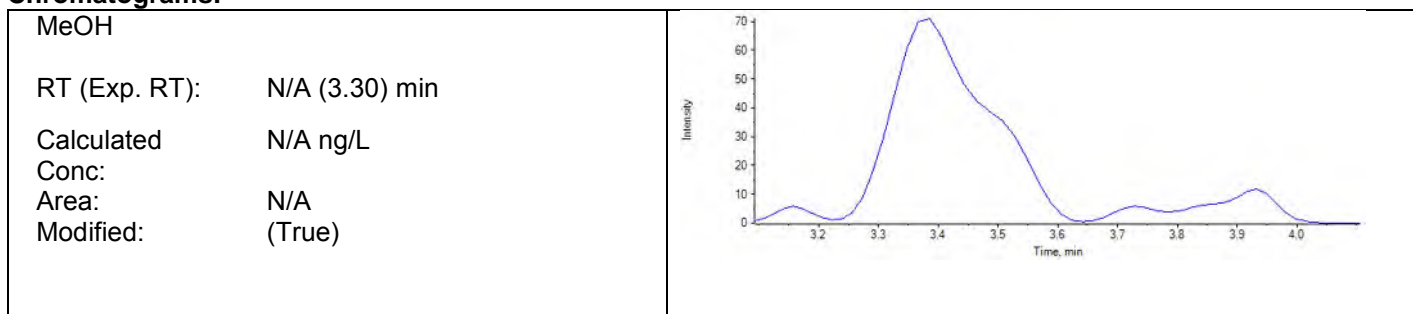
Not being used in this calibration.  
DMS 4/4/2018

Not being used in this calibration.  
DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	3481	3.34	4951	N/A	33.876843	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	1470	3.35	4500	N/A	< 0	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	801	3.35	6603	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	56400	3.34	5617	1000.00000	1210.433873	121
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	3754	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	4325	N/A	N/A	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>6005</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	4334	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	2847	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	5552	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	138900	3.33	5733	2500.00000	2997.125293	120

Dilution not needed. DMS 4/4/2018

**Chromatograms:**



**Analyte:** NMeFOSAA\_2 (570.0 / 512.0)

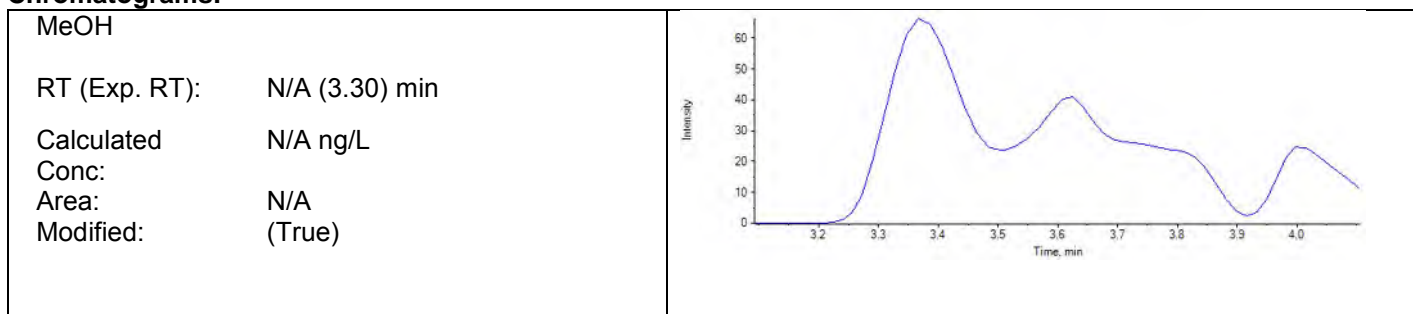
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	N/A	N/A	6598	25.00000	N/A	N/A
JU05	Standard	3/28/2018 7:57:43 PM	1978	3.35	5054	50.00000	38.736195	77
JU06	Standard	3/28/2018 8:08:31 PM	2980	3.36	5105	100.00000	80.173295	80
JU07	Standard	3/28/2018 8:19:19 PM	8222	3.36	5277	250.00000	290.165590	116
JU08	Standard	3/28/2018 8:30:06 PM	13960	3.35	6102	500.00000	447.227836	89
JU09	Standard	3/28/2018 8:40:53 PM	29590	3.36	5086	1000.00000	1208.293784	121
JU10	Standard	3/28/2018 8:51:40 PM	64540	3.35	4437	2500.00000	3088.636692	124
JU11	Standard	3/28/2018 9:02:26 PM	259400	3.35	6017	10000.00000	9246.766608	92
JU12	Standard	3/28/2018 9:13:13 PM	650800	3.35	9965	20000.00000	14028.337361	70
JP83 IB	Unknown	3/28/2018 9:23:58 PM	5774	3.35	6889	N/A	135.036290	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	26740	3.35	5405	1000.00000	1020.365824	102
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	6631	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	5936	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	84540	3.35	6875	N/A	2604.431786	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	4513	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	150900	3.33	3840	N/A	8421.243556	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	171500	3.34	4110	N/A	8947.829961	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	4951	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	4500	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	6603	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	33620	3.34	5617	1000.00000	1244.154169	124
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	3754	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	4325	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	6005	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	4334	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	2847	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	5552	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	73770	3.33	5733	2500.00000	2727.242561	109

**Chromatograms:**



**Analyte:** NEtFOSAA\_1 (584.0 / 419.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	2033	3.52	7742	25.00000	19.094443	76
JU05	Standard	3/28/2018 7:57:43 PM	3077	3.53	4915	50.00000	64.289932	129
JU06	Standard	3/28/2018 8:08:31 PM	5092	3.52	6548	100.00000	83.146585	83
JU07	Standard	3/28/2018 8:19:19 PM	13250	3.52	5672	250.00000	276.946160	111
JU08	Standard	3/28/2018 8:30:06 PM	20790	3.52	4760	500.00000	529.488560	106
JU09	Standard	3/28/2018 8:40:53 PM	43470	3.52	5060	1000.00000	1054.448961	105
JU10	Standard	3/28/2018 8:51:40 PM	105300	3.52	5789	2500.00000	2247.617650	90
JU11	Standard	3/28/2018 9:02:26 PM	433000	3.52	5472	10000.00000	9824.032079	98
JU12	Standard	3/28/2018 9:13:13 PM	1087000	3.51	6645	20000.00000	20325.935630	102
JP83 IB	Unknown	3/28/2018 9:23:58 PM	9263	3.52	6205	N/A	172.070871	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	44000	3.51	5121	1000.00000	1054.719718	105
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	5908	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	7212	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	148200	3.51	7009	N/A	2616.238604	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	2154	3.50	5132	N/A	38.641530	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	289300	3.50	3147	N/A	11417.274254	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	321700	3.51	3603	N/A	11088.684894	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	3531	3.50	4644	N/A	81.002110	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	2023	3.50	5771	N/A	30.049990	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	760	3.50	7053	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	55830	3.50	6352	1000.00000	1079.251456	108
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	601	3.51	3360	N/A	8.684178	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	964	3.49	3574	N/A	19.981571	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>4929</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	755	3.51	3181	N/A	15.977527	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	437	3.49	3139	N/A	3.770183	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	6718	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	125700	3.50	6344	2500.00000	2449.373090	98

Dilution not needed. DMS 4/4/2018

**Chromatograms:**

MeOH  RT (Exp. RT): N/A (3.40) min  Calculated Conc: N/A ng/L  Area: N/A  Modified: (True)	
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**Analyte:** NEtFOSAA\_2 (584.0 / 483.0)

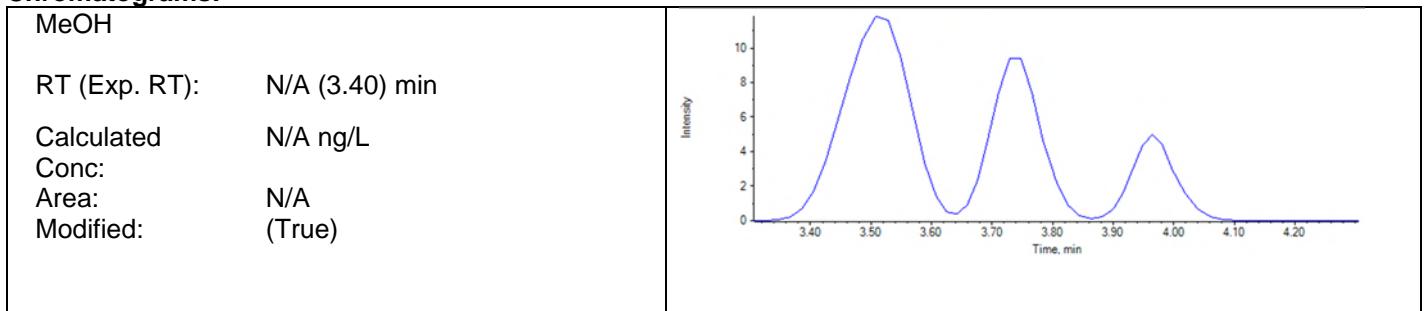
<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	273	3.48	7742	25.00000	29.600031	118
JU05	Standard	3/28/2018 7:57:43 PM	236	3.54	4915	50.00000	56.985468	114
JU06	Standard	3/28/2018 8:08:31 PM	423	3.52	6548	100.00000	92.381424	92
JU07	Standard	3/28/2018 8:19:19 PM	735	3.52	5672	250.00000	230.691938	92
JU08	Standard	3/28/2018 8:30:06 PM	1130	3.53	4760	500.00000	460.829454	92
JU09	Standard	3/28/2018 8:40:53 PM	2375	3.53	5060	1000.00000	955.498792	96
JU10	Standard	3/28/2018 8:51:40 PM	6403	3.52	5789	2500.00000	2313.434396	93
JU11	Standard	3/28/2018 9:02:26 PM	26440	3.52	5472	10000.00000	10257.940241	103
JU12	Standard	3/28/2018 9:13:13 PM	62540	3.51	6645	20000.00000	20027.638257	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	589	3.51	6205	N/A	156.879177	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	2692	3.51	5121	1000.00000	1075.771652	108
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	5908	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	7212	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	6858	3.51	7009	N/A	2041.336022	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	5132	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	15320	3.50	3147	N/A	10335.125564	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	17480	3.51	3603	N/A	10303.628373	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	4644	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	5771	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	7053	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	3279	3.50	6352	1000.00000	1055.343777	106
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	3360	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	3574	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	4929	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	3181	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	3139	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	6718	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	6596	3.50	6344	2500.00000	2172.217488	87

**Chromatograms:**



**Analyte:** PFBA (213.0 / 169.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	16320	1.04	28800	25.00000	<0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	17290	1.04	23950	50.00000	<0	N/A
JU06	Standard	3/28/2018 8:08:31 PM	54060	1.06	26920	100.00000	105.189946	105
JU07	Standard	3/28/2018 8:19:19 PM	97440	1.05	28720	250.00000	232.211131	93
JU08	Standard	3/28/2018 8:30:06 PM	134000	1.06	24190	500.00000	429.521654	86
JU09	Standard	3/28/2018 8:40:53 PM	345200	1.05	24740	1000.00000	1201.587327	120
JU10	Standard	3/28/2018 8:51:40 PM	597500	1.05	22930	2500.00000	2312.794736	93
JU11	Standard	3/28/2018 9:02:26 PM	2638000	1.05	22670	10000.00000	10601.454656	106
JU12	Standard	3/28/2018 9:13:13 PM	6531000	1.05	30670	20000.00000	19467.240551	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	31160	1.07	28780	N/A	20.217585	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	274200	1.05	24790	1000.00000	936.253893	94
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	28370	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	45440	1.04	28010	N/A	69.757917	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	988000	1.04	27970	N/A	3163.226926	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	8265	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1089000	1.18	9881	N/A	10040.797072	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1318000	1.19	11230	N/A	10685.121514	N/A

Not being used in this calibration.  
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	17200	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	9268	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	11320	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	464400	1.04	32620	1000.00000	1227.442979	123
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	137900	1.02	15710	N/A	726.419216	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	13160	N/A	N/A	N/A
<del>J5394-FS-D(5)</del>	<del>Unknown</del>	<del>3/29/2018 12:59:28 AM</del>	<del>N/A</del>	<del>N/A</del>	<del>28450</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	8947	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	13760	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	10440	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	773700	1.04	30610	2500.00000	2241.212351	90

Dilution not needed. DMS 4/4/2018

**Chromatograms:**

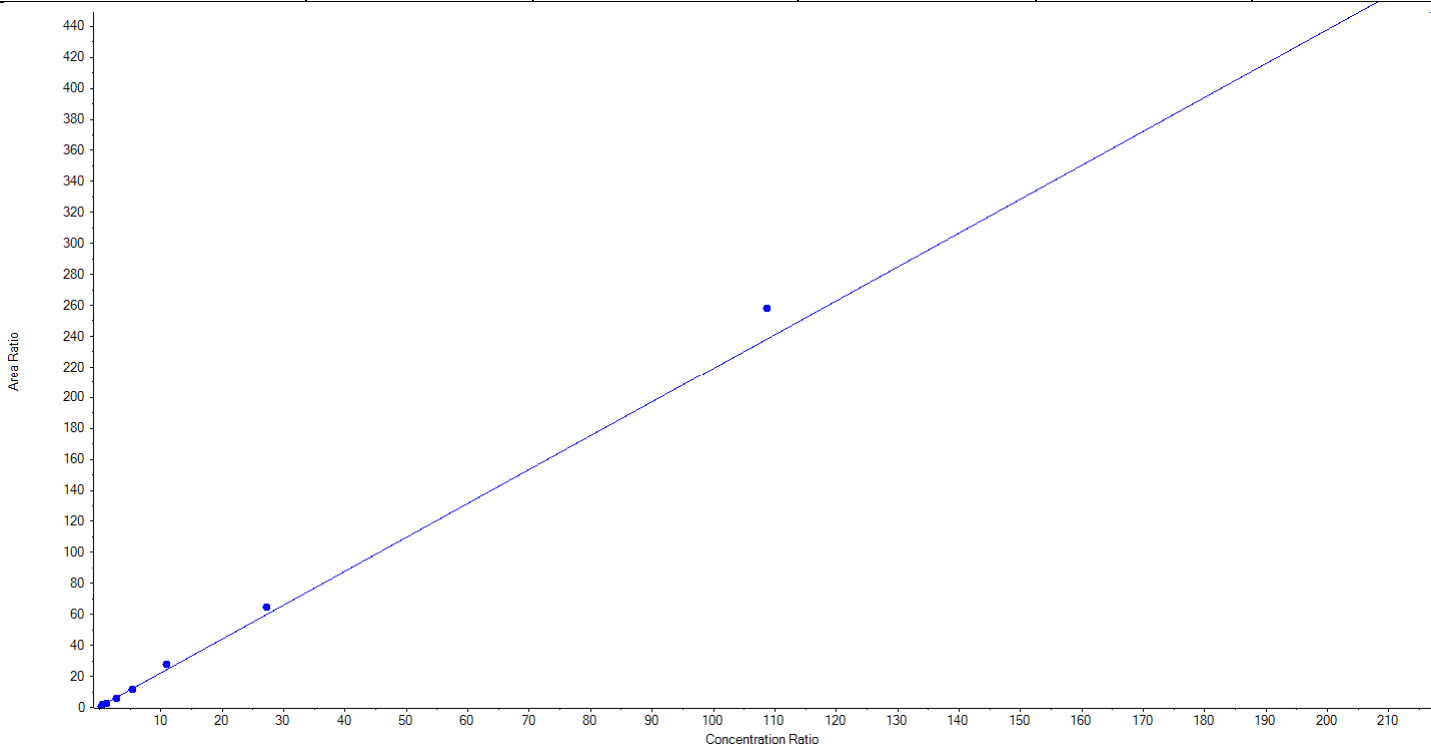
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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**Analyte Name:** PFBS\_1  
**Internal Standard:** 13C3-PFBS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 2.18745x + 0.38225$  (r = 0.99726) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	23.133236	91.6	N/A	N/A
50.50000	1 of 1	55.886592	110.7	N/A	N/A
101.00000	1 of 1	87.163084	86.3	N/A	N/A
252.50000	1 of 1	229.381129	90.8	N/A	N/A
505.00000	1 of 1	474.110294	93.9	N/A	N/A
1010.00000	1 of 1	1166.027800	115.5	N/A	N/A
2525.00000	1 of 1	2741.992350	108.6	N/A	N/A
10100.00000	1 of 1	10943.205444	108.4	N/A	N/A
20200.00000	1 of 1	19048.350072	94.3	N/A	N/A

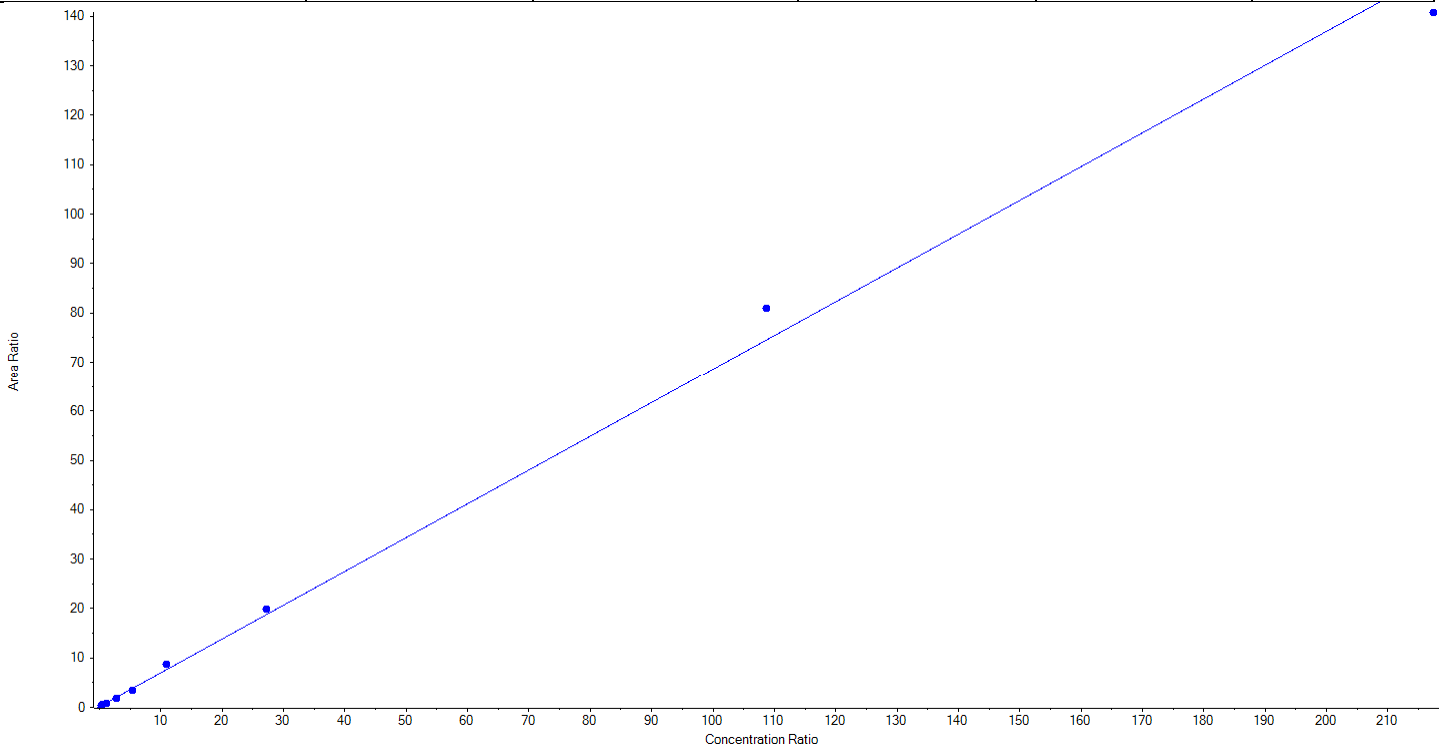


**Analyte Name:** PFBS\_2  
**Internal Standard:** 13C3-PFBS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.68407x + 0.15672$  ( $r = 0.99735$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	22.827342	90.4	N/A	N/A
50.50000	1 of 1	54.920579	108.8	N/A	N/A
101.00000	1 of 1	95.348578	94.4	N/A	N/A
252.50000	1 of 1	232.612471	92.1	N/A	N/A
505.00000	1 of 1	448.640793	88.8	N/A	N/A
1010.00000	1 of 1	1174.990896	116.3	N/A	N/A
2525.00000	1 of 1	2677.209151	106.0	N/A	N/A
10100.00000	1 of 1	10965.358307	108.6	N/A	N/A
20200.00000	1 of 1	19097.341882	94.5	N/A	N/A



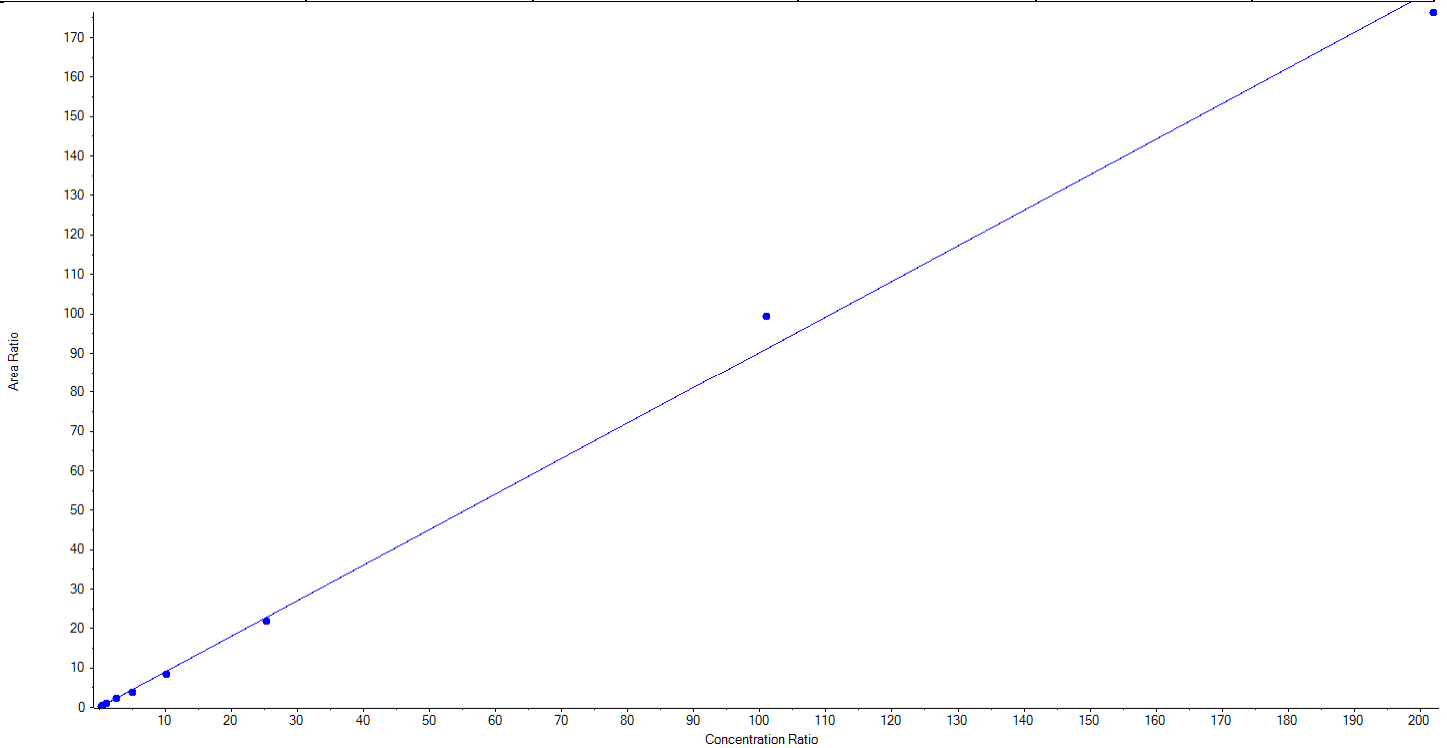


**Analyte Name:** PFHxA\_1  
**Internal Standard:** 13C5-PFHxA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.90163x + 0.02064$  ( $r = 0.99805$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	29.323363	116.1	N/A	N/A
50.50000	1 of 1	54.845712	108.6	N/A	N/A
101.00000	1 of 1	103.073511	102.1	N/A	N/A
252.50000	1 of 1	247.279848	97.9	N/A	N/A
505.00000	1 of 1	416.678143	82.5	N/A	N/A
1010.00000	1 of 1	916.426719	90.7	N/A	N/A
2525.00000	1 of 1	2427.864390	96.2	N/A	N/A
10100.00000	1 of 1	11013.601074	109.1	N/A	N/A
20200.00000	1 of 1	19560.157239	96.8	N/A	N/A

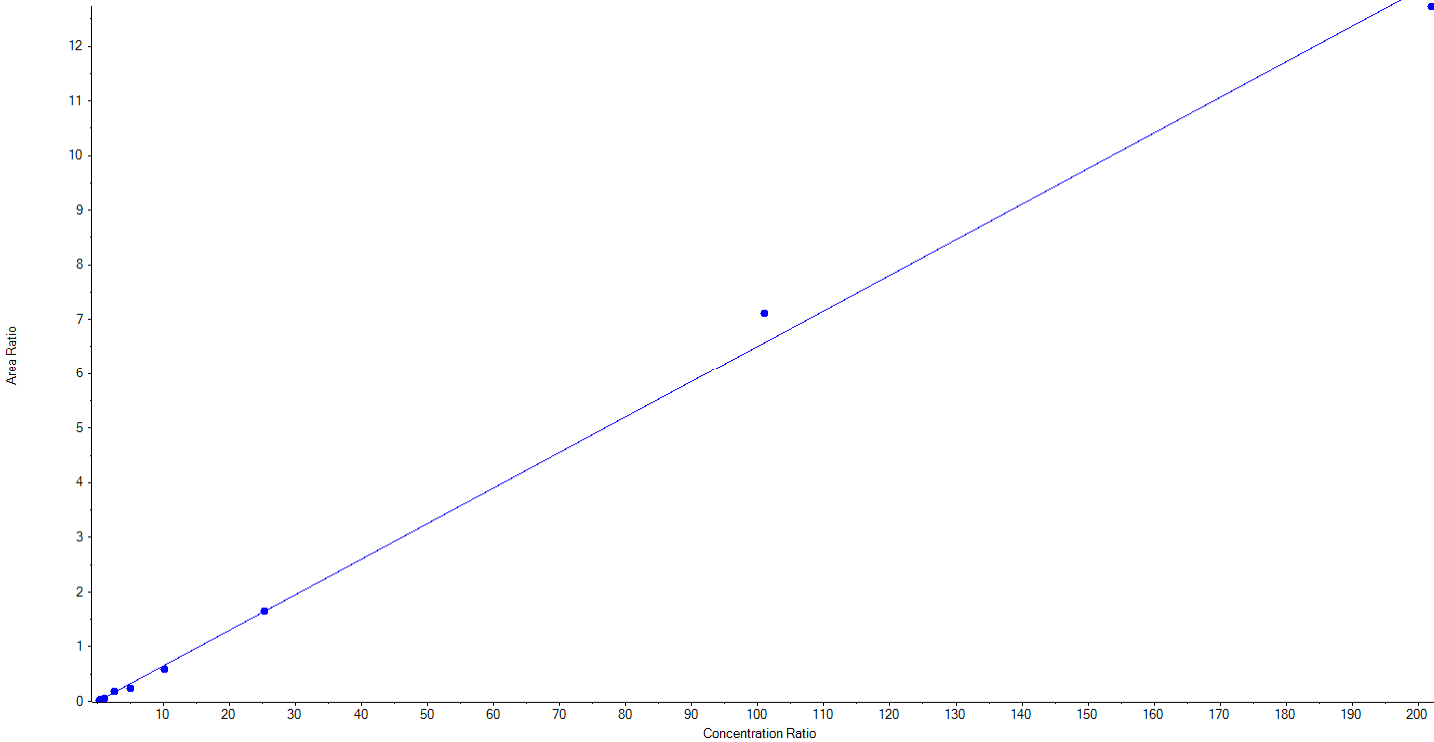


**Analyte Name:** PFHxA\_2  
**Internal Standard:** 13C5-PFHxA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.06508 x + 1.01684e-4$  (r = 0.99797) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	25.788130	102.1	N/A	N/A
50.50000	1 of 1	61.613692	122.0	N/A	N/A
101.00000	1 of 1	98.228932	97.3	N/A	N/A
252.50000	1 of 1	273.750615	108.4	N/A	N/A
505.00000	1 of 1	379.136656	75.1	N/A	N/A
1010.00000	1 of 1	907.452133	89.9	N/A	N/A
2525.00000	1 of 1	2528.019149	100.1	N/A	N/A
10100.00000	1 of 1	10944.260977	108.4	N/A	N/A
20200.00000	1 of 1	19550.999717	96.8	N/A	N/A

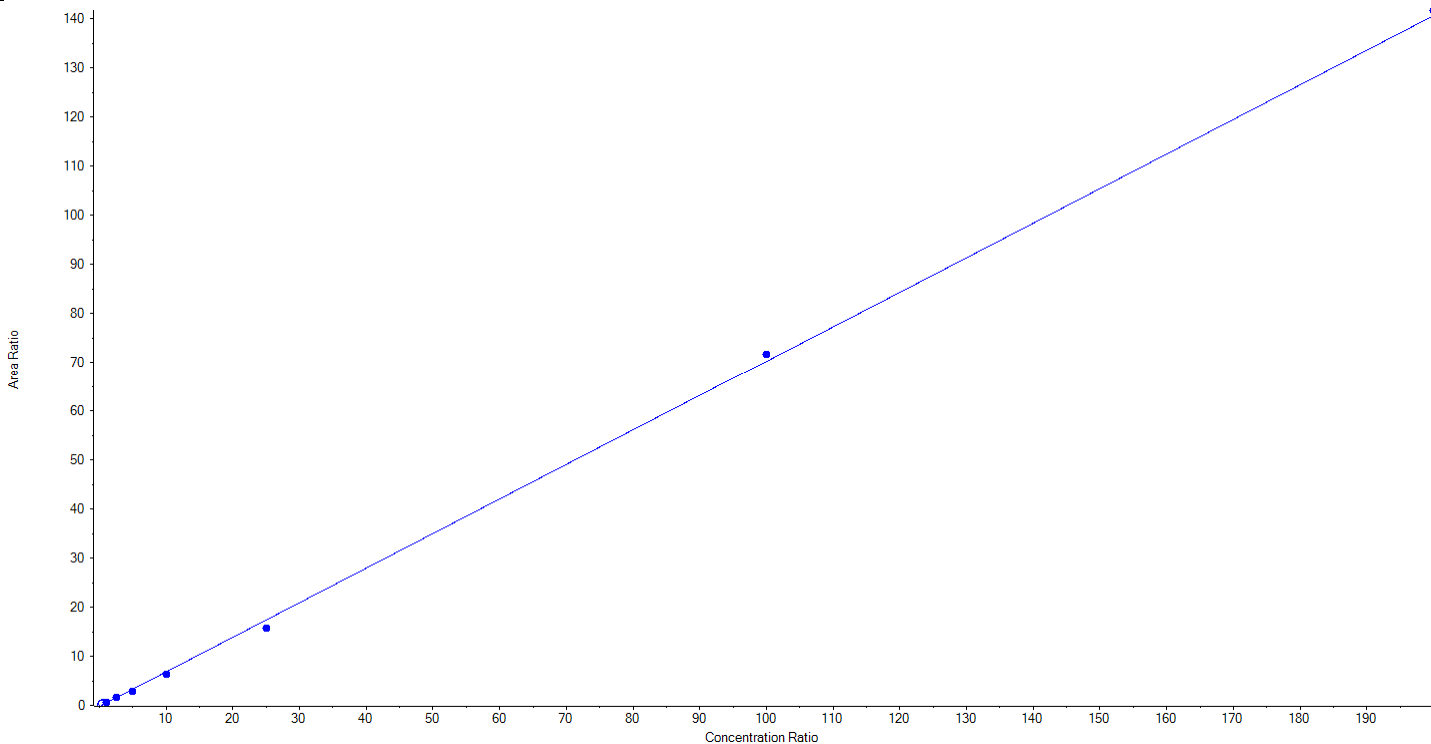


**Analyte Name:** PFHpA\_1  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.70421 x + -0.21391$  (r = 0.99921) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	126.677290	126.7	N/A	N/A
250.00000	1 of 1	251.606443	100.6	N/A	N/A
500.00000	1 of 1	435.826509	87.2	N/A	N/A
1000.00000	1 of 1	923.643237	92.4	N/A	N/A
2500.00000	1 of 1	2258.900966	90.4	N/A	N/A
10000.00000	1 of 1	10205.548132	102.1	N/A	N/A
20000.00000	1 of 1	20147.797423	100.7	N/A	N/A

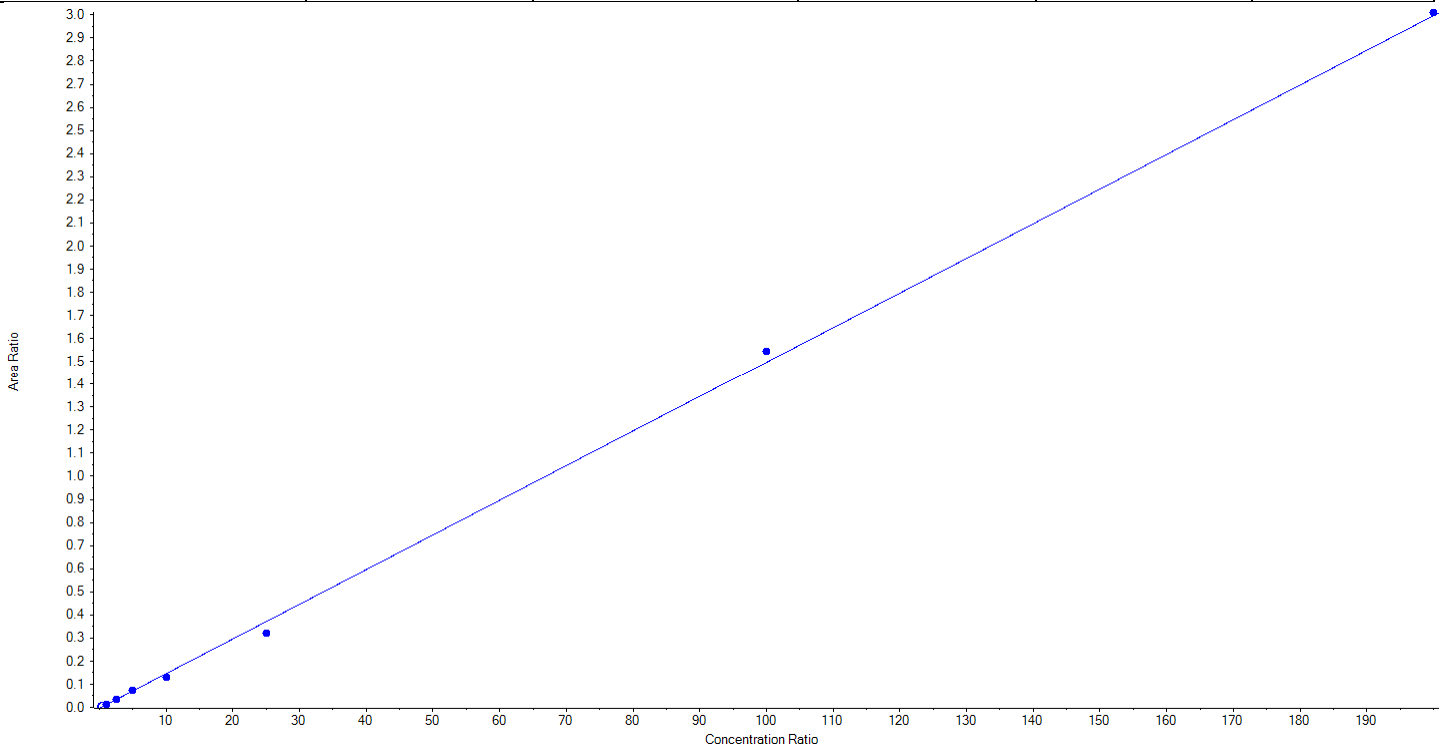


**Analyte Name:** PFHpA\_2  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.01500x + -0.00394$  ( $r = 0.99880$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	109.865247	109.9	N/A	N/A
250.00000	1 of 1	268.022015	107.2	N/A	N/A
500.00000	1 of 1	524.009955	104.8	N/A	N/A
1000.00000	1 of 1	883.574575	88.4	N/A	N/A
2500.00000	1 of 1	2152.378430	86.1	N/A	N/A
10000.00000	1 of 1	10322.122471	103.2	N/A	N/A
20000.00000	1 of 1	20090.027307	100.5	N/A	N/A

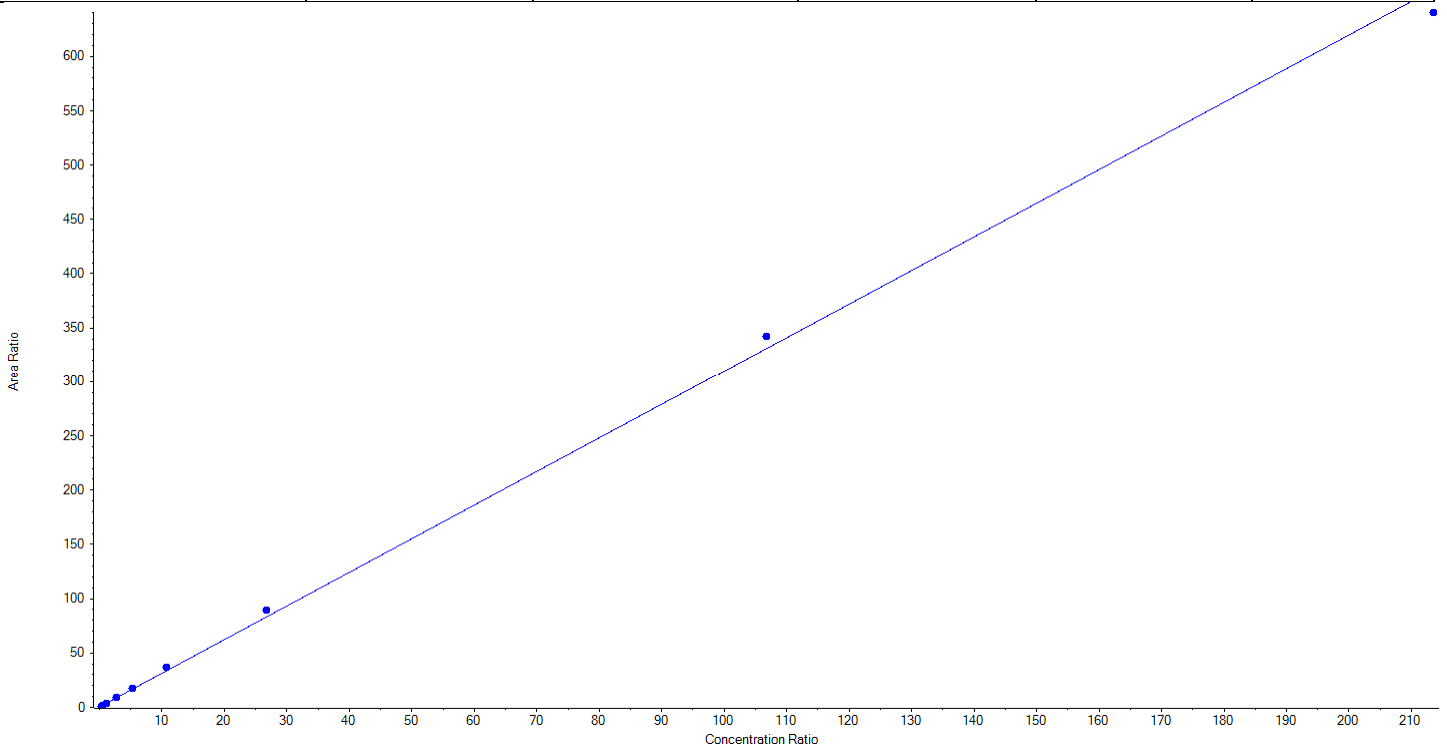


**Analyte Name:** PFHxS\_1  
**Internal Standard:** 13C3-PFHxS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 3.09576x + 0.48680$  ( $r = 0.99908$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	22.937318	90.8	N/A	N/A
50.50000	1 of 1	49.075900	97.2	N/A	N/A
101.00000	1 of 1	89.812255	88.9	N/A	N/A
252.50000	1 of 1	255.369183	101.1	N/A	N/A
505.00000	1 of 1	517.625925	102.5	N/A	N/A
1010.00000	1 of 1	1126.539821	111.5	N/A	N/A
2525.00000	1 of 1	2721.490627	107.8	N/A	N/A
10100.00000	1 of 1	10433.642448	103.3	N/A	N/A
20200.00000	1 of 1	19552.756523	96.8	N/A	N/A

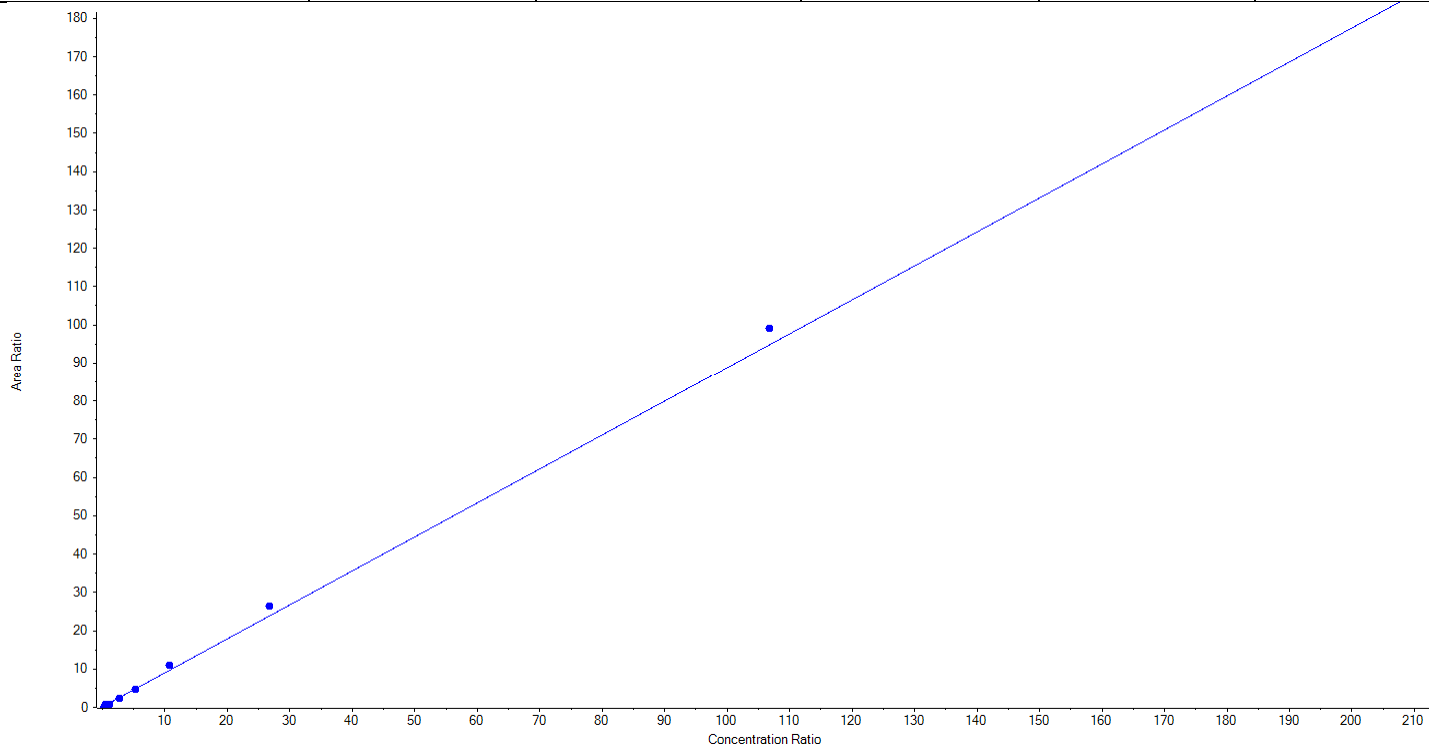


**Analyte Name:** PFHxS\_2  
**Internal Standard:** 13C3-PFHxS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.88658x + 0.15355$  ( $r = 0.99823$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	21.106561	83.6	N/A	N/A
50.50000	1 of 1	60.509038	119.8	N/A	N/A
101.00000	1 of 1	79.595844	78.8	N/A	N/A
252.50000	1 of 1	238.852883	94.6	N/A	N/A
505.00000	1 of 1	486.949855	96.4	N/A	N/A
1010.00000	1 of 1	1167.168355	115.6	N/A	N/A
2525.00000	1 of 1	2796.910116	110.8	N/A	N/A
10100.00000	1 of 1	10568.937184	104.6	N/A	N/A
20200.00000	1 of 1	19349.220166	95.8	N/A	N/A

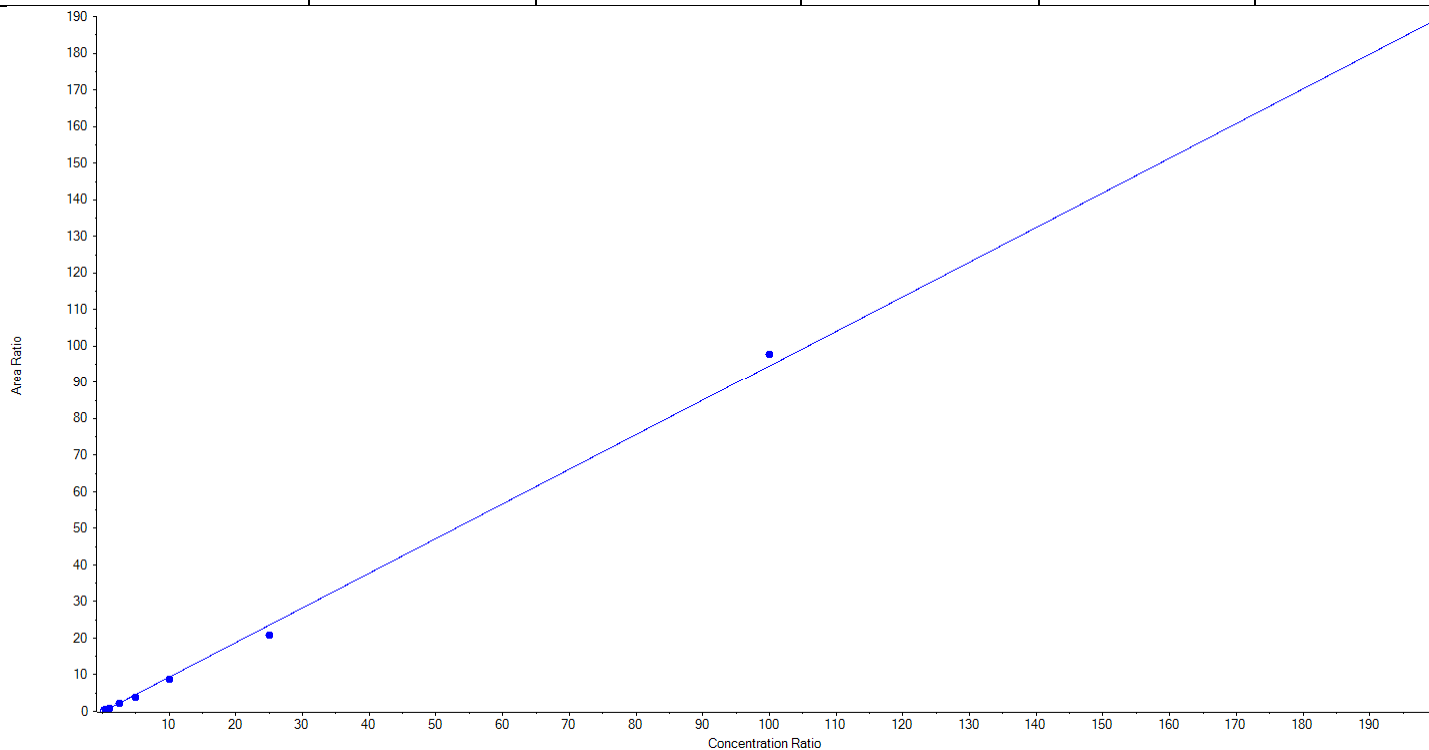


**Analyte Name:** PFOA\_1  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.94687x + -0.12530$  ( $r = 0.99894$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	64.906343	129.8	N/A	N/A
100.00000	1 of 1	103.754820	103.8	N/A	N/A
250.00000	1 of 1	245.616257	98.3	N/A	N/A
500.00000	1 of 1	411.578937	82.3	N/A	N/A
1000.00000	1 of 1	935.494107	93.6	N/A	N/A
2500.00000	1 of 1	2212.000554	88.5	N/A	N/A
10000.00000	1 of 1	10341.505236	103.4	N/A	N/A
20000.00000	1 of 1	20085.143746	100.4	N/A	N/A



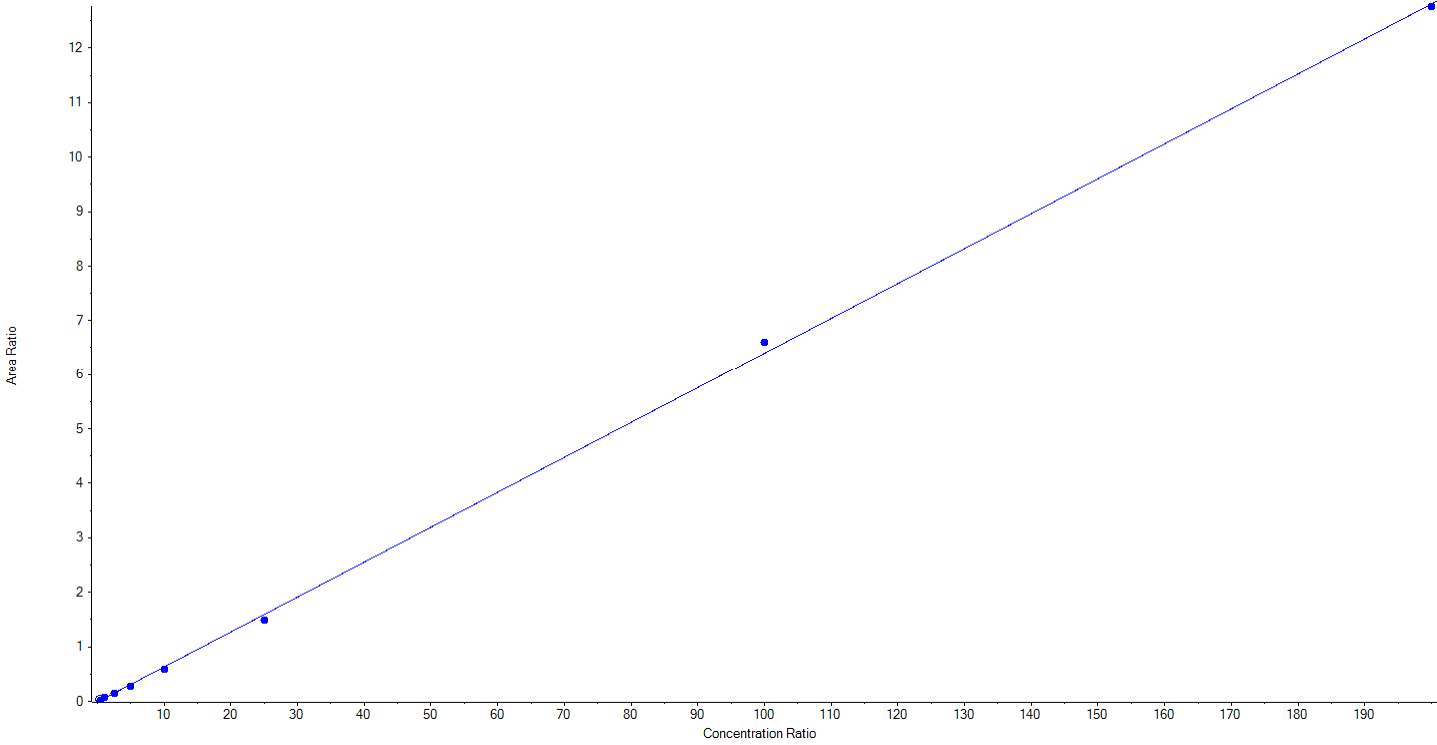


**Analyte Name:** PFOA\_2  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.06408x + -0.00873$  ( $r = 0.99936$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	46.202837	92.4	N/A	N/A
100.00000	1 of 1	129.513486	129.5	N/A	N/A
250.00000	1 of 1	250.652124	100.3	N/A	N/A
500.00000	1 of 1	437.291935	87.5	N/A	N/A
1000.00000	1 of 1	937.461254	93.8	N/A	N/A
2500.00000	1 of 1	2342.170705	93.7	N/A	N/A
10000.00000	1 of 1	10329.022157	103.3	N/A	N/A
20000.00000	1 of 1	19927.685501	99.6	N/A	N/A

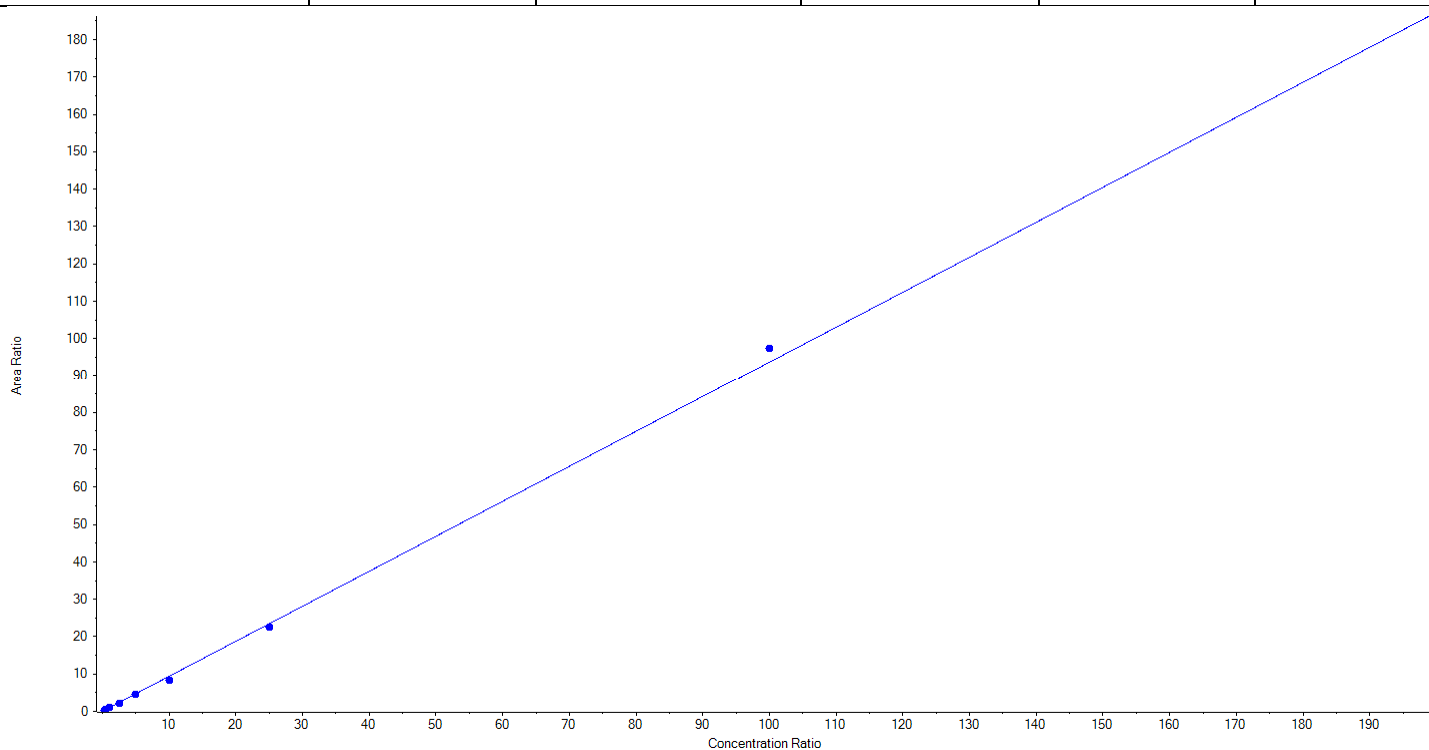


**Analyte Name:** PFNA\_1  
**Internal Standard:** 13C9-PFNA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.93630x + 0.04136$  ( $r = 0.99939$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	26.408705	105.6	N/A	N/A
50.00000	1 of 1	57.571578	115.1	N/A	N/A
100.00000	1 of 1	110.965588	111.0	N/A	N/A
250.00000	1 of 1	214.792597	85.9	N/A	N/A
500.00000	1 of 1	472.424505	94.5	N/A	N/A
1000.00000	1 of 1	888.246591	88.8	N/A	N/A
2500.00000	1 of 1	2395.783223	95.8	N/A	N/A
10000.00000	1 of 1	10380.894532	103.8	N/A	N/A
20000.00000	1 of 1	19877.912682	99.4	N/A	N/A

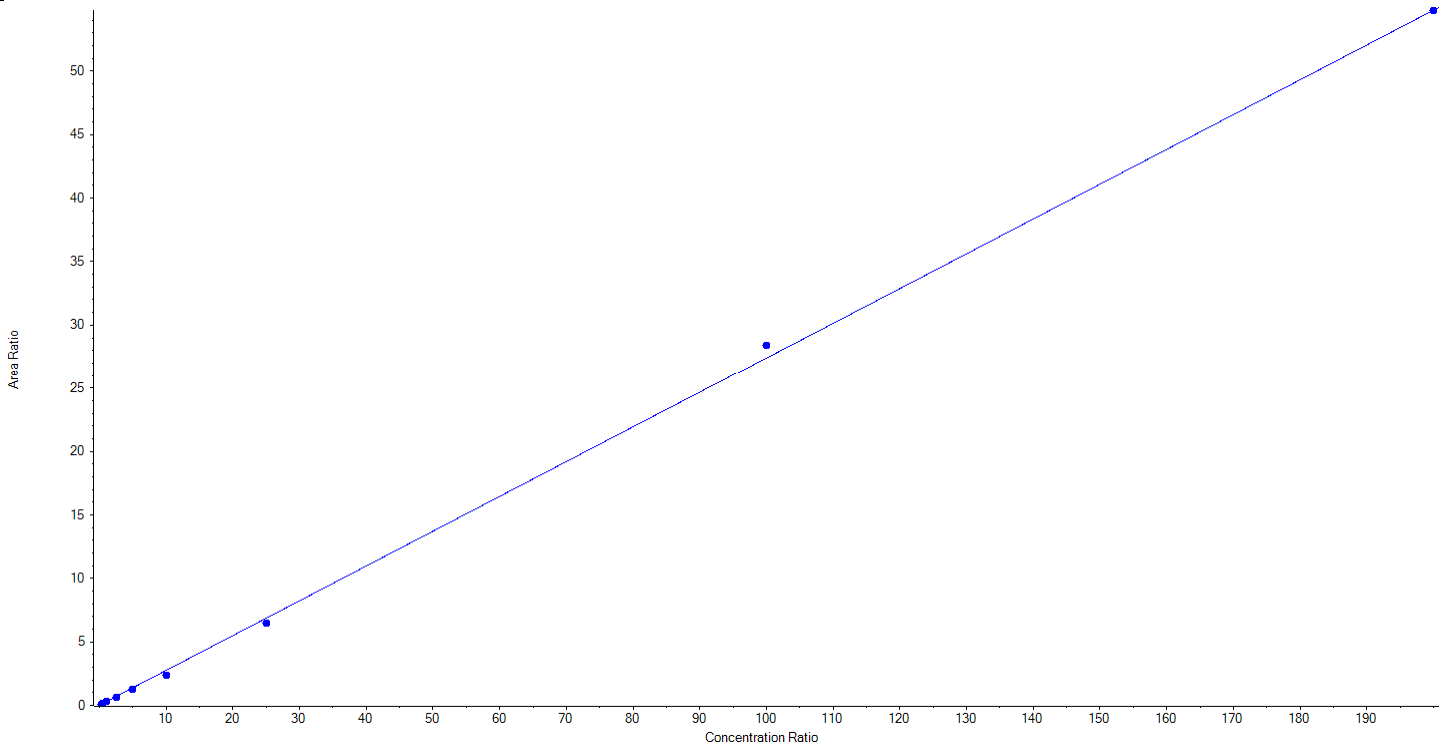


**Analyte Name:** PFNA\_2  
**Internal Standard:** 13C9-PFNA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.27387x + 0.01962$  (r = 0.99922) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	28.172571	112.7	N/A	N/A
50.00000	1 of 1	58.909086	117.8	N/A	N/A
100.00000	1 of 1	106.814777	106.8	N/A	N/A
250.00000	1 of 1	220.169138	88.1	N/A	N/A
500.00000	1 of 1	457.975669	91.6	N/A	N/A
1000.00000	1 of 1	853.213868	85.3	N/A	N/A
2500.00000	1 of 1	2354.800788	94.2	N/A	N/A
10000.00000	1 of 1	10355.167921	103.6	N/A	N/A
20000.00000	1 of 1	19989.776181	100.0	N/A	N/A

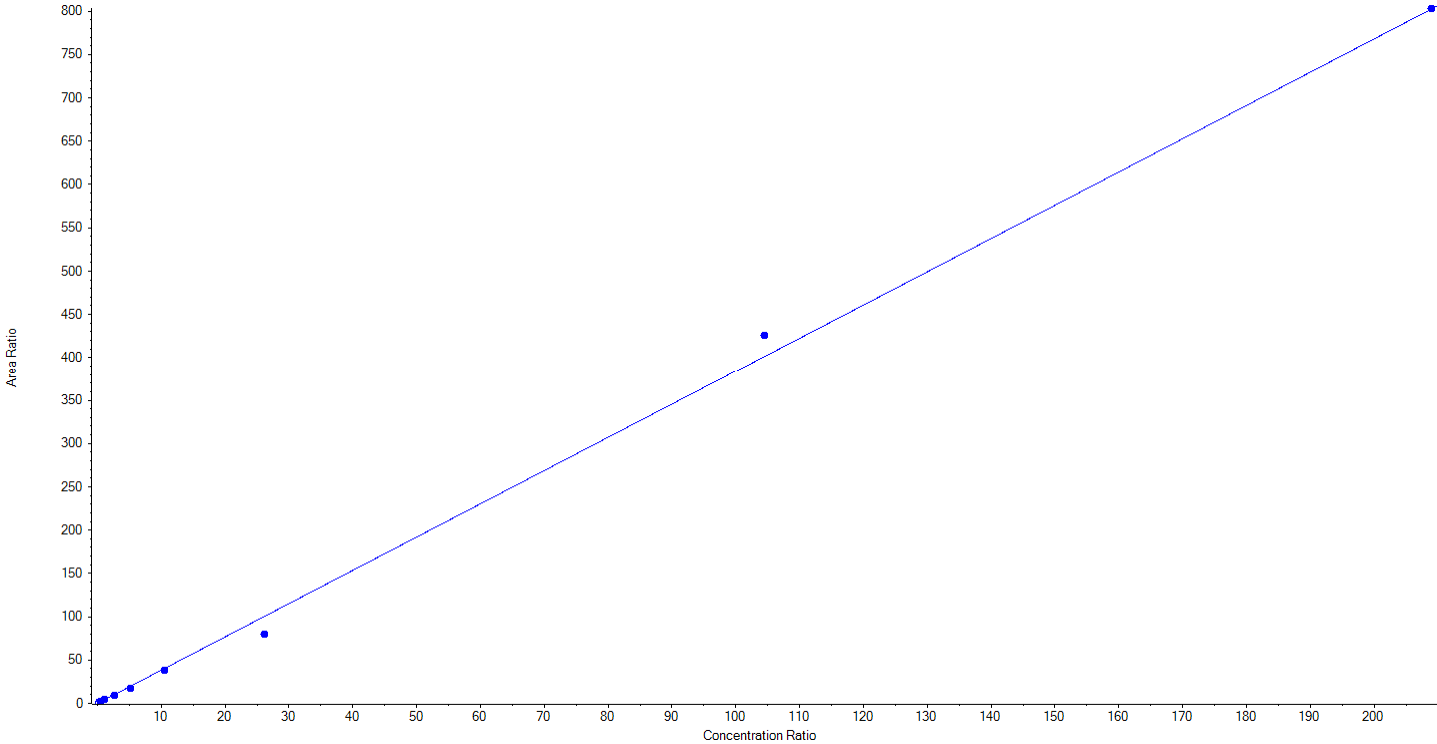


**Analyte Name:** PFOS\_1  
**Internal Standard:** 13C8-PFOS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 3.84024 x + -0.03957$  (r = 0.99757) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	59.585154	119.2	N/A	N/A
100.00000	1 of 1	121.841415	121.8	N/A	N/A
250.00000	1 of 1	227.760706	91.1	N/A	N/A
500.00000	1 of 1	436.117197	87.2	N/A	N/A
1000.00000	1 of 1	949.783027	95.0	N/A	N/A
2500.00000	1 of 1	1989.930640	79.6	N/A	N/A
10000.00000	1 of 1	10602.023283	106.0	N/A	N/A
20000.00000	1 of 1	20012.958577	100.1	N/A	N/A

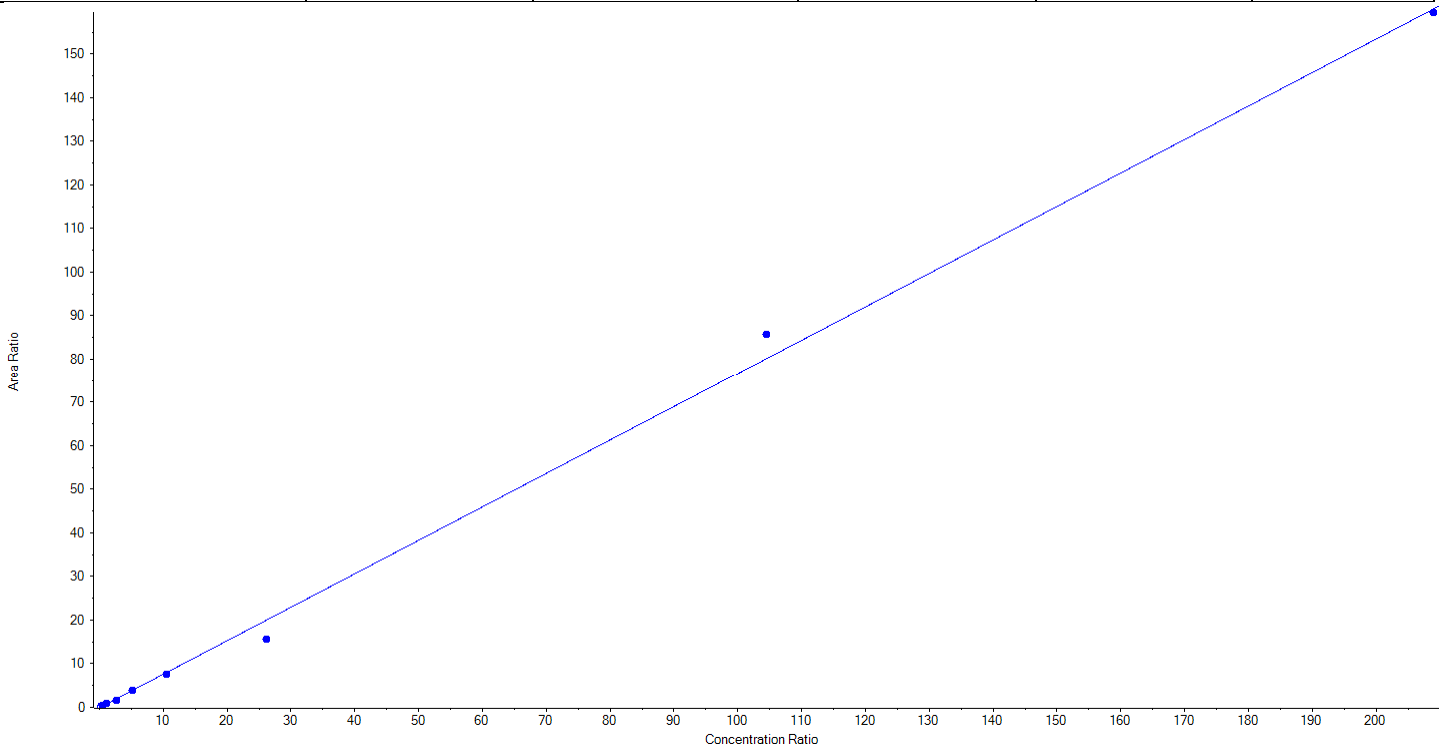


**Analyte Name:** PFOS\_2  
**Internal Standard:** 13C8-PFOS

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.76758x + -0.06908$  (r = 0.99718) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	54.284882	108.6	N/A	N/A
100.00000	1 of 1	124.600002	124.6	N/A	N/A
250.00000	1 of 1	220.153966	88.1	N/A	N/A
500.00000	1 of 1	489.624992	97.9	N/A	N/A
1000.00000	1 of 1	965.520411	96.6	N/A	N/A
2500.00000	1 of 1	1944.107796	77.8	N/A	N/A
10000.00000	1 of 1	10703.751120	107.0	N/A	N/A
20000.00000	1 of 1	19897.956831	99.5	N/A	N/A

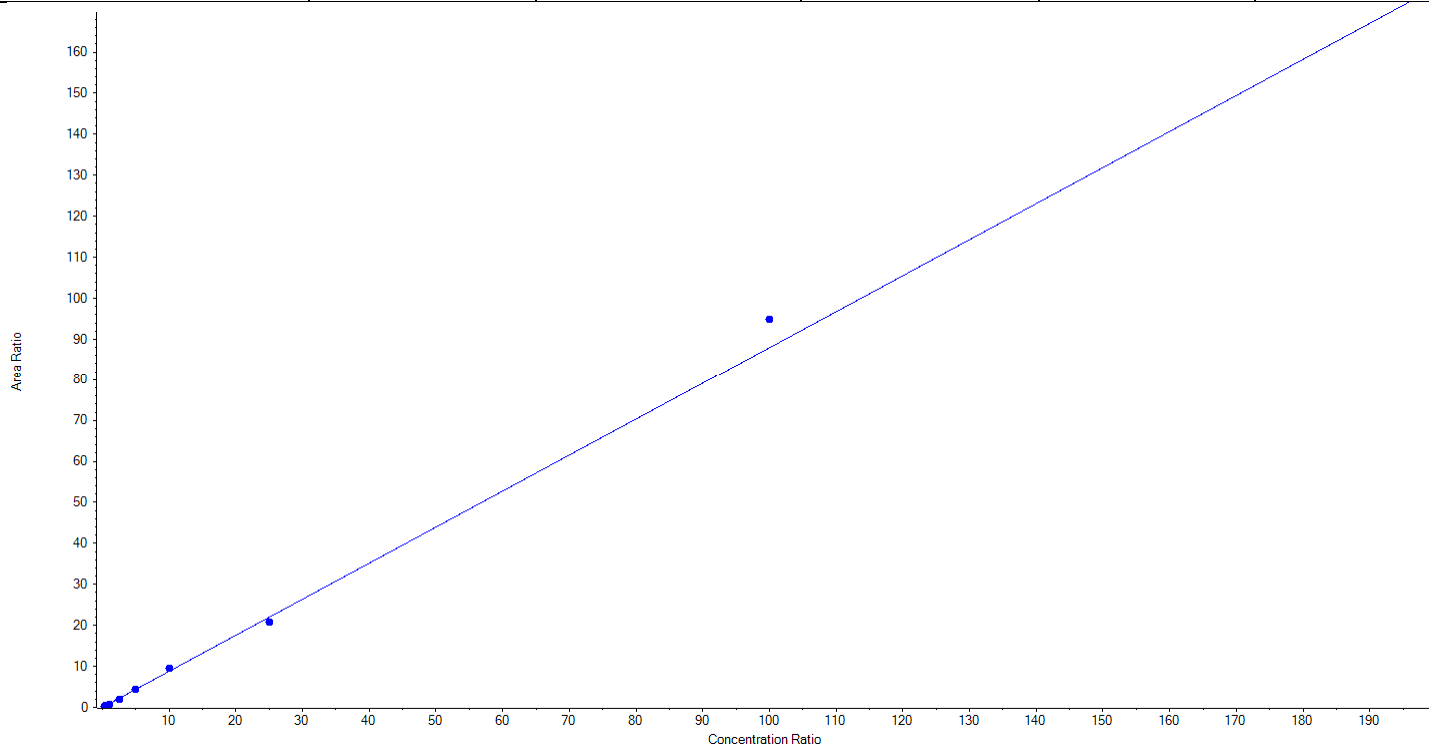


**Analyte Name:** PFDA\_1  
**Internal Standard:** 13C6-PFDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.87913x + 0.01398$  ( $r = 0.99840$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	24.035377	96.1	N/A	N/A
50.00000	1 of 1	57.556930	115.1	N/A	N/A
100.00000	1 of 1	94.427831	94.4	N/A	N/A
250.00000	1 of 1	219.062611	87.6	N/A	N/A
500.00000	1 of 1	493.107586	98.6	N/A	N/A
1000.00000	1 of 1	1091.945398	109.2	N/A	N/A
2500.00000	1 of 1	2364.046126	94.6	N/A	N/A
10000.00000	1 of 1	10781.952515	107.8	N/A	N/A
20000.00000	1 of 1	19298.865625	96.5	N/A	N/A

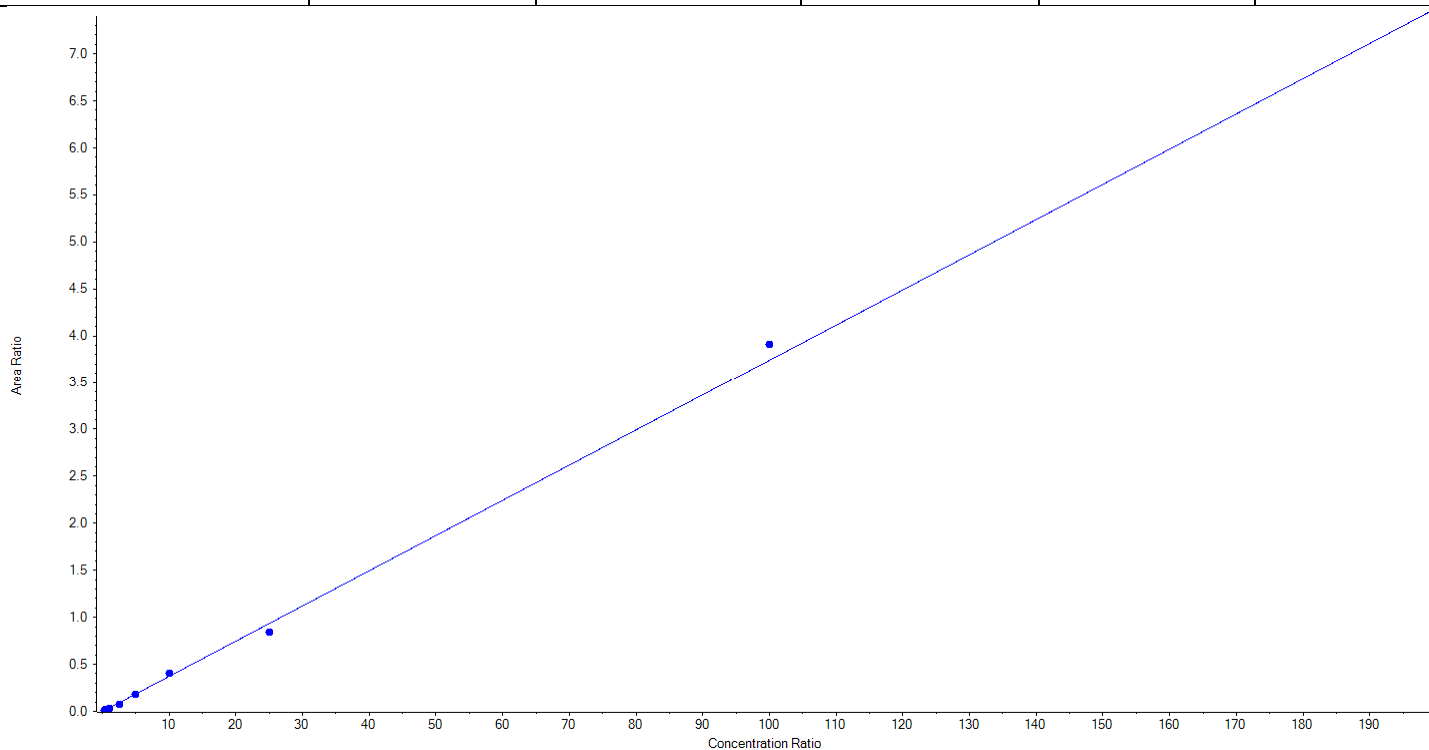


**Analyte Name:** PFDA\_2  
**Internal Standard:** 13C6-PFDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.03742 x + -0.00182$  (r = 0.99901) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	25.433676	101.7	N/A	N/A
50.00000	1 of 1	62.066931	124.1	N/A	N/A
100.00000	1 of 1	92.544003	92.5	N/A	N/A
250.00000	1 of 1	201.954782	80.8	N/A	N/A
500.00000	1 of 1	492.412977	98.5	N/A	N/A
1000.00000	1 of 1	1087.996321	108.8	N/A	N/A
2500.00000	1 of 1	2257.225740	90.3	N/A	N/A
10000.00000	1 of 1	10441.486410	104.4	N/A	N/A
20000.00000	1 of 1	19763.879159	98.8	N/A	N/A



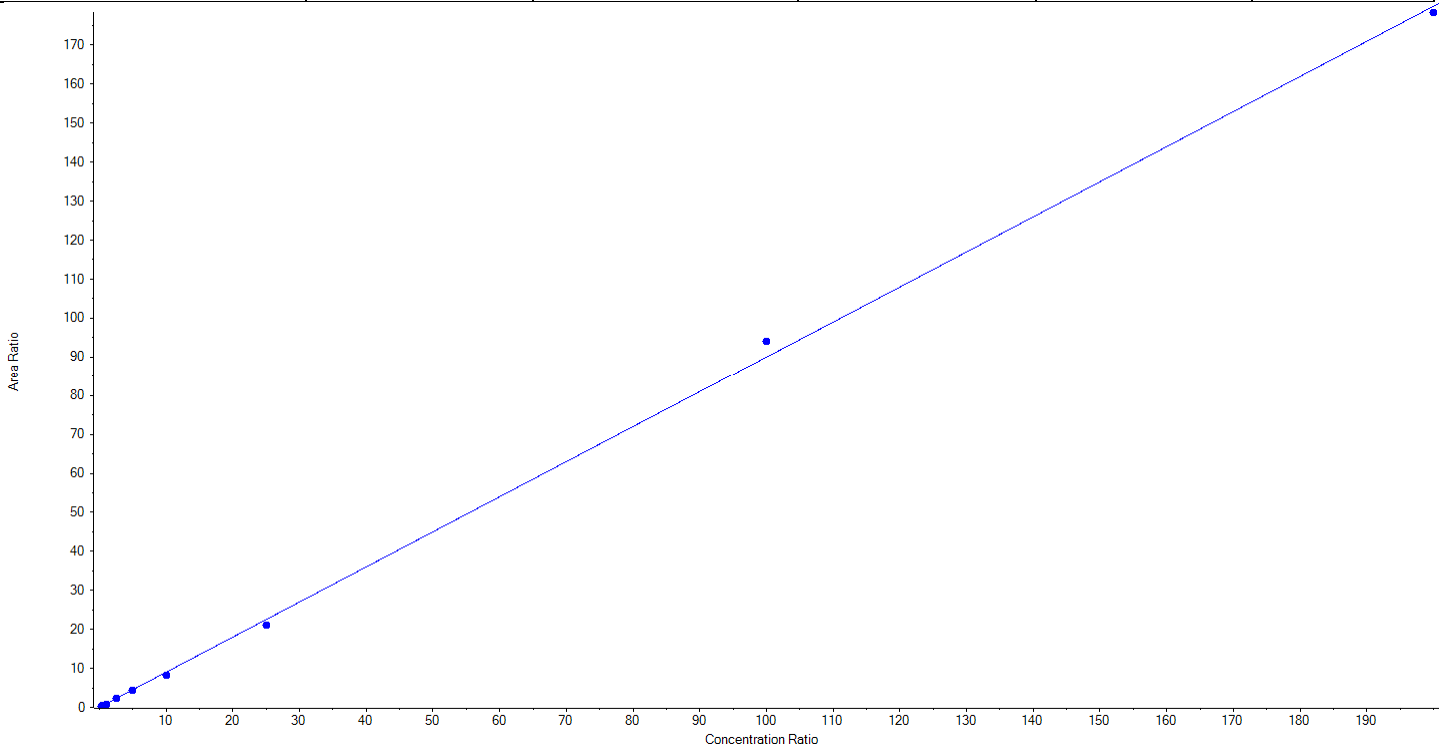


**Analyte Name:** PFUnA\_1  
**Internal Standard:** 13C7-PFUnA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.89966x + 0.03115$  ( $r = 0.99935$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	30.539769	122.2	N/A	N/A
50.00000	1 of 1	53.213871	106.4	N/A	N/A
100.00000	1 of 1	87.727520	87.7	N/A	N/A
250.00000	1 of 1	243.008644	97.2	N/A	N/A
500.00000	1 of 1	489.433442	97.9	N/A	N/A
1000.00000	1 of 1	916.880554	91.7	N/A	N/A
2500.00000	1 of 1	2332.216351	93.3	N/A	N/A
10000.00000	1 of 1	10451.781599	104.5	N/A	N/A
20000.00000	1 of 1	19820.198250	99.1	N/A	N/A

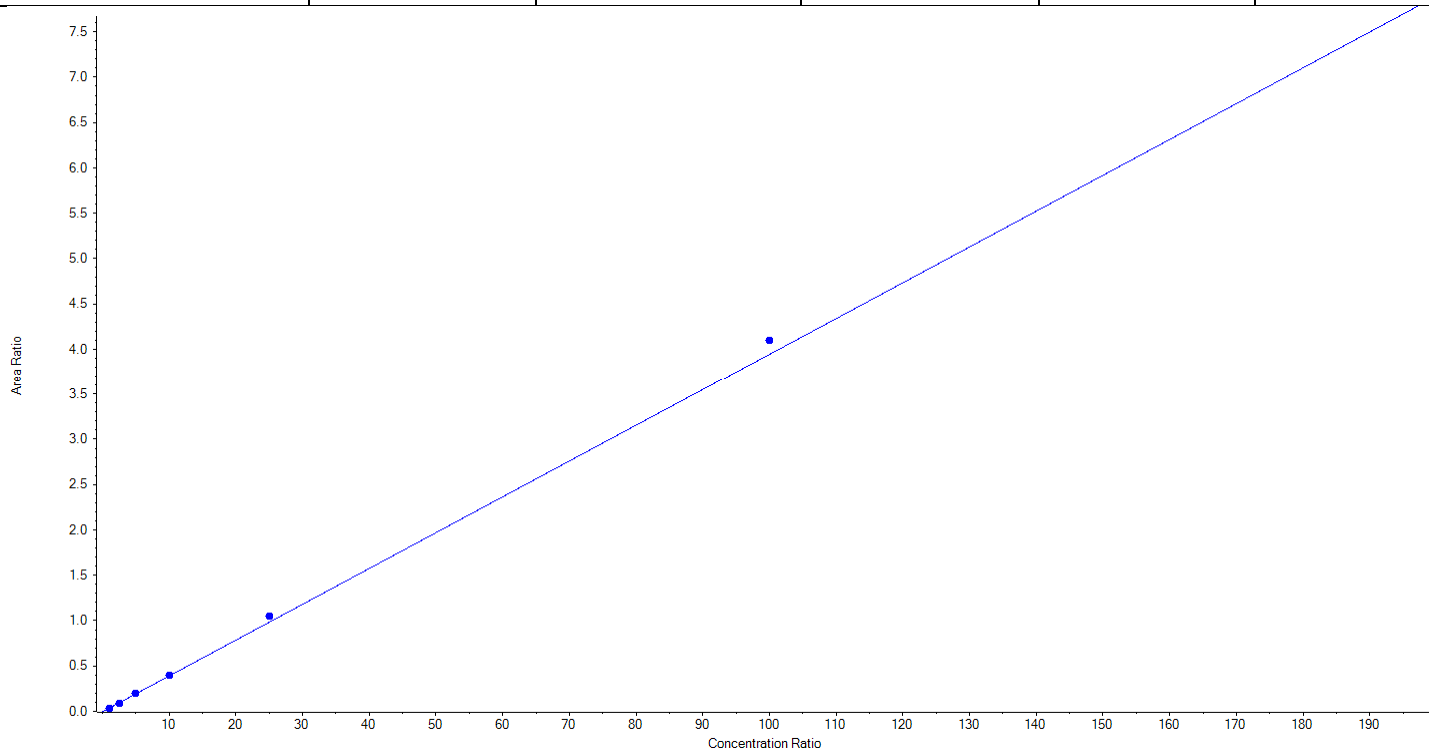


**Analyte Name:** PFUnA\_2  
**Internal Standard:** 13C7-PFUnA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.03948x + -0.00431$  ( $r = 0.99930$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	88.805487	88.8	N/A	N/A
250.00000	1 of 1	247.271558	98.9	N/A	N/A
500.00000	1 of 1	511.823131	102.4	N/A	N/A
1000.00000	1 of 1	1021.078885	102.1	N/A	N/A
2500.00000	1 of 1	2671.784446	106.9	N/A	N/A
10000.00000	1 of 1	10379.162990	103.8	N/A	N/A
20000.00000	1 of 1	19430.073503	97.2	N/A	N/A

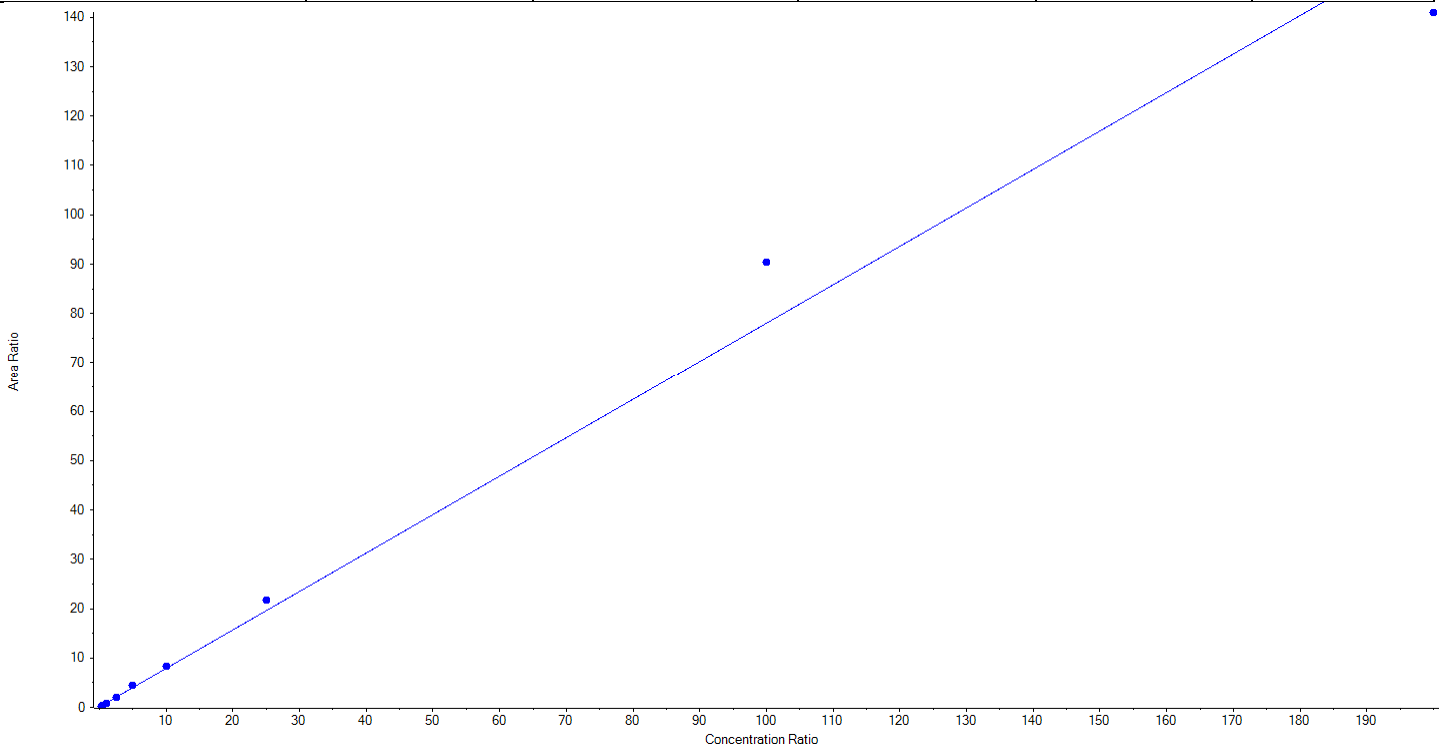


**Analyte Name:** PFDaA\_1  
**Internal Standard:** 13C2-PFDaA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.77920x + 0.11392$  ( $r = 0.99305$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	20.855428	83.4	N/A	N/A
50.00000	1 of 1	43.460589	86.9	N/A	N/A
100.00000	1 of 1	97.328906	97.3	N/A	N/A
250.00000	1 of 1	254.126128	101.7	N/A	N/A
500.00000	1 of 1	546.898506	109.4	N/A	N/A
1000.00000	1 of 1	1045.976761	104.6	N/A	N/A
2500.00000	1 of 1	2764.238202	110.6	N/A	N/A
10000.00000	1 of 1	11574.054096	115.7	N/A	N/A
20000.00000	1 of 1	18078.061385	90.4	N/A	N/A

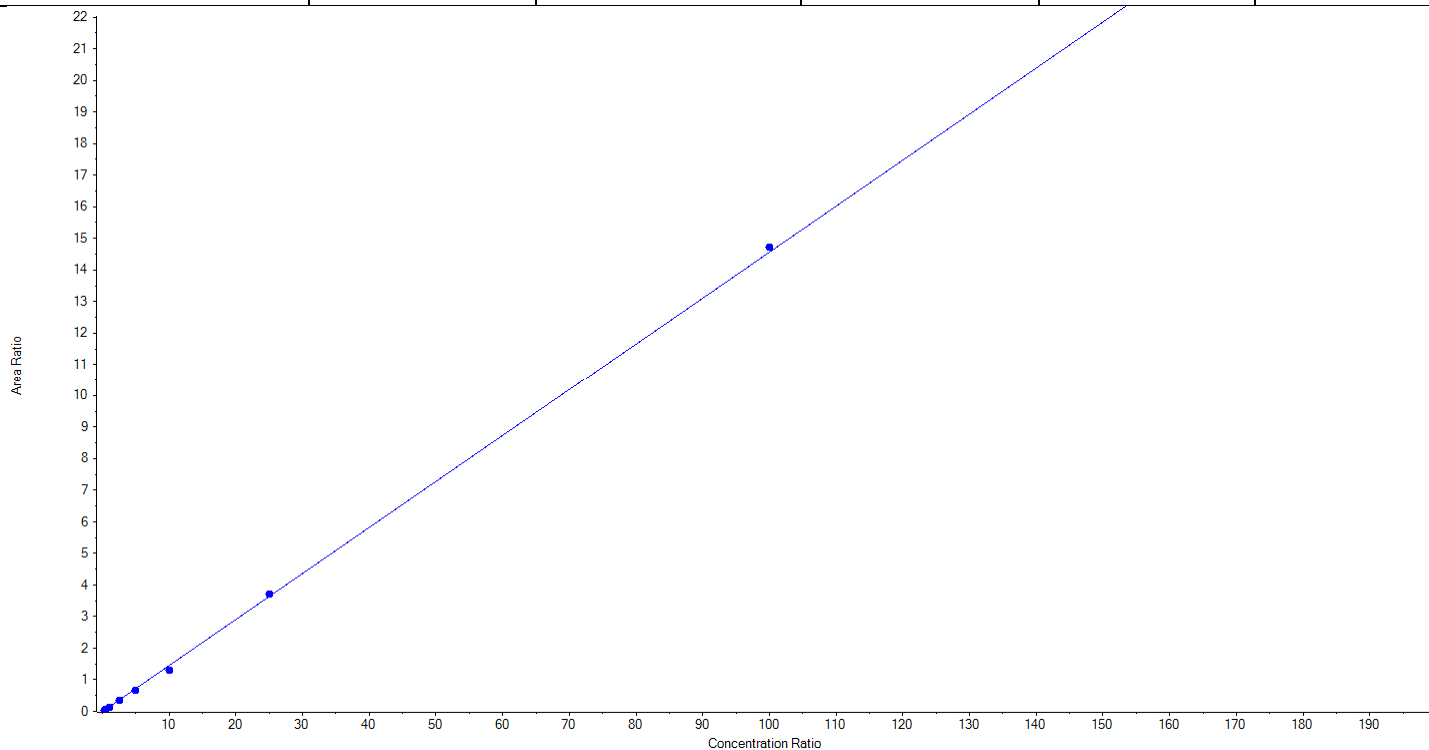


**Analyte Name:** PFDaA\_2  
**Internal Standard:** 13C2-PFDaA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.14569x + -0.00475$  ( $r = 0.99928$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	32.406706	129.6	N/A	N/A
50.00000	1 of 1	46.829534	93.7	N/A	N/A
100.00000	1 of 1	97.165942	97.2	N/A	N/A
250.00000	1 of 1	236.471294	94.6	N/A	N/A
500.00000	1 of 1	462.765301	92.6	N/A	N/A
1000.00000	1 of 1	893.050019	89.3	N/A	N/A
2500.00000	1 of 1	2551.282434	102.1	N/A	N/A
10000.00000	1 of 1	10105.028769	101.1	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A

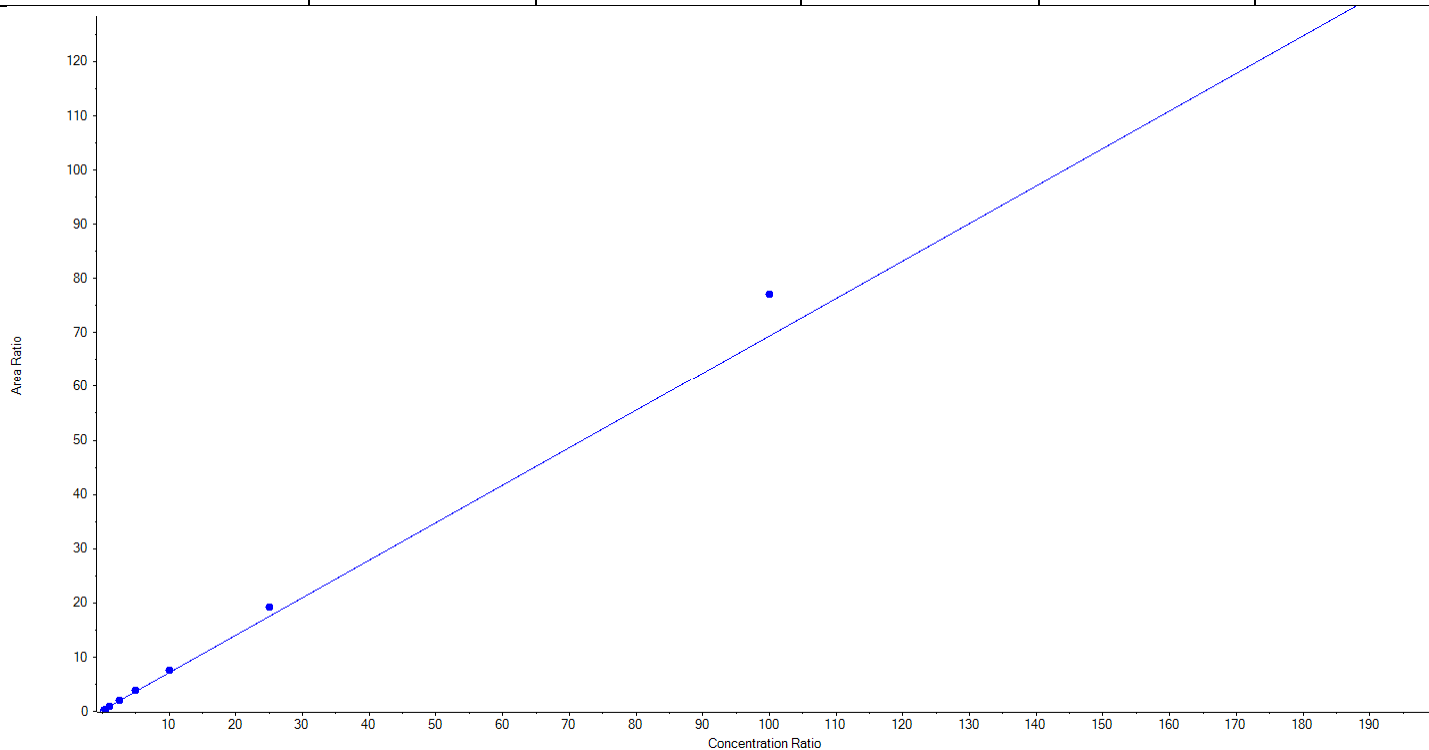


**Analyte Name:** PFTTrDA\_1  
**Internal Standard:** 13C2-PFTeDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.69172x + 0.21088$  ( $r = 0.99580$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	35.913950	71.8	N/A	N/A
100.00000	1 of 1	92.386404	92.4	N/A	N/A
250.00000	1 of 1	267.580630	107.0	N/A	N/A
500.00000	1 of 1	535.938234	107.2	N/A	N/A
1000.00000	1 of 1	1076.274180	107.6	N/A	N/A
2500.00000	1 of 1	2753.169286	110.1	N/A	N/A
10000.00000	1 of 1	11123.584284	111.2	N/A	N/A
20000.00000	1 of 1	18515.153032	92.6	N/A	N/A

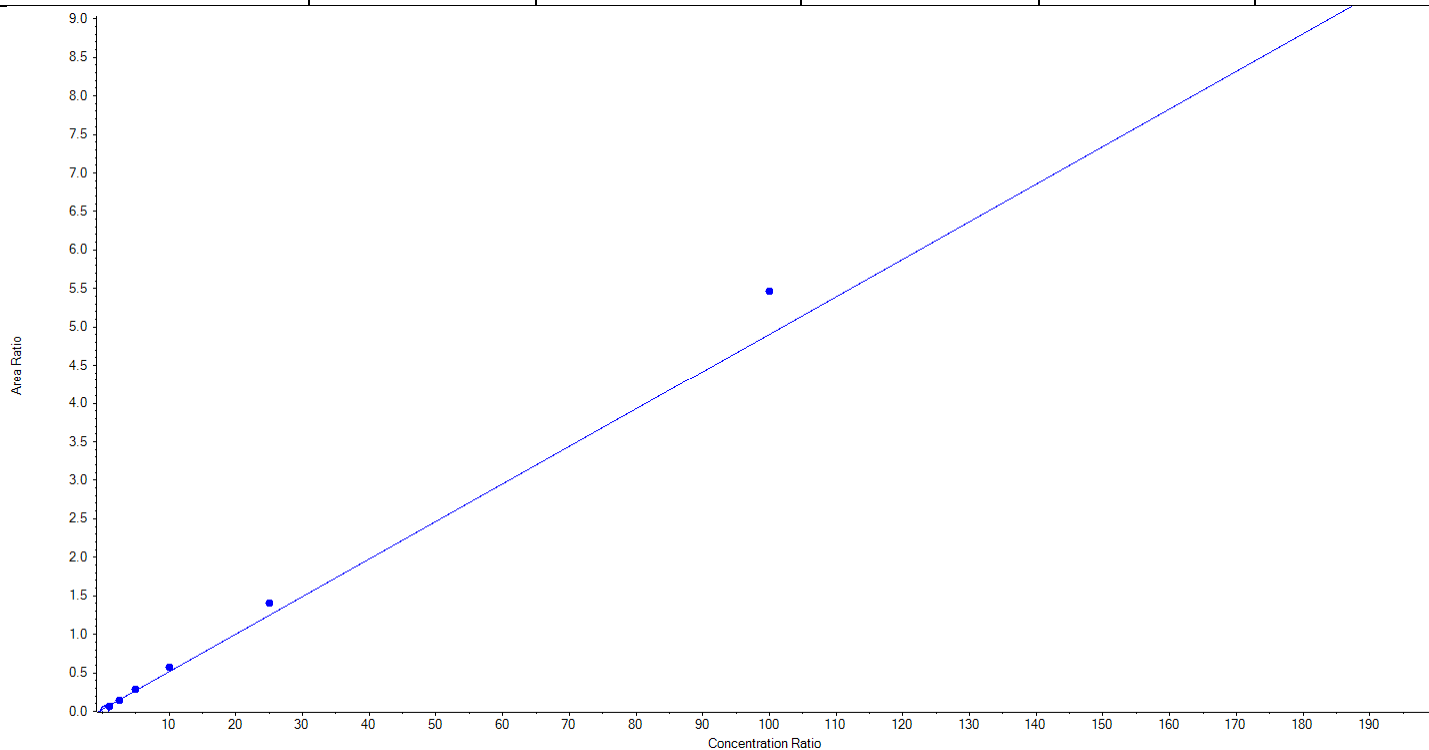


**Analyte Name:** PFTTrDA\_2  
**Internal Standard:** 13C2-PFTeDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.04877x + 0.02686$  ( $r = 0.99515$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	76.773814	76.8	N/A	N/A
250.00000	1 of 1	229.999584	92.0	N/A	N/A
500.00000	1 of 1	520.388921	104.1	N/A	N/A
1000.00000	1 of 1	1107.771007	110.8	N/A	N/A
2500.00000	1 of 1	2817.086727	112.7	N/A	N/A
10000.00000	1 of 1	11139.619812	111.4	N/A	N/A
20000.00000	1 of 1	18458.360135	92.3	N/A	N/A

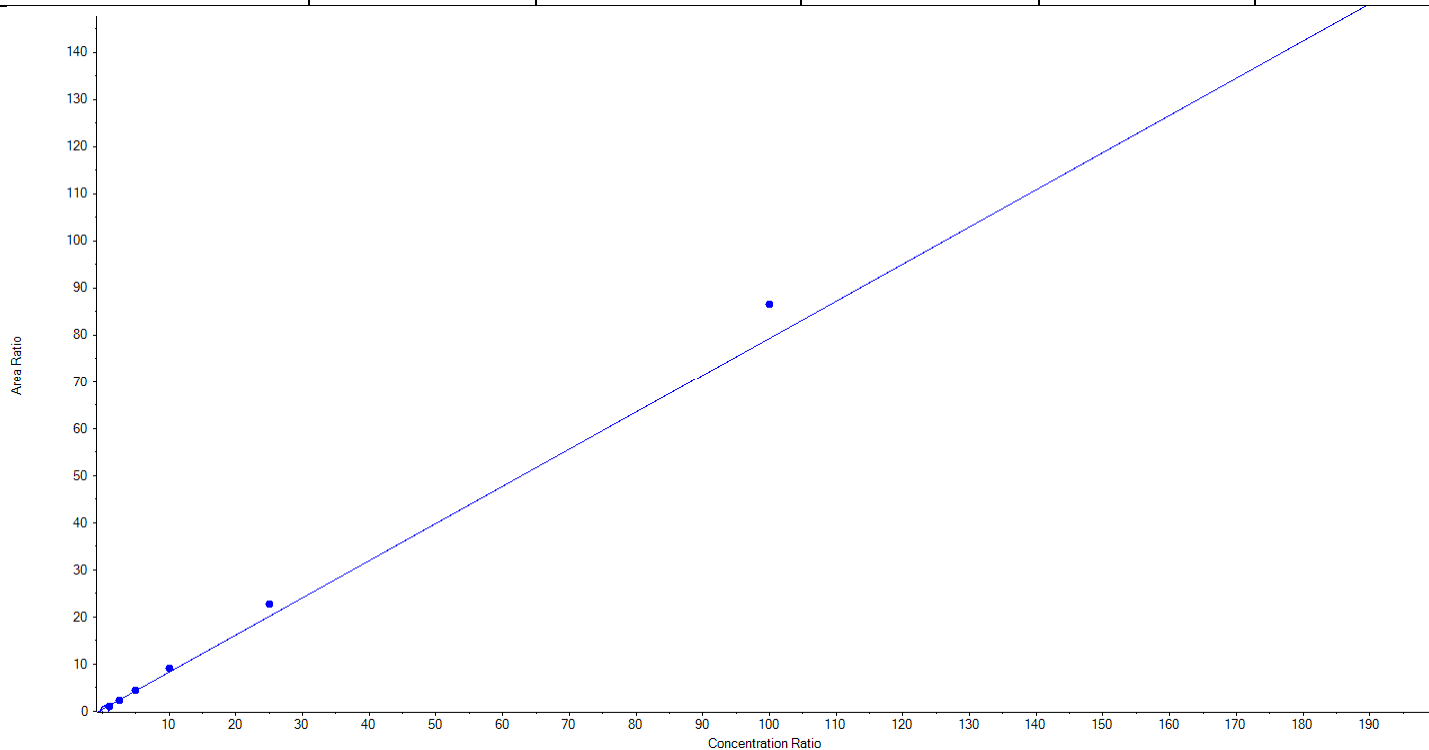


**Analyte Name:** PFTeDA\_1  
**Internal Standard:** 13C2-PFTeDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.78885x + 0.43047$  (r = 0.99623) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	71.817555	71.8	N/A	N/A
250.00000	1 of 1	245.085808	98.0	N/A	N/A
500.00000	1 of 1	517.938481	103.6	N/A	N/A
1000.00000	1 of 1	1105.559256	110.6	N/A	N/A
2500.00000	1 of 1	2839.848279	113.6	N/A	N/A
10000.00000	1 of 1	10912.363228	109.1	N/A	N/A
20000.00000	1 of 1	18657.387394	93.3	N/A	N/A



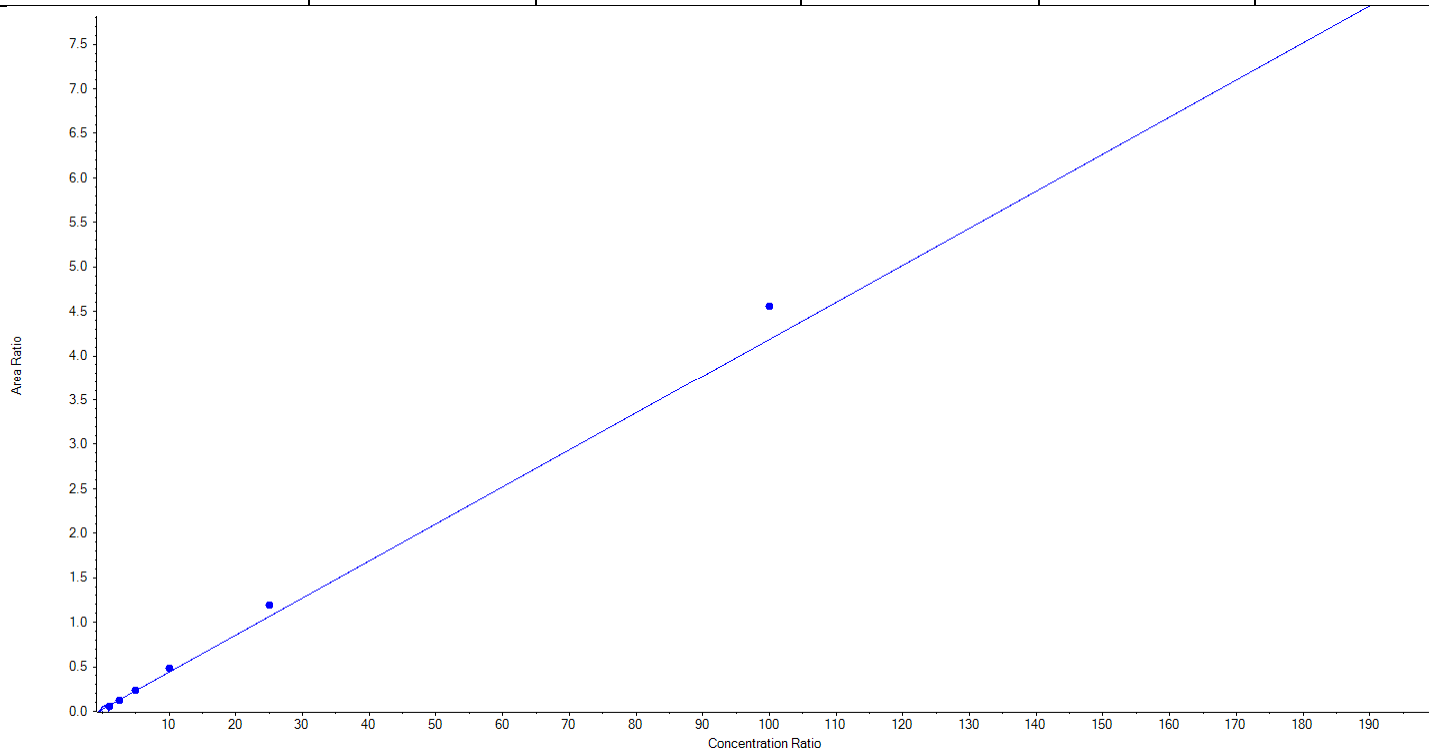


**Analyte Name:** PFTeDA\_2  
**Internal Standard:** 13C2-PFTeDA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.04162x + 0.02436$  (r = 0.99656) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	72.757944	72.8	N/A	N/A
250.00000	1 of 1	249.187337	99.7	N/A	N/A
500.00000	1 of 1	517.884349	103.6	N/A	N/A
1000.00000	1 of 1	1091.324172	109.1	N/A	N/A
2500.00000	1 of 1	2807.397684	112.3	N/A	N/A
10000.00000	1 of 1	10900.936811	109.0	N/A	N/A
20000.00000	1 of 1	18710.511703	93.6	N/A	N/A

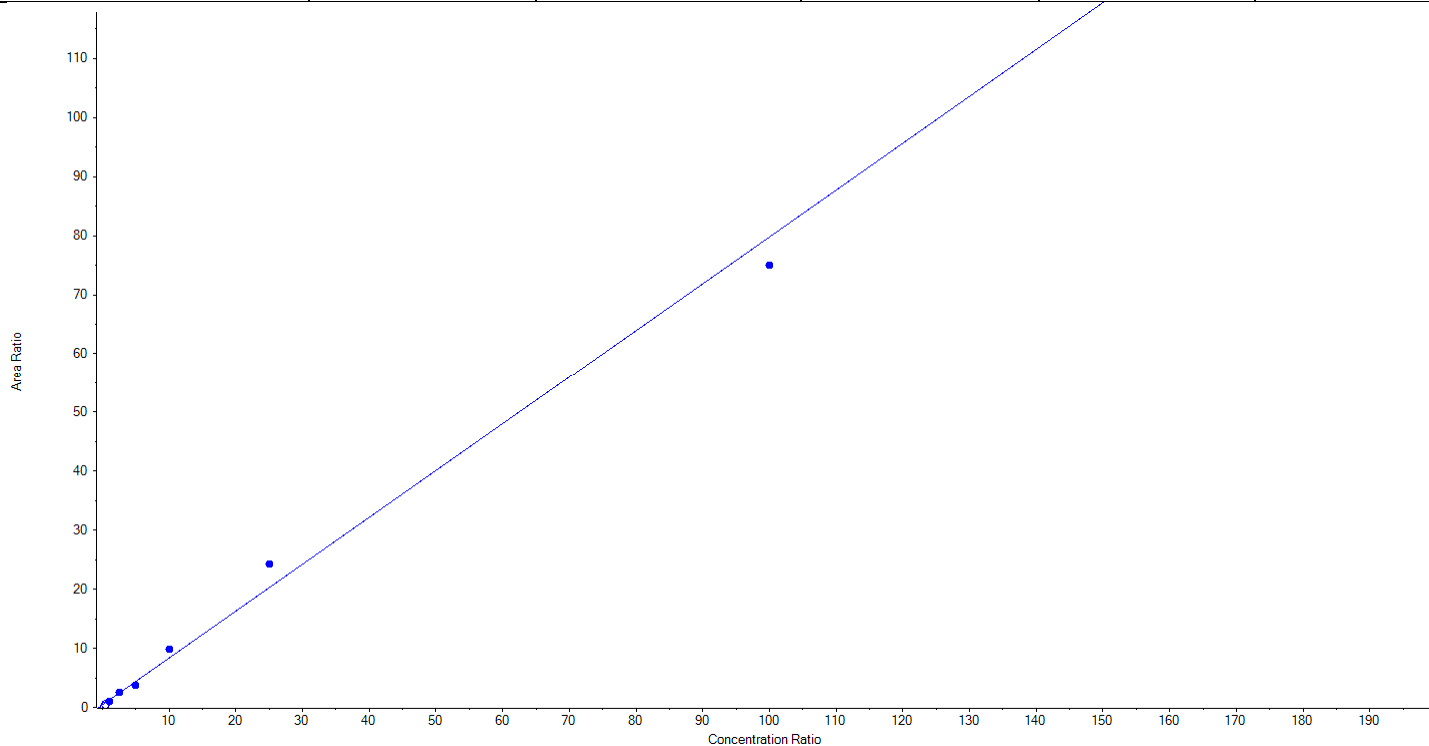


**Analyte Name:** NMeFOSAA\_1  
**Internal Standard:** d3-MeFOSAA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.79362x + 0.43415$  ( $r = 0.99254$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	74.272755	74.3	N/A	N/A
250.00000	1 of 1	273.477984	109.4	N/A	N/A
500.00000	1 of 1	422.761715	84.6	N/A	N/A
1000.00000	1 of 1	1180.017983	118.0	N/A	N/A
2500.00000	1 of 1	2992.907145	119.7	N/A	N/A
10000.00000	1 of 1	9406.562418	94.1	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A

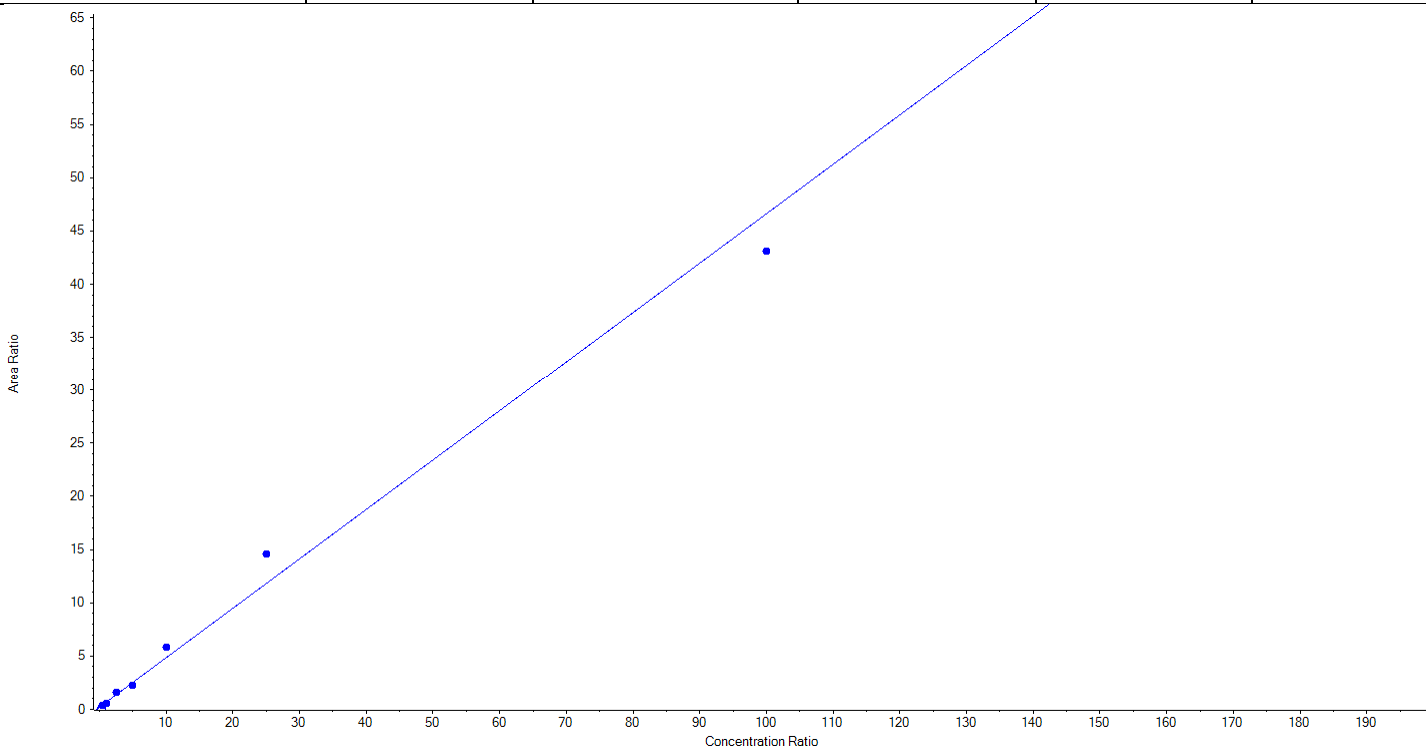


**Analyte Name:** NMeFOSAA\_2  
**Internal Standard:** d3-MeFOSAA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.46405x + 0.21158$  ( $r = 0.99032$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	38.736195	77.5	N/A	N/A
100.00000	1 of 1	80.173295	80.2	N/A	N/A
250.00000	1 of 1	290.165590	116.1	N/A	N/A
500.00000	1 of 1	447.227836	89.5	N/A	N/A
1000.00000	1 of 1	1208.293784	120.8	N/A	N/A
2500.00000	1 of 1	3088.636692	123.6	N/A	N/A
10000.00000	1 of 1	9246.766608	92.5	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A

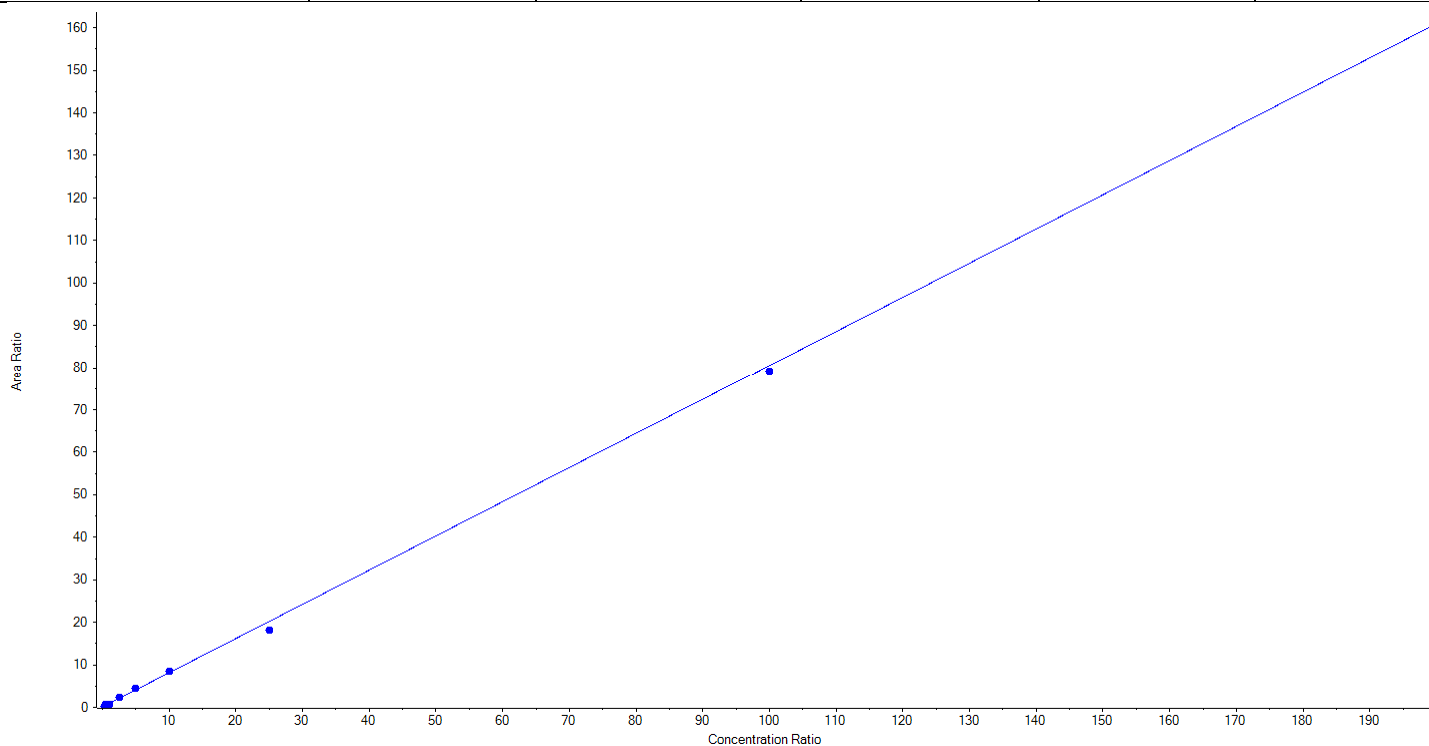


**Analyte Name:** NEtFOSAA\_1  
**Internal Standard:** d5-EtFOSAA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.80427x + 0.10895$  ( $r = 0.99925$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	19.094443	76.4	N/A	N/A
50.00000	1 of 1	64.289932	128.6	N/A	N/A
100.00000	1 of 1	83.146585	83.2	N/A	N/A
250.00000	1 of 1	276.946160	110.8	N/A	N/A
500.00000	1 of 1	529.488560	105.9	N/A	N/A
1000.00000	1 of 1	1054.448961	105.4	N/A	N/A
2500.00000	1 of 1	2247.617650	89.9	N/A	N/A
10000.00000	1 of 1	9824.032079	98.2	N/A	N/A
20000.00000	1 of 1	20325.935630	101.6	N/A	N/A

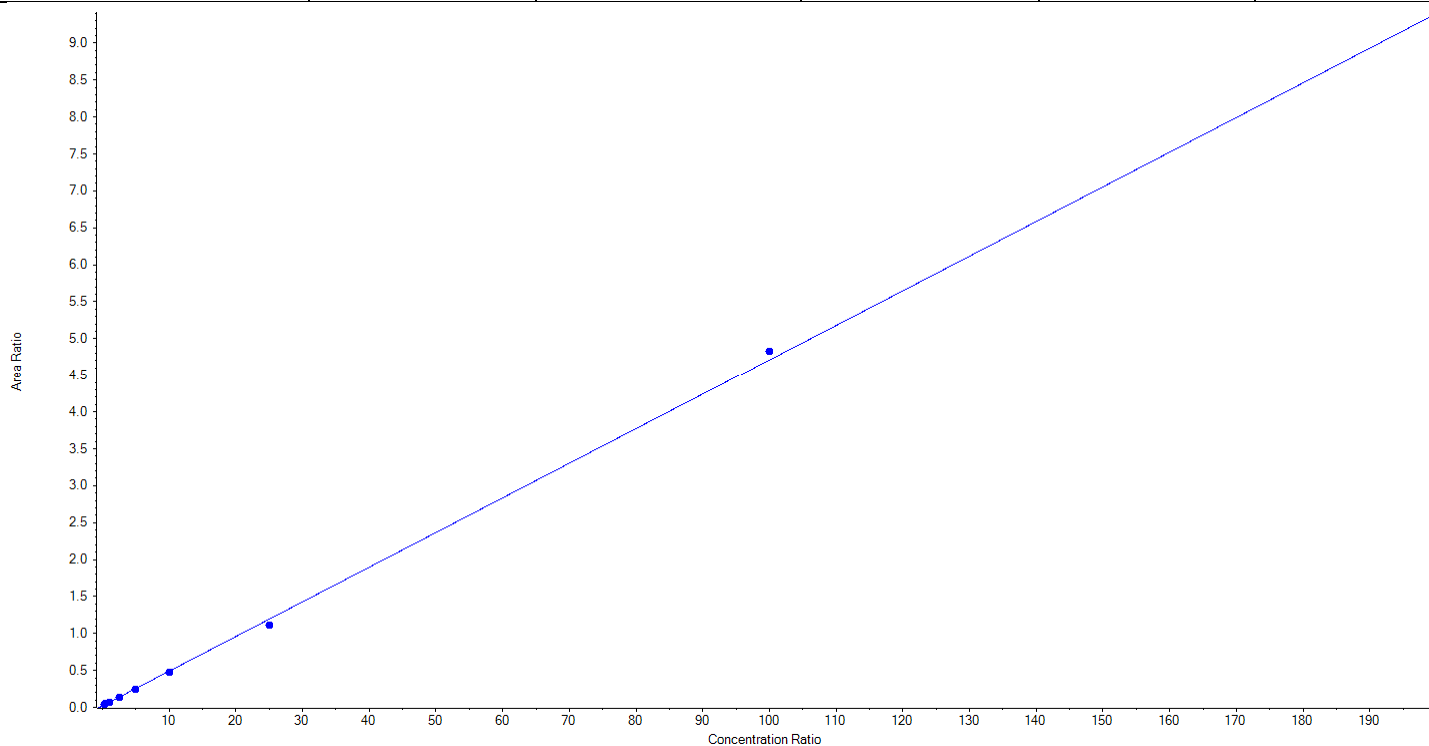


**Analyte Name:** NEtFOSAA\_2  
**Internal Standard:** d5-EtFOSAA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.04689x + 0.02133$  (r = 0.99956) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	29.600031	118.4	N/A	N/A
50.00000	1 of 1	56.985468	114.0	N/A	N/A
100.00000	1 of 1	92.381424	92.4	N/A	N/A
250.00000	1 of 1	230.691938	92.3	N/A	N/A
500.00000	1 of 1	460.829454	92.2	N/A	N/A
1000.00000	1 of 1	955.498792	95.6	N/A	N/A
2500.00000	1 of 1	2313.434396	92.5	N/A	N/A
10000.00000	1 of 1	10257.940241	102.6	N/A	N/A
20000.00000	1 of 1	20027.638257	100.1	N/A	N/A

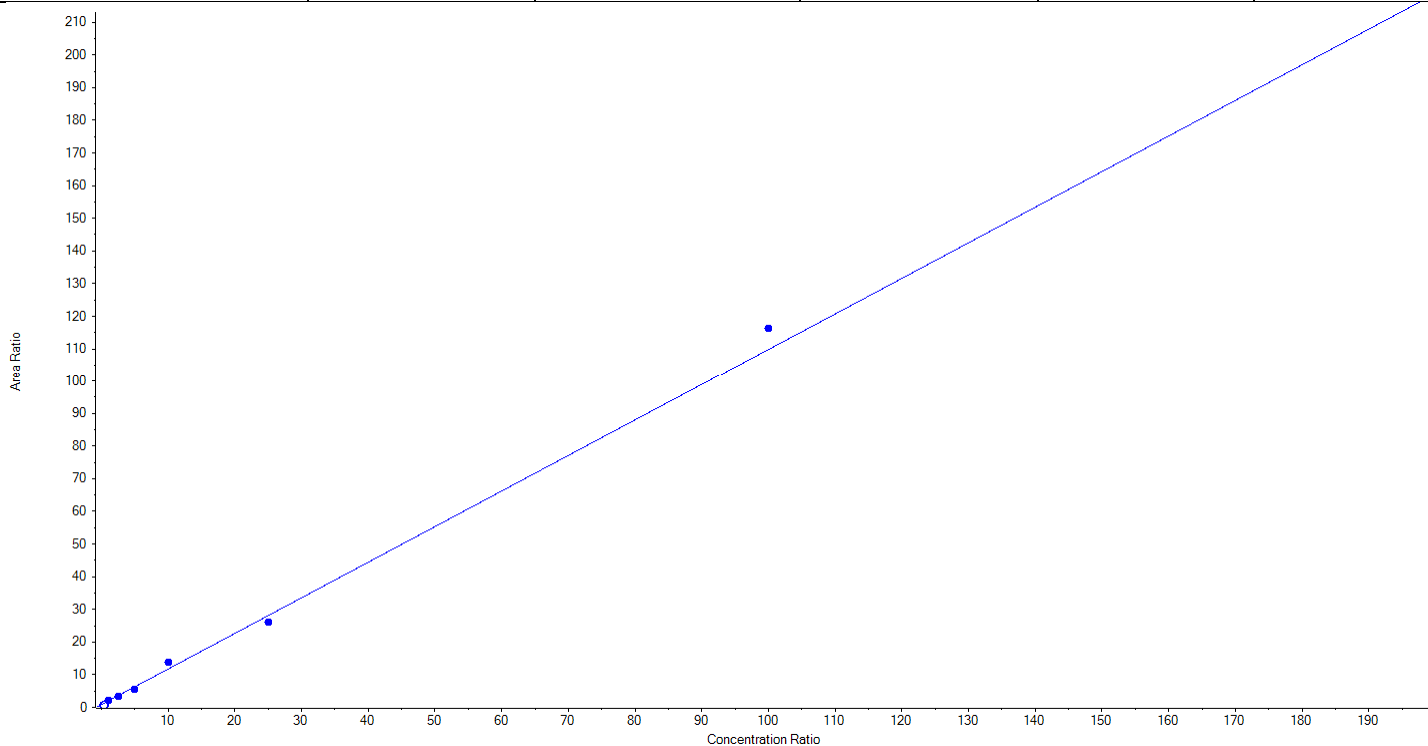


**Analyte Name:** PFBA  
**Internal Standard:** 13C4-PFBA

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 1.08948x + 0.86240$  ( $r = 0.99816$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	105.189946	105.2	N/A	N/A
250.00000	1 of 1	232.211131	92.9	N/A	N/A
500.00000	1 of 1	429.521654	85.9	N/A	N/A
1000.00000	1 of 1	1201.587327	120.2	N/A	N/A
2500.00000	1 of 1	2312.794736	92.5	N/A	N/A
10000.00000	1 of 1	10601.454656	106.0	N/A	N/A
20000.00000	1 of 1	19467.240551	97.3	N/A	N/A





Sample calc 06GW0803 PFBS 35.26 ng/L

(9345.151850\*1)/0.265/1000=35.2647 ng/L

Analyte: PFBS\_1 (298.9 / 80.0)

<b>Data File</b>	18-0207A.wiff	<b>Result Table</b>	18-0207_Base
<b>Acquisition Date</b>	3/28/2018 7:36:08 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	7067	1.44	7624	25.25000	23.133236	92
JU05	Standard	3/28/2018 7:57:43 PM	9164	1.45	5397	50.50000	55.886592	111
JU06	Standard	3/28/2018 8:08:31 PM	17380	1.44	7137	101.00000	87.163084	86
JU07	Standard	3/28/2018 8:19:19 PM	47000	1.44	8127	252.50000	229.381129	91
JU08	Standard	3/28/2018 8:30:06 PM	80600	1.44	6981	505.00000	474.110294	94
JU09	Standard	3/28/2018 8:40:53 PM	171900	1.44	6174	1010.00000	1166.027800	115
JU10	Standard	3/28/2018 8:51:40 PM	407900	1.44	6280	2525.00000	2741.992350	109
JU11	Standard	3/28/2018 9:02:26 PM	1893000	1.44	7335	10100.00000	10943.205444	108
JU12	Standard	3/28/2018 9:13:13 PM	5352000	1.43	11920	20200.00000	19048.350072	94
JP83 IB	Unknown	3/28/2018 9:23:58 PM	20480	1.45	7792	N/A	95.420106	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	158200	1.44	5272	1010.00000	1257.837991	125
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	6302	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	9613	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	581800	1.43	7825	N/A	3141.399150	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	780700	1.45	3542	N/A	9345.151850	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1610000	1.42	3615	N/A	18905.421746	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1707000	1.42	3960	N/A	18287.474855	N/A



## QA/QC Summary Batch 18-0216

Project:	CTO-JM08 – Naval Construction Battalion Center (NCBC)
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	Water, QC
Data Set:	DP-18-0061
Analytical SOP:	5-369
Method Reference:	PFAS to QSM 5.1 Table B-15

### Sample Custody

Collection Date	Receipt Date	Temp (°C)
3/17/2018	3/20/2018	0.1
Corrective Actions	<ul style="list-style-type: none"> <li>Chain of Custody forms were not signed. Client signed and send scanned copy to the laboratory.</li> <li>One sample did not indicate the correct number of samples received. Client corrected sample counts via email.</li> </ul>	
Sample Storage	The water samples were stored refrigerated until extraction.	
Related samples	The field samples associated with these field reagent blanks were extracted and reported with laboratory SDG 18-0207.	

### METHOD SUMMARIES

Sample Preparation	Water samples were spiked with surrogates in the original sample container from the field. The water was extracted using a weak ion exchange solid phase extraction (SPE) cartridge and eluted from the SPE with 0.4% NH <sub>3</sub> in methanol. Extracts were split and concentrated to dryness under nitrogen with a water bath set between 50 °C and 60 °C, reconstituted with 80:20 methanol/water (V/V) and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis.	
Prep comments	None.	
Analysis	PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations.	
Analysis Comments	Samples analyzed on Sciex 5500 LC-MS/MS.  There are no MS/MSD samples associated with this batch.	
Holding Times	Extraction Date(s)	Analysis Date(s)
	3/29/2018	3/29/2018
Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.	
≤ ½ the LOQ	No exceedances noted.	
Samples >10x PB	No comments.	

**QA/QC Summary**  
**Batch 18-0216**

Extracted Internal Standard Analytes	Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.
50-150% of true value	No exceedances noted. No Comments.
Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.
+/- 30% of true value, $R^2 \geq 0.99$	No exceedances noted. No comments.
Independent Calibration Check (ICC)	The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL.
+/- 30% of true value	No exceedances noted. No comments.
Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted. No comments.
Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
$\leq \frac{1}{2}$ the LOQ	No exceedances noted. No comments.

**BATTELLE**

It can be done

**BATTELLE - NORWELL OPERATIONS  
MISCELLANEOUS DOCUMENTATION FORM**

**Project Title:** PFAS Analytical work                      **Data Set Number:** DP-18-0061  
**Project Number:** 100112541                              **Prep Batch Number:** 18-0216  
**Entered By:** Denise Schumitz                              **Entered On:** 04/04/2018  
**Test Code (Matrix Type):** Master\_369(L)

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JU12 is not being used in the calibration curve for d3-MeFOSAA in the SIS method and NMeFOSAA in the BASE method. There is no impact on the data once this point is dropped from the curve.  
DMS 4/4/2018

JU04 is not being used in the calibration curve for PFOS and PFBA in the Base method. There is no impact on the data once this point is dropped from the curve.  
DMS 4/4/2018

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).  
DMS 4/4/2018

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**Task Leader Approval:****Supervisor Approval:****PM Approval:**

Digitally signed by Jonathan

Thorn

Date: 2018.04.06 13:46:10

-04'00'

## IS Area Report

Batch: 18-0216

Result Table: 18-0216

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
1	MeOH	Unknown	3/29/2018 19:35	13C2-PFOA	N/A	N/A	N/A	N/A
19	JU04	Standard	3/29/2018 19:46	13C2-PFOA	31730	16545	49635	Pass
37	JU05	Standard	3/29/2018 19:57	13C2-PFOA	33570	16545	49635	Pass
55	JU06	Standard	3/29/2018 20:08	13C2-PFOA	33090	16545	49635	Pass
73	JU07	Standard	3/29/2018 20:19	13C2-PFOA	27130	16545	49635	Pass
91	JU08	Standard	3/29/2018 20:29	13C2-PFOA	27340	16545	49635	Pass
109	JU09	Standard	3/29/2018 20:40	13C2-PFOA	30040	16545	49635	Pass
127	JU10	Standard	3/29/2018 20:51	13C2-PFOA	24150	16545	49635	Pass
145	JU11	Standard	3/29/2018 21:02	13C2-PFOA	24540	16545	49635	Pass
163	JU12	Standard	3/29/2018 21:12	13C2-PFOA	36740	16545	49635	Pass
181	JP83 IB	Quality Control	3/29/2018 21:23	13C2-PFOA	34260	16545	49635	Pass
199	JU13 ICC	Quality Control	3/29/2018 21:34	13C2-PFOA	32360	16545	49635	Pass
217	JU38 Branch	Quality Control	3/29/2018 21:45	13C2-PFOA	30010	16545	49635	Pass
253	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C2-PFOA	18070	16545	49635	Pass
271	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C2-PFOA	28230	16545	49635	Pass
289	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C2-PFOA	19720	16545	49635	Pass
307	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C2-PFOA	23890	16545	49635	Pass
325	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C2-PFOA	28630	16545	49635	Pass
343	JU09 CCV	Quality Control	3/29/2018 23:00	13C2-PFOA	28060	16545	49635	Pass
20	JU04	Standard	3/29/2018 19:46	13C4-PFOS	11010	5495	16485	Pass
38	JU05	Standard	3/29/2018 19:57	13C4-PFOS	10320	5495	16485	Pass
56	JU06	Standard	3/29/2018 20:08	13C4-PFOS	10990	5495	16485	Pass
74	JU07	Standard	3/29/2018 20:19	13C4-PFOS	8191	5495	16485	Pass
92	JU08	Standard	3/29/2018 20:29	13C4-PFOS	8594	5495	16485	Pass
110	JU09	Standard	3/29/2018 20:40	13C4-PFOS	10450	5495	16485	Pass
128	JU10	Standard	3/29/2018 20:51	13C4-PFOS	10140	5495	16485	Pass
146	JU11	Standard	3/29/2018 21:02	13C4-PFOS	9230	5495	16485	Pass
182	JP83 IB	Quality Control	3/29/2018 21:23	13C4-PFOS	10510	5495	16485	Pass
200	JU13 ICC	Quality Control	3/29/2018 21:34	13C4-PFOS	10710	5495	16485	Pass
218	JU38 Branch	Quality Control	3/29/2018 21:45	13C4-PFOS	10090	5495	16485	Pass
254	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C4-PFOS	5505	5495	16485	Pass
272	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C4-PFOS	9766	5495	16485	Pass
290	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C4-PFOS	6756	5495	16485	Pass
308	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C4-PFOS	8856	5495	16485	Pass
326	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C4-PFOS	8973	5495	16485	Pass
344	JU09 CCV	Quality Control	3/29/2018 23:00	13C4-PFOS	10100	5495	16485	Pass
21	JU04	Standard	3/29/2018 19:46	13C2-PFDA	42510	21000	63000	Pass
39	JU05	Standard	3/29/2018 19:57	13C2-PFDA	43880	21000	63000	Pass

## IS Area Report

Batch: 18-0216

Result Table: 18-0216

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
57	JU06	Standard	3/29/2018 20:08	13C2-PFDA	42000	21000	63000	Pass
75	JU07	Standard	3/29/2018 20:19	13C2-PFDA	35150	21000	63000	Pass
93	JU08	Standard	3/29/2018 20:29	13C2-PFDA	36890	21000	63000	Pass
111	JU09	Standard	3/29/2018 20:40	13C2-PFDA	40570	21000	63000	Pass
129	JU10	Standard	3/29/2018 20:51	13C2-PFDA	37640	21000	63000	Pass
147	JU11	Standard	3/29/2018 21:02	13C2-PFDA	37280	21000	63000	Pass
165	JU12	Standard	3/29/2018 21:12	13C2-PFDA	52430	21000	63000	Pass
183	JP83 IB	Quality Control	3/29/2018 21:23	13C2-PFDA	45600	21000	63000	Pass
201	JU13 ICC	Quality Control	3/29/2018 21:34	13C2-PFDA	40740	21000	63000	Pass
219	JU38 Branch	Quality Control	3/29/2018 21:45	13C2-PFDA	39980	21000	63000	Pass
255	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C2-PFDA	27840	21000	63000	Pass
273	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C2-PFDA	39750	21000	63000	Pass
291	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C2-PFDA	30690	21000	63000	Pass
309	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C2-PFDA	34240	21000	63000	Pass
327	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C2-PFDA	39900	21000	63000	Pass
345	JU09 CCV	Quality Control	3/29/2018 23:00	13C2-PFDA	40700	21000	63000	Pass
35	JU04	Standard	3/29/2018 19:46	13C3-PFBA	27720	11490	34470	Pass
53	JU05	Standard	3/29/2018 19:57	13C3-PFBA	30010	11490	34470	Pass
71	JU06	Standard	3/29/2018 20:08	13C3-PFBA	22980	11490	34470	Pass
89	JU07	Standard	3/29/2018 20:19	13C3-PFBA	24680	11490	34470	Pass
107	JU08	Standard	3/29/2018 20:29	13C3-PFBA	22300	11490	34470	Pass
125	JU09	Standard	3/29/2018 20:40	13C3-PFBA	26380	11490	34470	Pass
143	JU10	Standard	3/29/2018 20:51	13C3-PFBA	24160	11490	34470	Pass
161	JU11	Standard	3/29/2018 21:02	13C3-PFBA	19020	11490	34470	Pass
179	JU12	Standard	3/29/2018 21:12	13C3-PFBA	27900	11490	34470	Pass
197	JP83 IB	Quality Control	3/29/2018 21:23	13C3-PFBA	29780	11490	34470	Pass
215	JU13 ICC	Quality Control	3/29/2018 21:34	13C3-PFBA	24700	11490	34470	Pass
233	JU38 Branch	Quality Control	3/29/2018 21:45	13C3-PFBA	24470	11490	34470	Pass
269	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C3-PFBA	21440	11490	34470	Pass
287	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C3-PFBA	25920	11490	34470	Pass
305	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C3-PFBA	18910	11490	34470	Pass
323	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C3-PFBA	22930	11490	34470	Pass
341	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C3-PFBA	24970	11490	34470	Pass
359	JU09 CCV	Quality Control	3/29/2018 23:00	13C3-PFBA	23160	11490	34470	Pass



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	JP83 IB		
Battelle ID	JP83 IB_03/29/2018		
Sample Type	IB		
Collection Date	NA		
Extraction Date	NA		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	NA		
Sample Size	NA		
Size Unit-Basis	NA		
Units	ng/L	LOD	LOQ
PFBA	0.40	0.50	5.00
PFHxA	0.80	0.50	5.00
PFHpA	0.89	0.50	5.00
PFOA	0.76	0.50	5.00
PFNA	0.72	1.00	5.00
PFDA	0.85	0.50	5.00
PFUnA	0.80	1.00	5.00
PFDoA	0.77	0.50	5.00
PFTTrDA	0.81	0.50	5.00
PFTeDA	0.96	1.00	5.00
NMeFOSAA	1.11	2.50	5.00
NEtFOSAA	1.36	1.00	5.00
PFBS	0.90	0.50	5.00
PFHxS	0.89	0.50	5.00
PFOS	0.88	0.50	5.00

ALL RESULTS < 1/2 LOQ

**Surrogate Recoveries (%)**

13C4-PFBA	97
13C5-PFHxA	94
13C4-PFHpA	100
13C8-PFOA	96
13C9-PFNA	96
13C6-PFDA	107
13C7-PFUnA	98
13C2-PFDoA	96
13C2-PFTeDA	95
d3-MeFOSAA	99
d5-EtFOSAA	110
13C3-PFBS	98
13C3-PFHxS	106
13C8-PFOS	105



Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	Procedural Blank		
Battelle ID	CQ350PB-FS		
Sample Type	PB		
Collection Date	03/29/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	WATER		
Sample Size	0.250		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.35 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDoA	0.18 U	0.50	5.00
PFTeDA	0.16 J	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.17 J	0.50	5.00
PFHxS	0.21 J	0.50	5.00
PFOS	0.33 J	0.50	5.00

ALL RESULTS < 1/3 LOQ

**Surrogate Recoveries (%)**

13C4-PFBA	76
13C5-PFHxA	105
13C4-PFHpA	101
13C8-PFOA	100
13C9-PFNA	105
13C6-PFDA	103
13C7-PFUnA	104
13C2-PFDoA	87
13C2-PFTeDA	57
d3-MeFOSAA	113
d5-EtFOSAA	102
13C3-PFBS	103
13C3-PFHxS	89
13C8-PFOS	111





Project Client: Tetra Tech  
 Project Name: PFAS Analytical work  
 Project Number: 100112541

Client ID	Laboratory Control Sample			
Battelle ID	CQ351LCS-FS			
Sample Type	LCS			
Collection Date	03/29/2018			
Extraction Date	03/29/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	WATER			
Sample Size	0.250			
Size Unit-Basis	L			
Units	ng/L	Target	Recovery	Qual
PFBA	9.64	10.00	96	
PFHxA	9.38	10.10	93	
PFHpA	8.11	10.00	81	
PFOA	9.55	10.00	96	
PFNA	9.65	10.00	97	
PFDA	9.87	10.00	99	
PFUnA	9.50	10.00	95	
PFDoA	10.99	10.00	110	
PFTTrDA	12.64	10.00	126	
PFTeDA	11.29	10.00	113	
NMeFOSAA	8.40	10.00	84	
NEtFOSAA	11.85	10.00	119	
PFBS	11.93	10.10	118	
PFHxS	8.79	10.10	87	
PFOS	8.83	10.00	88	

70-130% limits

**Surrogate Recoveries (%)**

13C4-PFBA	92
13C5-PFHxA	100
13C4-PFHpA	93
13C8-PFOA	100
13C9-PFNA	94
13C6-PFDA	96
13C7-PFUnA	104
13C2-PFDoA	90
13C2-PFTeDA	60
d3-MeFOSAA	98
d5-EtFOSAA	79
13C3-PFBS	80
13C3-PFHxS	99
13C8-PFOS	94

**Analyte:** PFBS\_1 (298.9 / 80.0)

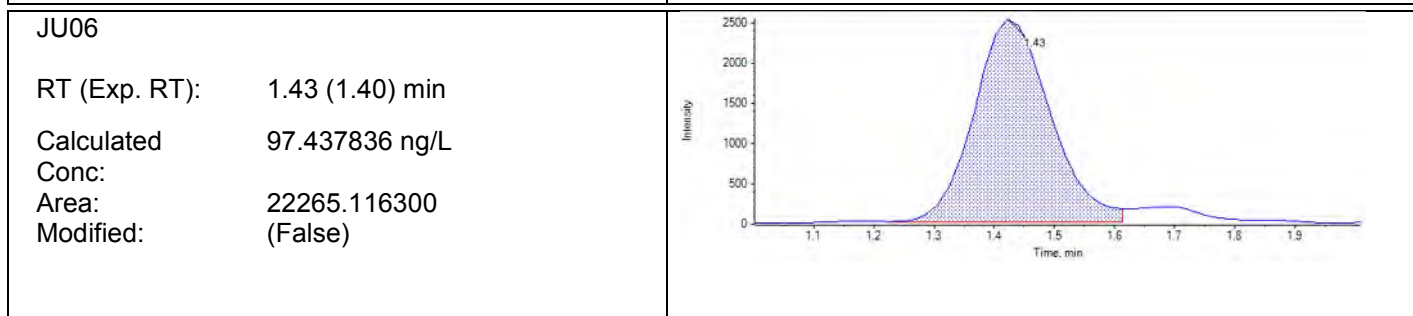
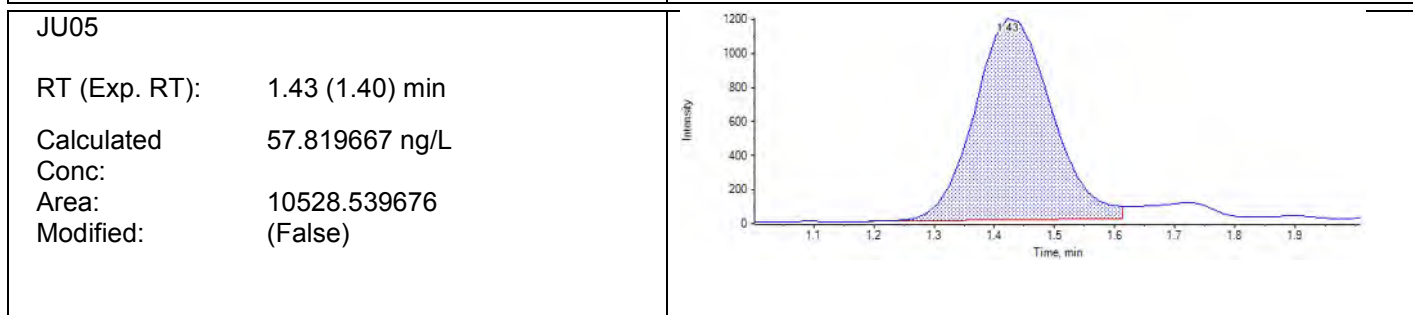
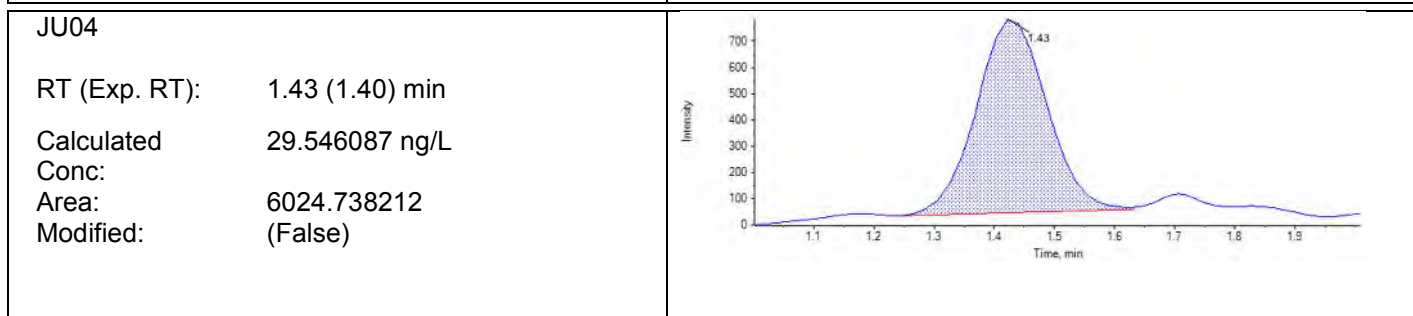
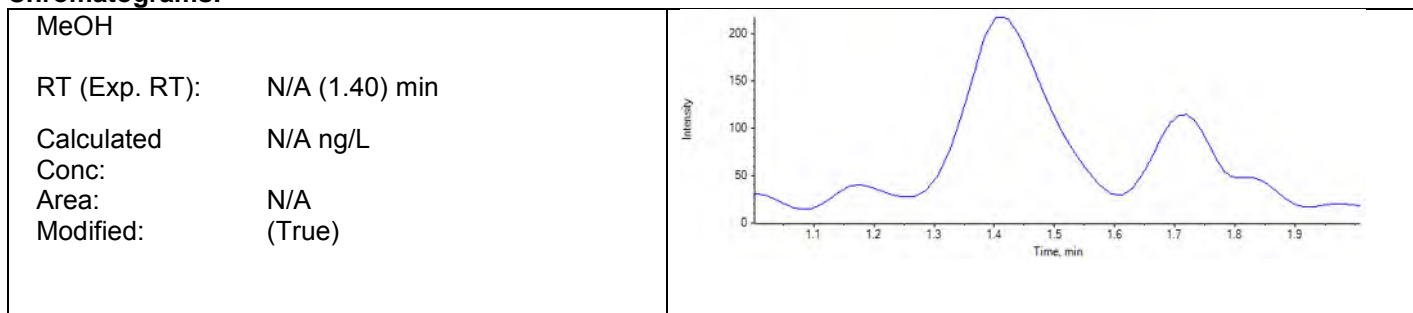
<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	6025	1.43	7904	25.25000	29.546087	117
JU05	Standard	3/29/2018 7:57:30 PM	10529	1.43	7045	50.50000	57.819667	114
JU06	Standard	3/29/2018 8:08:16 PM	22265	1.43	8833	101.00000	97.437836	96
JU07	Standard	3/29/2018 8:19:03 PM	42238	1.43	6412	252.50000	254.440891	101
JU08	Standard	3/29/2018 8:29:49 PM	78021	1.43	6875	505.00000	438.237188	87
JU09	Standard	3/29/2018 8:40:36 PM	203152	1.43	8218	1010.00000	954.534400	95
JU10	Standard	3/29/2018 8:51:22 PM	454931	1.43	8008	2525.00000	2193.471695	87
JU11	Standard	3/29/2018 9:02:09 PM	1934440	1.43	7264	10100.00000	10280.713973	102
JU12	Standard	3/29/2018 9:12:55 PM	5692516	1.42	10740	20200.00000	20463.048262	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	19188	1.44	8236	N/A	90.064380	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	200186	1.42	7922	1010.00000	975.646795	97
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	4144	1.44	6641	N/A	24.208354	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	4880	1.44	4528	N/A	41.732724	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	480519	1.43	6222	N/A	2981.803725	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3401	1.44	5265	N/A	25.059831	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	946	1.45	5442	N/A	6.834147	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	1080	1.45	7973	N/A	5.348253	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	202415	1.42	7535	1010.00000	1037.184196	103

**Chromatograms:**



**Analyte:** PFBS\_2 (298.9 / 99.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2139	1.44	7904	25.25000	29.342453	116
JU05	Standard	3/29/2018 7:57:30 PM	3843	1.44	7045	50.50000	62.969644	125
JU06	Standard	3/29/2018 8:08:16 PM	6915	1.42	8833	101.00000	91.992005	91
JU07	Standard	3/29/2018 8:19:03 PM	13136	1.43	6412	252.50000	246.764500	98
JU08	Standard	3/29/2018 8:29:49 PM	25769	1.43	6875	505.00000	454.561605	90
JU09	Standard	3/29/2018 8:40:36 PM	61521	1.42	8218	1010.00000	911.657403	90
JU10	Standard	3/29/2018 8:51:22 PM	143721	1.43	8008	2525.00000	2190.868679	87
JU11	Standard	3/29/2018 9:02:09 PM	610663	1.43	7264	10100.00000	10274.963832	102
JU12	Standard	3/29/2018 9:12:55 PM	1801465	1.42	10740	20200.00000	20506.129879	102
JP83 IB	Unknown	3/29/2018 9:23:42 PM	6642	1.44	8236	N/A	94.877131	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	62891	1.42	7922	1010.00000	966.910914	96
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	6641	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1384	1.45	4528	N/A	33.626595	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	148316	1.42	6222	N/A	2911.084354	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1224	1.44	5265	N/A	24.677200	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	5442	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	7973	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	61579	1.42	7535	1010.00000	995.495560	99

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows a baseline with several small peaks. A significant peak is observed at 1.42 minutes, reaching an intensity of approximately 150. The x-axis represents time in minutes from 1.1 to 1.9, and the y-axis represents intensity from 0 to 150.</p>
<p>JU04</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 29.342453 ng/L</p> <p>Area: 2138.678469</p> <p>Modified: (True)</p>	<p>The chromatogram displays a single prominent peak at 1.44 minutes. The peak is shaded in blue and reaches an intensity of approximately 300. The baseline is relatively flat. The x-axis ranges from 1.1 to 1.9 minutes, and the y-axis ranges from 0 to 300 intensity units.</p>
<p>JU05</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 62.969644 ng/L</p> <p>Area: 3843.418254</p> <p>Modified: (False)</p>	<p>The chromatogram shows a peak at 1.44 minutes, shaded in blue, with an intensity of approximately 400. The baseline has some minor fluctuations. The x-axis is labeled from 1.1 to 1.9 minutes, and the y-axis is labeled from 0 to 400 intensity units.</p>
<p>JU06</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 91.992005 ng/L</p> <p>Area: 6915.463749</p> <p>Modified: (False)</p>	<p>The chromatogram features a peak at 1.42 minutes, shaded in blue, with an intensity of approximately 700. The baseline is stable. The x-axis ranges from 1.1 to 1.9 minutes, and the y-axis ranges from 0 to 700 intensity units.</p>

**Analyte:** PFHxA\_1 (313.0 / 269.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	7895	1.71	27450	25.25000	32.108208	127
JU05	Standard	3/29/2018 7:57:30 PM	13526	1.70	26160	50.50000	56.216074	111
JU06	Standard	3/29/2018 8:08:16 PM	25113	1.70	26630	101.00000	100.928808	100
JU07	Standard	3/29/2018 8:19:03 PM	44538	1.70	21140	252.50000	223.227908	88
JU08	Standard	3/29/2018 8:29:49 PM	92249	1.71	21630	505.00000	449.860662	89
JU09	Standard	3/29/2018 8:40:36 PM	234947	1.70	27690	1010.00000	893.148377	88
JU10	Standard	3/29/2018 8:51:22 PM	537670	1.70	23960	2525.00000	2358.310431	93
JU11	Standard	3/29/2018 9:02:09 PM	2278502	1.70	23460	10100.00000	10203.682302	101
JU12	Standard	3/29/2018 9:12:55 PM	6522596	1.70	33500	20200.00000	20451.767229	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	20779	1.72	28010	N/A	79.807853	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	224549	1.70	26220	1010.00000	901.317127	89
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	23770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	3203	1.72	16390	N/A	22.424285	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	546764	1.70	24510	N/A	2344.939456	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	4030	1.72	17230	N/A	26.462506	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	19720	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	22230	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	212499	1.70	24340	1010.00000	918.940241	91

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 32.108208 ng/L</p> <p>Area: 7895.104475</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 56.216074 ng/L</p> <p>Area: 13526.462512</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 100.928808 ng/L</p> <p>Area: 25113.310103</p> <p>Modified: (True)</p>	



**Analyte:** PFHxA\_2 (313.0 / 119.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	496	1.72	27450	25.25000	30.730900	122
JU05	Standard	3/29/2018 7:57:30 PM	768	1.70	26160	50.50000	47.189149	93
JU06	Standard	3/29/2018 8:08:16 PM	2082	1.70	26630	101.00000	118.260833	117
JU07	Standard	3/29/2018 8:19:03 PM	3011	1.70	21140	252.50000	211.893503	84
JU08	Standard	3/29/2018 8:29:49 PM	7894	1.70	21630	505.00000	535.846621	106
JU09	Standard	3/29/2018 8:40:36 PM	16707	1.70	27690	1010.00000	883.060455	87
JU10	Standard	3/29/2018 8:51:22 PM	36180	1.70	23960	2525.00000	2202.720742	87
JU11	Standard	3/29/2018 9:02:09 PM	165529	1.70	23460	10100.00000	10279.586155	102
JU12	Standard	3/29/2018 9:12:55 PM	470601	1.70	33500	20200.00000	20459.961643	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	1383	1.71	28010	N/A	76.303625	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	14404	1.70	26220	1010.00000	804.298604	80
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	23770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	16390	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	39138	1.70	24510	N/A	2329.662383	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	508	1.71	17230	N/A	47.311357	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	19720	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	22230	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	14059	1.69	24340	1010.00000	845.603299	84

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 1.72 (1.60) min</p> <p>Calculated Conc: 30.730900 ng/L</p> <p>Area: 495.894608</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 47.189149 ng/L</p> <p>Area: 768.141758</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 118.260833 ng/L</p> <p>Area: 2082.246440</p> <p>Modified: (True)</p>	

**Analyte:** PFHpA\_1 (363.0 / 319.0)

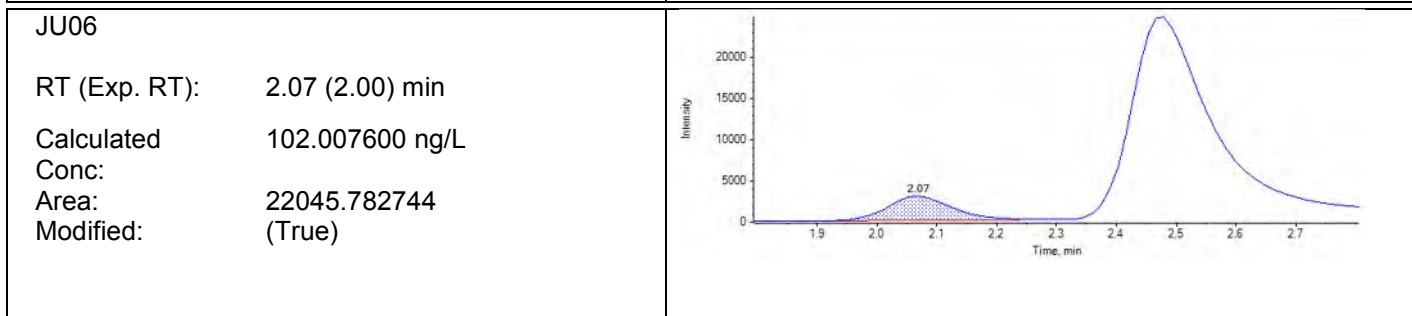
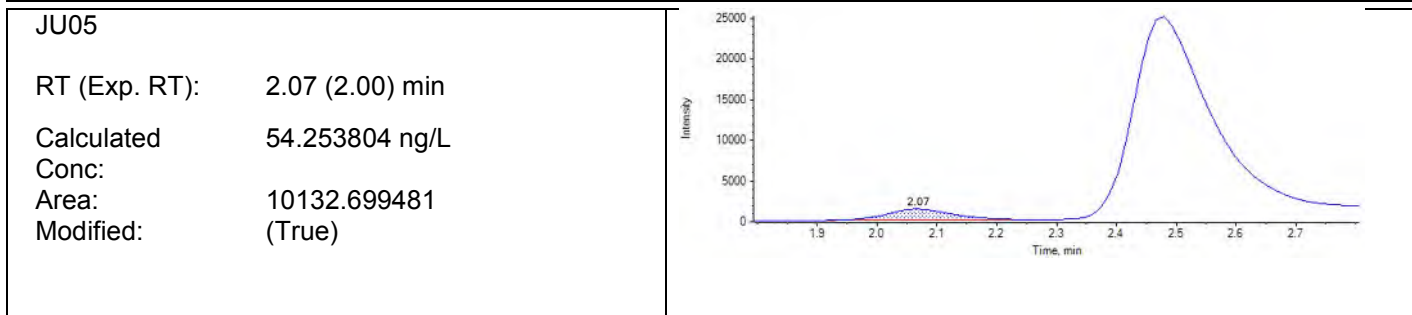
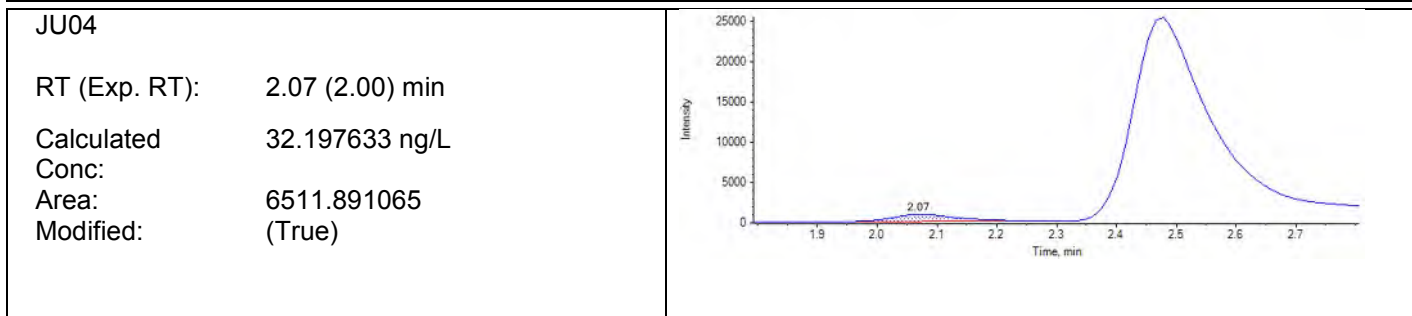
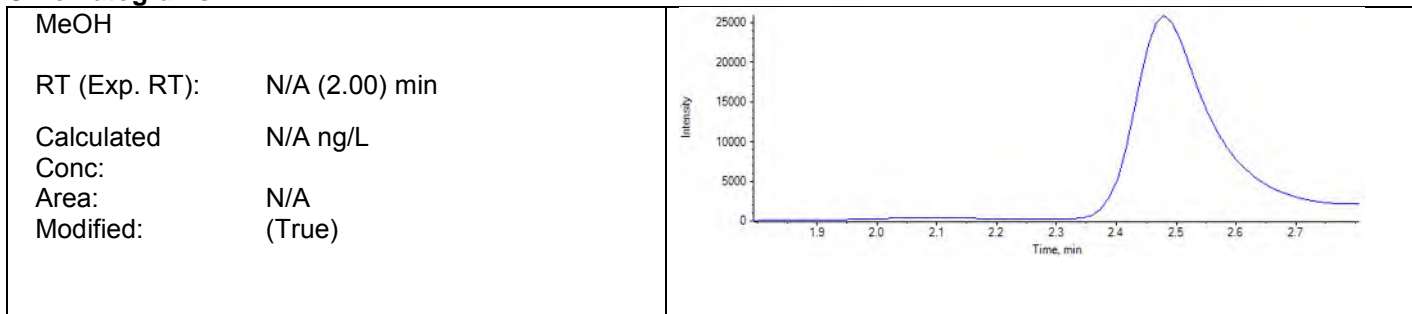
<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	6512	2.07	34260	25.00000	32.197633	129
JU05	Standard	3/29/2018 7:57:30 PM	10133	2.07	29930	50.00000	54.253804	109
JU06	Standard	3/29/2018 8:08:16 PM	22046	2.07	33410	100.00000	102.007600	102
JU07	Standard	3/29/2018 8:19:03 PM	40054	2.07	27420	250.00000	220.992703	88
JU08	Standard	3/29/2018 8:29:49 PM	78974	2.07	28990	500.00000	408.761957	82
JU09	Standard	3/29/2018 8:40:36 PM	201201	2.06	30930	1000.00000	970.744144	97
JU10	Standard	3/29/2018 8:51:22 PM	424461	2.07	27530	2500.00000	2295.050119	92
JU11	Standard	3/29/2018 9:02:09 PM	1675847	2.07	24930	10000.00000	9992.681399	100
JU12	Standard	3/29/2018 9:12:55 PM	4671074	2.07	34120	20000.00000	20348.310641	102
JP83 IB	Unknown	3/29/2018 9:23:42 PM	19285	2.07	33660	N/A	89.079677	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	182897	2.06	31220	1000.00000	874.432498	87
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	30930	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	18340	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	389608	2.07	28610	N/A	2027.533978	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	21790	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	22760	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	27670	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	190766	2.06	30270	1000.00000	940.493946	94

**Chromatograms:**



**Analyte:** PFHpA\_2 (363.0 / 169.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	280	2.08	34260	25.00000	105.182479	421
JU05	Standard	3/29/2018 7:57:30 PM	184	2.09	29930	50.00000	91.139553	182
JU06	Standard	3/29/2018 8:08:16 PM	348	2.07	33410	100.00000	120.742095	121
JU07	Standard	3/29/2018 8:19:03 PM	693	2.06	27420	250.00000	223.686864	89
JU08	Standard	3/29/2018 8:29:49 PM	1711	2.08	28990	500.00000	457.567789	92
JU09	Standard	3/29/2018 8:40:36 PM	3940	2.07	30930	1000.00000	931.504230	93
JU10	Standard	3/29/2018 8:51:22 PM	9957	2.06	27530	2500.00000	2555.199660	102
JU11	Standard	3/29/2018 9:02:09 PM	37674	2.07	24930	10000.00000	10520.939088	105
JU12	Standard	3/29/2018 9:12:55 PM	95960	2.06	34120	20000.00000	19540.360274	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	391	2.05	33660	N/A	129.044627	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	3336	2.07	31220	1000.00000	788.959138	79
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	30930	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	18340	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	7786	2.06	28610	N/A	1934.579838	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	21790	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	22760	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	27670	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	4899	2.05	30270	1000.00000	1170.337127	117

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 105.182479 ng/L</p> <p>Area: 279.763256</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 91.139553 ng/L</p> <p>Area: 183.794919</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 120.742095 ng/L</p> <p>Area: 347.846849</p> <p>Modified: (True)</p>	

**Analyte:** PFHxS\_1 (399.0 / 80.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	10289	2.09	8341	25.25000	26.892868	107
JU05	Standard	3/29/2018 7:57:30 PM	16849	2.09	8473	50.50000	47.936865	95
JU06	Standard	3/29/2018 8:08:16 PM	30864	2.09	7439	101.00000	108.161715	107
JU07	Standard	3/29/2018 8:19:03 PM	55147	2.09	5304	252.50000	282.324036	112
JU08	Standard	3/29/2018 8:29:49 PM	103545	2.09	6335	505.00000	448.094441	89
JU09	Standard	3/29/2018 8:40:36 PM	253074	2.09	7359	1010.00000	951.068384	94
JU10	Standard	3/29/2018 8:51:22 PM	556477	2.09	6704	2525.00000	2306.288510	91
JU11	Standard	3/29/2018 9:02:09 PM	2082967	2.09	5324	10100.00000	10898.757134	108
JU12	Standard	3/29/2018 9:12:55 PM	5587757	2.08	7904	20200.00000	19699.726048	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	27242	2.09	7891	N/A	88.745330	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	262665	2.08	7291	1010.00000	996.689472	99
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	1004751	2.08	7052	N/A	3964.190498	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	7505	2.09	3479	N/A	52.633963	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	538633	2.08	6813	N/A	2196.291678	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3490	2.10	4848	N/A	12.569214	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	1846	2.09	4292	N/A	4.496053	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	949	2.08	6607	N/A	< 0	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	250240	2.08	8306	1010.00000	832.278274	82

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 26.892868 ng/L</p> <p>Area: 10289.376494</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 47.936865 ng/L</p> <p>Area: 16848.848272</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 108.161715 ng/L</p> <p>Area: 30863.790160</p> <p>Modified: (False)</p>	

**Analyte:** PFHxS\_2 (399.0 / 99.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2431	2.09	8341	25.25000	22.397565	89
JU05	Standard	3/29/2018 7:57:30 PM	5645	2.09	8473	50.50000	58.270442	115
JU06	Standard	3/29/2018 8:08:16 PM	8343	2.08	7439	101.00000	101.841220	101
JU07	Standard	3/29/2018 8:19:03 PM	15216	2.09	5304	252.50000	269.047901	107
JU08	Standard	3/29/2018 8:29:49 PM	31216	2.09	6335	505.00000	466.069235	92
JU09	Standard	3/29/2018 8:40:36 PM	76869	2.09	7359	1010.00000	994.137369	98
JU10	Standard	3/29/2018 8:51:22 PM	165392	2.09	6704	2525.00000	2355.552213	93
JU11	Standard	3/29/2018 9:02:09 PM	601632	2.09	5324	10100.00000	10809.826960	107
JU12	Standard	3/29/2018 9:12:55 PM	1626709	2.08	7904	20200.00000	19692.107095	97
JP83 IB	Unknown	3/29/2018 9:23:42 PM	7644	2.10	7891	N/A	87.226019	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	75671	2.08	7291	1010.00000	987.748438	98
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	304155	2.08	7052	N/A	4122.390745	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	2304	2.09	3479	N/A	57.885095	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	154945	2.08	6813	N/A	2171.066329	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1453	2.09	4848	N/A	23.194400	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	4292	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	6607	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	73068	2.08	8306	1010.00000	836.382302	83

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 22.397565 ng/L</p> <p>Area: 2430.759420</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 58.270442 ng/L</p> <p>Area: 5645.178217</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 101.841220 ng/L</p> <p>Area: 8342.687371</p> <p>Modified: (False)</p>	

**Analyte:** PFOA\_1 (413.0 / 369.0)

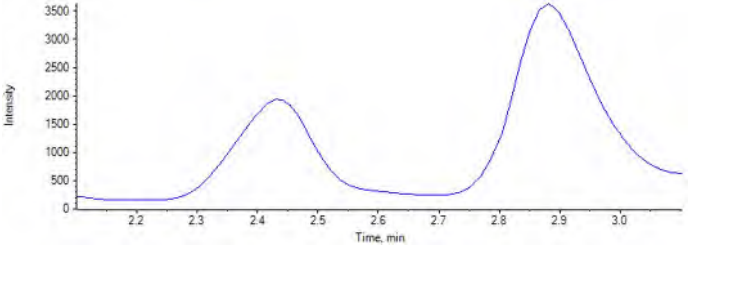
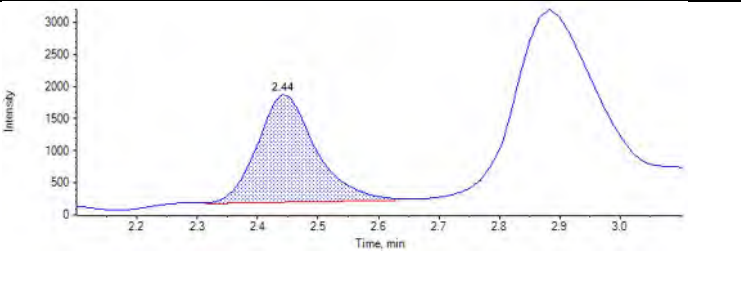
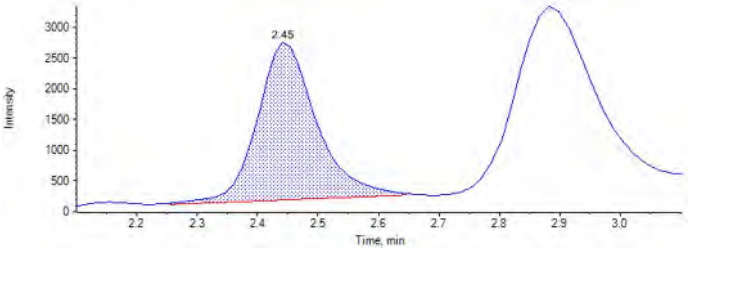
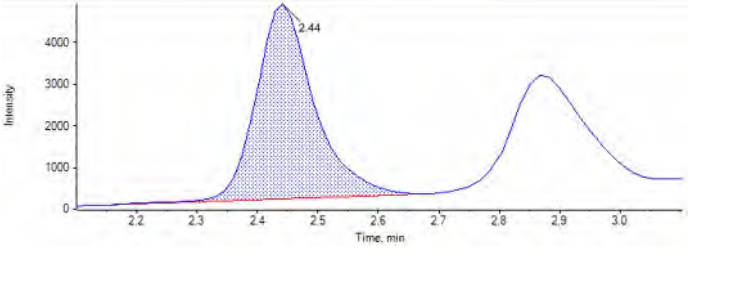
<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	11269	2.44	34260	25.00000	30.124194	121
JU05	Standard	3/29/2018 7:57:30 PM	17441	2.45	29930	50.00000	59.354635	119
JU06	Standard	3/29/2018 8:08:16 PM	31361	2.44	33410	100.00000	100.374593	100
JU07	Standard	3/29/2018 8:19:03 PM	52826	2.45	27420	250.00000	214.159880	86
JU08	Standard	3/29/2018 8:29:49 PM	106316	2.45	28990	500.00000	414.748101	83
JU09	Standard	3/29/2018 8:40:36 PM	255833	2.44	30930	1000.00000	945.329057	95
JU10	Standard	3/29/2018 8:51:22 PM	564410	2.44	27530	2500.00000	2354.234208	94
JU11	Standard	3/29/2018 9:02:09 PM	2233564	2.44	24930	10000.00000	10314.027698	103
JU12	Standard	3/29/2018 9:12:55 PM	5922851	2.44	34120	20000.00000	19992.647633	100
JP83 IB	Unknown	3/29/2018 9:23:42 PM	24517	2.45	33660	N/A	76.133459	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	254832	2.43	31220	1000.00000	932.574401	93
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	2298350	2.40	30930	N/A	8553.523431	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	15121	2.44	18340	N/A	87.242762	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	594610	2.44	28610	N/A	2386.681902	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	10336	2.44	21790	N/A	46.882227	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	6836	2.44	22760	N/A	26.831506	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	6841	2.43	27670	N/A	20.708012	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	254724	2.43	30270	1000.00000	961.795217	96

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 30.124194 ng/L</p> <p>Area: 11268.810492</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 59.354635 ng/L</p> <p>Area: 17440.536342</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 100.374593 ng/L</p> <p>Area: 31360.938790</p> <p>Modified: (False)</p>	

**Analyte:** PFOA\_2 (413.0 / 169.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	454	2.42	34260	25.00000	45.005182	180
JU05	Standard	3/29/2018 7:57:30 PM	1341	2.44	29930	50.00000	97.833645	196
JU06	Standard	3/29/2018 8:08:16 PM	2047	2.45	33410	100.00000	125.427924	125
JU07	Standard	3/29/2018 8:19:03 PM	3697	2.44	27420	250.00000	248.569421	99
JU08	Standard	3/29/2018 8:29:49 PM	6498	2.45	28990	500.00000	398.190136	80
JU09	Standard	3/29/2018 8:40:36 PM	17809	2.44	30930	1000.00000	987.151776	99
JU10	Standard	3/29/2018 8:51:22 PM	39164	2.44	27530	2500.00000	2404.994229	96
JU11	Standard	3/29/2018 9:02:09 PM	147541	2.44	24930	10000.00000	9932.600203	99
JU12	Standard	3/29/2018 9:12:55 PM	412193	2.44	34120	20000.00000	20253.066310	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	1593	2.44	33660	N/A	102.060306	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	16067	2.44	31220	1000.00000	884.563132	88
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	213474	2.39	30930	N/A	11580.232078	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	978	2.41	18340	N/A	112.113221	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	40617	2.43	28610	N/A	2400.104014	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	712	2.43	21790	N/A	77.530960	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	534	2.42	22760	N/A	62.134170	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	825	2.37	27670	N/A	72.770710	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	17696	2.43	30270	1000.00000	1001.828070	100

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.42 (2.40) min</p> <p>Calculated Conc: 45.005182 ng/L</p> <p>Area: 453.524244</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 97.833645 ng/L</p> <p>Area: 1340.603758</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 125.427924 ng/L</p> <p>Area: 2046.843247</p> <p>Modified: (True)</p>	



**Analyte:** PFNA\_1 (463.0 / 419.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	13404	2.82	40780	25.00000	31.135941	125
JU05	Standard	3/29/2018 7:57:30 PM	20065	2.82	39140	50.00000	51.831255	104
JU06	Standard	3/29/2018 8:08:16 PM	36123	2.82	40120	100.00000	95.441458	95
JU07	Standard	3/29/2018 8:19:03 PM	71266	2.82	31720	250.00000	246.912526	99
JU08	Standard	3/29/2018 8:29:49 PM	139918	2.83	33490	500.00000	464.101080	93
JU09	Standard	3/29/2018 8:40:36 PM	317486	2.82	41520	1000.00000	854.249474	85
JU10	Standard	3/29/2018 8:51:22 PM	684886	2.82	32630	2500.00000	2355.097628	94
JU11	Standard	3/29/2018 9:02:09 PM	2649099	2.82	27830	10000.00000	10701.407079	107
JU12	Standard	3/29/2018 9:12:55 PM	6858378	2.82	39300	20000.00000	19624.823558	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	27980	2.82	40380	N/A	72.109345	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	326340	2.81	35560	1000.00000	1026.499310	103
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	35160	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	9869	2.80	23280	N/A	41.839760	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	696895	2.82	32430	N/A	2411.786695	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	6778	2.81	27270	N/A	22.123256	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2541	2.81	26530	N/A	4.933309	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	2532	2.82	35660	N/A	2.148481	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	337389	2.81	37150	1000.00000	1015.716115	102

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 31.135941 ng/L</p> <p>Area: 13404.290488</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 51.831255 ng/L</p> <p>Area: 20065.355830</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 95.441458 ng/L</p> <p>Area: 36123.402605</p> <p>Modified: (False)</p>	

**Analyte:** PFNA\_2 (463.0 / 219.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	3037	2.83	40780	25.00000	30.853910	123
JU05	Standard	3/29/2018 7:57:30 PM	5304	2.83	39140	50.00000	54.312522	109
JU06	Standard	3/29/2018 8:08:16 PM	9752	2.82	40120	100.00000	95.663390	96
JU07	Standard	3/29/2018 8:19:03 PM	19063	2.83	31720	250.00000	233.271399	93
JU08	Standard	3/29/2018 8:29:49 PM	39766	2.82	33490	500.00000	458.661296	92
JU09	Standard	3/29/2018 8:40:36 PM	93522	2.82	41520	1000.00000	868.059048	87
JU10	Standard	3/29/2018 8:51:22 PM	203616	2.82	32630	2500.00000	2400.942236	96
JU11	Standard	3/29/2018 9:02:09 PM	767174	2.82	27830	10000.00000	10599.066368	106
JU12	Standard	3/29/2018 9:12:55 PM	2012109	2.82	39300	20000.00000	19684.169831	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	10662	2.82	40380	N/A	103.724868	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	92511	2.82	35560	1000.00000	1002.330252	100
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	35160	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1105	2.82	23280	N/A	20.459240	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	213226	2.81	32430	N/A	2530.146254	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1914	2.82	27270	N/A	29.208413	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	26530	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	35660	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	98637	2.81	37150	1000.00000	1022.864687	102

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 1000) and time in minutes on the x-axis (2.6 to 3.5). A single peak is visible at 2.83 minutes with an intensity of approximately 600.</p>
<p>JU04</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 30.853910 ng/L</p> <p>Area: 3037.415374</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 500) and time in minutes on the x-axis (2.6 to 3.5). A peak is visible at 2.83 minutes with an intensity of approximately 500.</p>
<p>JU05</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 54.312522 ng/L</p> <p>Area: 5303.505789</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 800) and time in minutes on the x-axis (2.6 to 3.5). A peak is visible at 2.83 minutes with an intensity of approximately 800.</p>
<p>JU06</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 95.663390 ng/L</p> <p>Area: 9752.282453</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 1200) and time in minutes on the x-axis (2.6 to 3.5). A peak is visible at 2.82 minutes with an intensity of approximately 1200.</p>

**Analyte:** PFOS\_1 (499.0 / 80.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	17069	2.79	10230	25.00000	42.767875	171
JU05	Standard	3/29/2018 7:57:30 PM	27709	2.81	10940	50.00000	61.259255	123
JU06	Standard	3/29/2018 8:08:16 PM	47453	2.82	10200	100.00000	106.671885	107
JU07	Standard	3/29/2018 8:19:03 PM	88716	2.82	6608	250.00000	294.562971	118
JU08	Standard	3/29/2018 8:29:49 PM	160254	2.82	9368	500.00000	373.378352	75
JU09	Standard	3/29/2018 8:40:36 PM	390198	2.82	8784	1000.00000	958.421303	96
JU10	Standard	3/29/2018 8:51:22 PM	876163	2.82	9198	2500.00000	2047.108968	82
JU11	Standard	3/29/2018 9:02:09 PM	3228594	2.81	7240	10000.00000	9557.854024	96
JU12	Standard	3/29/2018 9:12:55 PM	8322430	2.81	8490	20000.00000	21000.743243	105
JP83 IB	Unknown	3/29/2018 9:23:42 PM	38147	2.82	10080	N/A	88.109104	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	388817	2.81	9028	1000.00000	929.355680	93
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	6222940	2.72	8506	N/A	15675.341046	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	19536	2.76	5541	N/A	82.538068	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	859400	2.81	8368	N/A	2206.585783	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	7398	2.79	7093	N/A	29.362982	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	3567	2.78	6436	N/A	18.897348	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	2714	2.81	9315	N/A	13.266366	N/A

Not being used in this calibration  
 DMS 4/6/18

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	384072	2.80	9371	1000.00000	884.740916	88

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.79 (2.80) min</p> <p>Calculated Conc: 42.767875 ng/L</p> <p>Area: 17068.626808</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 61.259255 ng/L</p> <p>Area: 27709.012311</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 106.671885 ng/L</p> <p>Area: 47452.705481</p> <p>Modified: (False)</p>	



**Analyte:** PFOS\_2 (499.0 / 99.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2910	2.83	10230	25.00000	63.275250	253
JU05	Standard	3/29/2018 7:57:30 PM	5074	2.82	10940	50.00000	84.436461	169
JU06	Standard	3/29/2018 8:08:16 PM	7588	2.83	10200	100.00000	117.551175	118
JU07	Standard	3/29/2018 8:19:03 PM	14895	2.82	6608	250.00000	295.943528	118
JU08	Standard	3/29/2018 8:29:49 PM	32306	2.82	9368	500.00000	437.015734	87
JU09	Standard	3/29/2018 8:40:36 PM	69047	2.82	8784	1000.00000	958.233277	96
JU10	Standard	3/29/2018 8:51:22 PM	154637	2.82	9198	2500.00000	2015.638374	81
JU11	Standard	3/29/2018 9:02:09 PM	581538	2.82	7240	10000.00000	9518.262901	95
JU12	Standard	3/29/2018 9:12:55 PM	1507723	2.82	8490	20000.00000	21007.355010	105
JP83 IB	Unknown	3/29/2018 9:23:42 PM	7259	2.82	10080	N/A	114.767910	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	73269	2.81	9028	1000.00000	988.307155	99
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	788716	2.75	8506	N/A	10982.939075	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	3003	2.79	5541	N/A	93.679267	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	160894	2.81	8368	N/A	2300.975770	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1166	2.80	7093	N/A	49.081805	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	6436	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	9315	N/A	N/A	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	70741	2.81	9371	1000.00000	921.335822	92

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 63.275250 ng/L</p> <p>Area: 2910.397605</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 84.436461 ng/L</p> <p>Area: 5073.962457</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 117.551175 ng/L</p> <p>Area: 7588.339269</p> <p>Modified: (False)</p>	

**Analyte:** PFDA\_1 (513.0 / 469.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	11022	3.18	43400	25.00000	28.040609	112
JU05	Standard	3/29/2018 7:57:30 PM	22080	3.17	41780	50.00000	56.820399	114
JU06	Standard	3/29/2018 8:08:16 PM	40150	3.17	42500	100.00000	100.432158	100
JU07	Standard	3/29/2018 8:19:03 PM	73789	3.17	32880	250.00000	236.632413	95
JU08	Standard	3/29/2018 8:29:49 PM	150245	3.17	35890	500.00000	440.166212	88
JU09	Standard	3/29/2018 8:40:36 PM	354098	3.17	39130	1000.00000	949.920008	95
JU10	Standard	3/29/2018 8:51:22 PM	803678	3.17	37180	2500.00000	2267.160024	91
JU11	Standard	3/29/2018 9:02:09 PM	3075773	3.17	30040	10000.00000	10734.171405	107
JU12	Standard	3/29/2018 9:12:55 PM	7708727	3.17	41200	20000.00000	19611.656773	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	36346	3.17	45770	N/A	84.662299	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	357714	3.16	44230	1000.00000	849.143649	85
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	41500	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	5219	3.17	26830	N/A	21.809575	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	845406	3.16	35950	N/A	2466.252781	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	5616	3.16	26970	N/A	23.246970	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	30370	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	37520	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	358243	3.16	42290	1000.00000	889.404343	89

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 28.040609 ng/L</p> <p>Area: 11021.665567</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 56.820399 ng/L</p> <p>Area: 22080.094287</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 100.432158 ng/L</p> <p>Area: 40150.002990</p> <p>Modified: (False)</p>	

**Analyte:** PFDA\_2 (513.0 / 219.0)

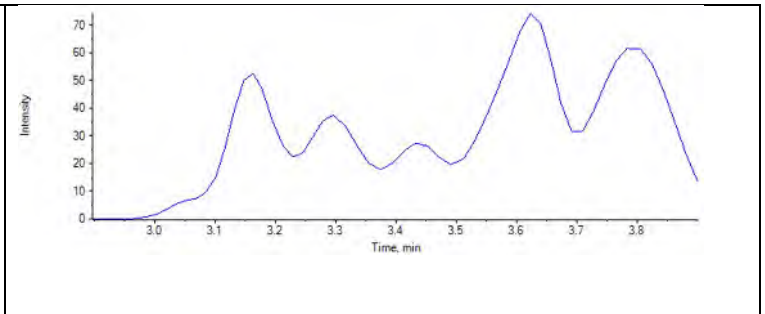
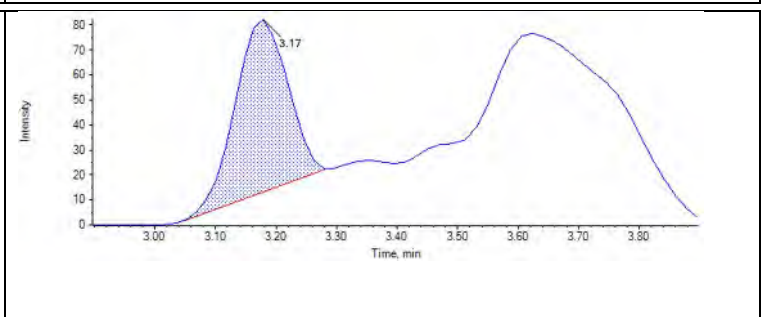
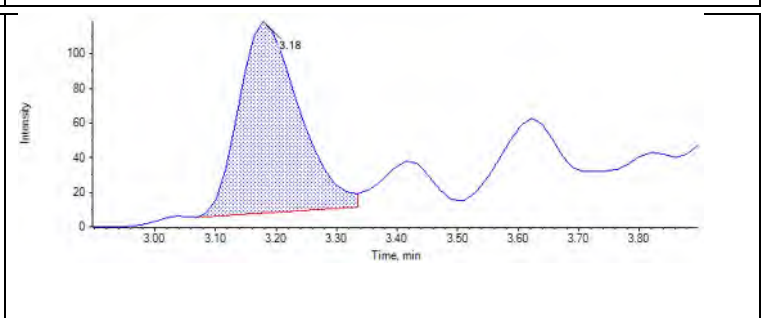
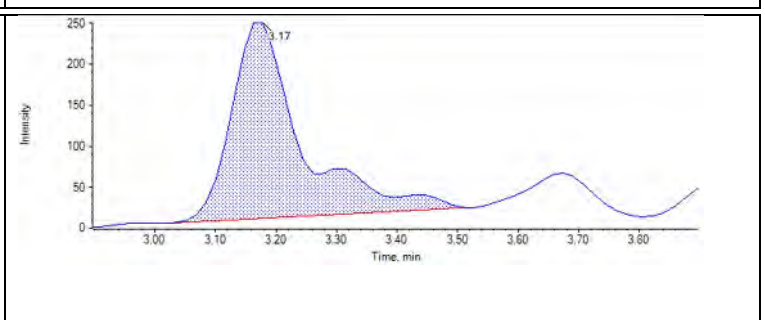
<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	417	3.17	43400	25.00000	29.579582	118
JU05	Standard	3/29/2018 7:57:30 PM	767	3.18	41780	50.00000	51.481084	103
JU06	Standard	3/29/2018 8:08:16 PM	1933	3.17	42500	100.00000	119.405501	119
JU07	Standard	3/29/2018 8:19:03 PM	2961	3.18	32880	250.00000	230.976769	92
JU08	Standard	3/29/2018 8:29:49 PM	5556	3.17	35890	500.00000	393.053118	79
JU09	Standard	3/29/2018 8:40:36 PM	13892	3.17	39130	1000.00000	894.428545	89
JU10	Standard	3/29/2018 8:51:22 PM	33859	3.17	37180	2500.00000	2285.723319	91
JU11	Standard	3/29/2018 9:02:09 PM	132713	3.17	30040	10000.00000	11067.824617	111
JU12	Standard	3/29/2018 9:12:55 PM	318375	3.17	41200	20000.00000	19352.527464	97
JP83 IB	Unknown	3/29/2018 9:23:42 PM	1755	3.17	45770	N/A	101.555028	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	14031	3.16	44230	1000.00000	799.829109	80
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	41500	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	520	3.17	26830	N/A	54.036498	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	33763	3.17	35950	N/A	2356.999588	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	26970	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	30370	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	37520	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	14521	3.16	42290	1000.00000	865.341070	87

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 29.579582 ng/L</p> <p>Area: 417.073823</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 51.481084 ng/L</p> <p>Area: 766.903571</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 119.405501 ng/L</p> <p>Area: 1933.328324</p> <p>Modified: (False)</p>	

**Analyte:** PFUnA\_1 (563.0 / 519.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

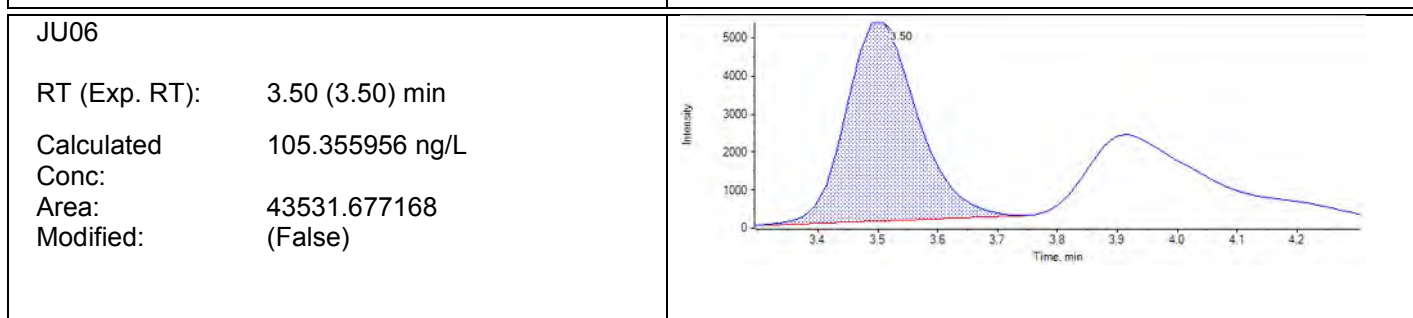
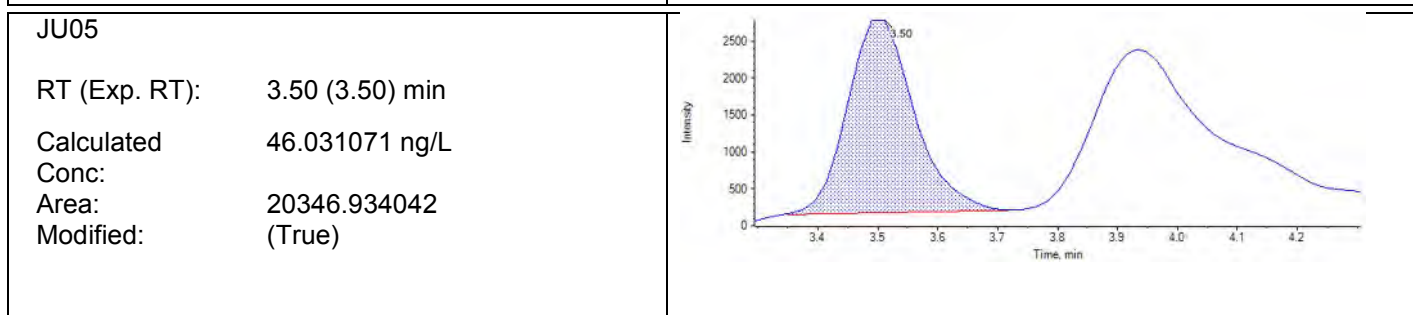
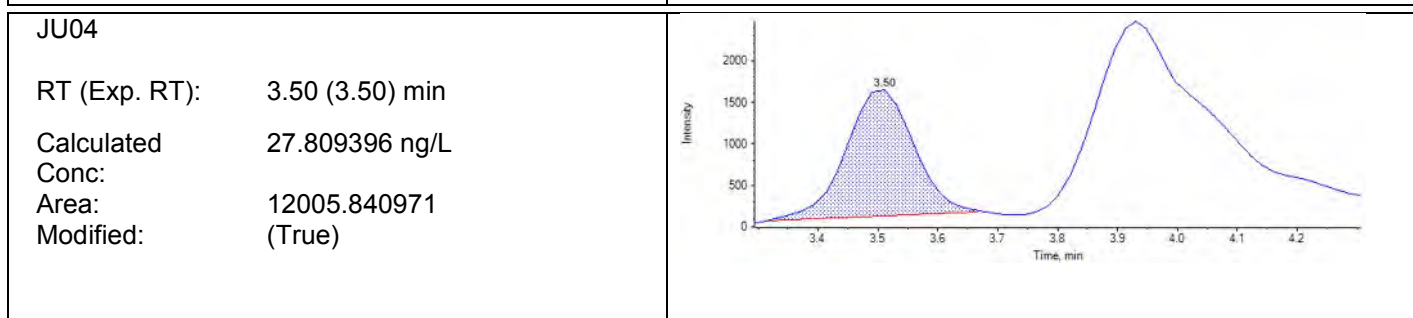
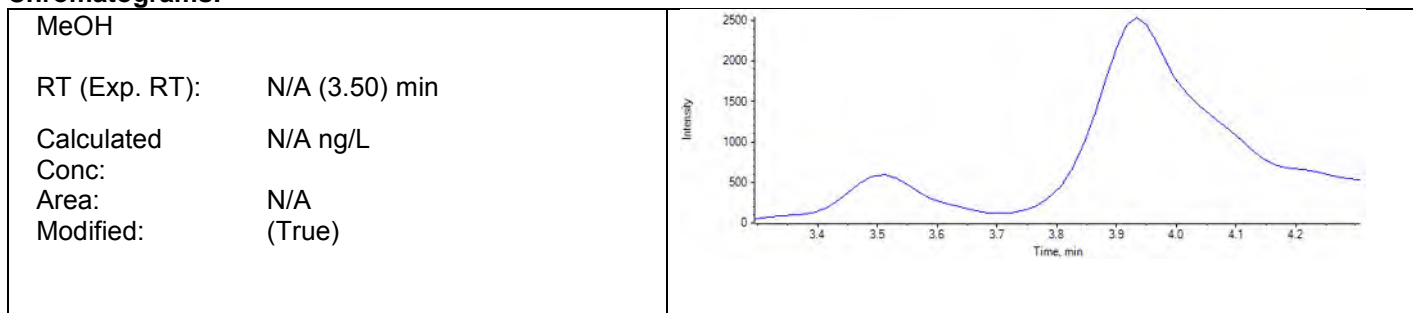
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	12006	3.50	43240	25.00000	27.809396	111
JU05	Standard	3/29/2018 7:57:30 PM	20347	3.50	46120	50.00000	46.031071	92
JU06	Standard	3/29/2018 8:08:16 PM	43532	3.50	44700	100.00000	105.355956	105
JU07	Standard	3/29/2018 8:19:03 PM	72786	3.50	33530	250.00000	238.674628	95
JU08	Standard	3/29/2018 8:29:49 PM	147864	3.50	36280	500.00000	450.845153	90
JU09	Standard	3/29/2018 8:40:36 PM	357974	3.50	40220	1000.00000	988.413322	99
JU10	Standard	3/29/2018 8:51:22 PM	783332	3.50	33220	2500.00000	2623.811311	105
JU11	Standard	3/29/2018 9:02:09 PM	3016899	3.50	32180	10000.00000	10438.270677	104
JU12	Standard	3/29/2018 9:12:55 PM	7753792	3.50	44270	20000.00000	19505.788484	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	32109	3.50	43000	N/A	80.067917	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	368407	3.49	42650	1000.00000	959.023413	96
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	44770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	27700	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	852075	3.49	39910	N/A	2375.197007	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	7946	3.49	26690	N/A	30.041740	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	31750	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	39030	N/A	N/A	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	349460	3.48	38930	1000.00000	996.747659	100

**Chromatograms:**





**Analyte:** PFUnA\_2 (563.0 / 269.0)

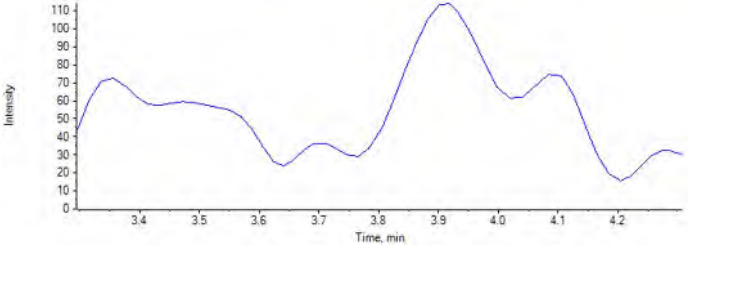
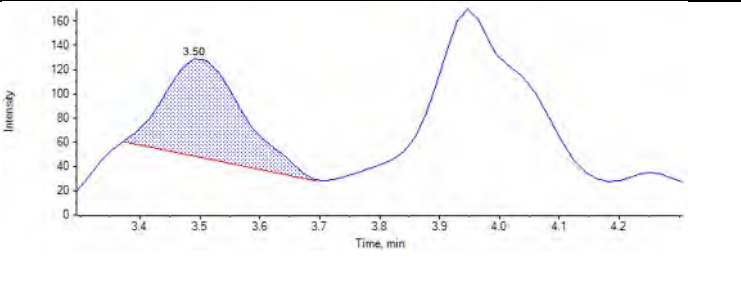
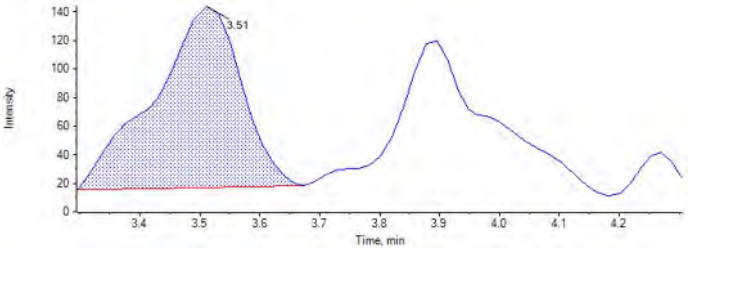
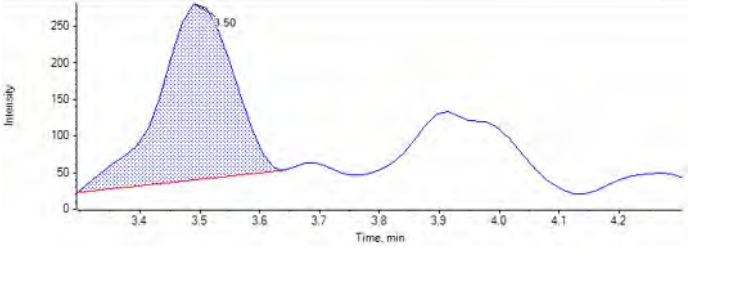
<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	742	3.50	43240	25.00000	23.494341	94
JU05	Standard	3/29/2018 7:57:30 PM	1290	3.51	46120	50.00000	50.191532	100
JU06	Standard	3/29/2018 8:08:16 PM	2062	3.50	44700	100.00000	94.982408	95
JU07	Standard	3/29/2018 8:19:03 PM	3976	3.50	33530	250.00000	273.739324	110
JU08	Standard	3/29/2018 8:29:49 PM	7421	3.50	36280	500.00000	485.919754	97
JU09	Standard	3/29/2018 8:40:36 PM	17204	3.50	40220	1000.00000	1036.888823	104
JU10	Standard	3/29/2018 8:51:22 PM	33552	3.50	33220	2500.00000	2473.998299	99
JU11	Standard	3/29/2018 9:02:09 PM	134312	3.49	32180	10000.00000	10279.948544	103
JU12	Standard	3/29/2018 9:12:55 PM	353848	3.49	44270	20000.00000	19705.836976	99
JP83 IB	Unknown	3/29/2018 9:23:42 PM	2046	3.49	43000	N/A	98.588108	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	16920	3.49	42650	1000.00000	960.150869	96
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	44770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	27700	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	38554	3.49	39910	N/A	2365.335382	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	26690	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	31750	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	39030	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	15783	3.48	38930	1000.00000	981.654416	98

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 23.494341 ng/L</p> <p>Area: 742.097987</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.51 (3.50) min</p> <p>Calculated Conc: 50.191532 ng/L</p> <p>Area: 1290.255349</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 94.982408 ng/L</p> <p>Area: 2062.066345</p> <p>Modified: (False)</p>	

**Analyte:** PFDoA\_1 (613.0 / 569.0)

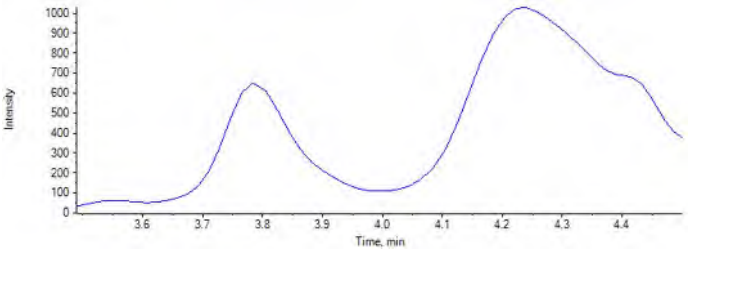
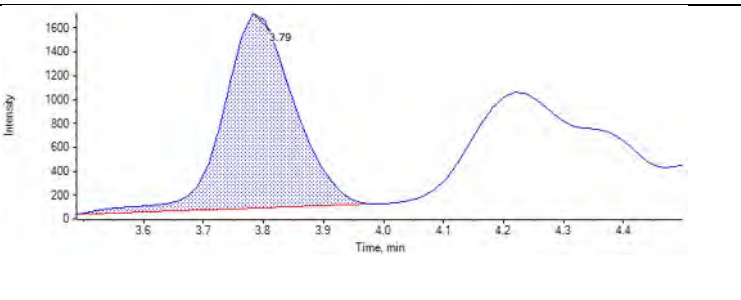
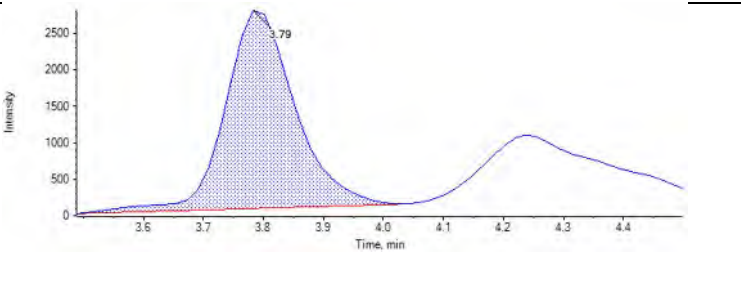
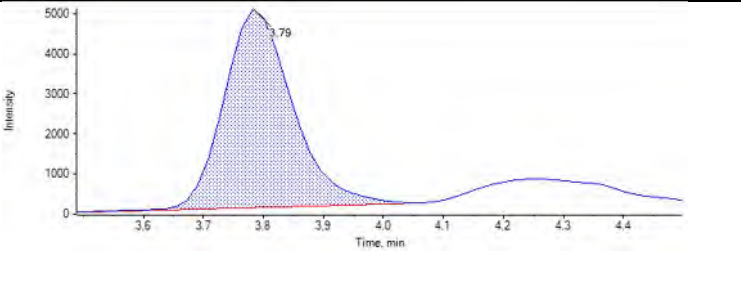
<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	13275	3.79	43660	25.00000	18.585863	74
JU05	Standard	3/29/2018 7:57:30 PM	22046	3.79	45030	50.00000	43.934838	88
JU06	Standard	3/29/2018 8:08:16 PM	39377	3.79	44900	100.00000	96.867204	97
JU07	Standard	3/29/2018 8:19:03 PM	71102	3.79	36780	250.00000	241.211483	96
JU08	Standard	3/29/2018 8:29:49 PM	140858	3.79	35310	500.00000	522.164732	104
JU09	Standard	3/29/2018 8:40:36 PM	352371	3.78	40800	1000.00000	1157.206023	116
JU10	Standard	3/29/2018 8:51:22 PM	808937	3.78	35240	2500.00000	3113.816575	125
JU11	Standard	3/29/2018 9:02:09 PM	3064308	3.78	39000	10000.00000	10714.559444	107
JU12	Standard	3/29/2018 9:12:55 PM	8041132	3.78	59270	20000.00000	18516.653838	93
JP83 IB	Unknown	3/29/2018 9:23:42 PM	33169	3.78	45140	N/A	77.443091	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	347764	3.78	42040	1000.00000	1107.418270	111
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	42590	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	8145	3.78	24770	N/A	21.972312	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	747961	3.78	36910	N/A	2746.300109	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	5005	3.78	25510	N/A	3.848659	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2623	3.77	27280	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	35530	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	352272	3.77	43080	1000.00000	1094.524099	109

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 18.585863 ng/L</p> <p>Area: 13274.649041</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 43.934838 ng/L</p> <p>Area: 22045.996619</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 96.867204 ng/L</p> <p>Area: 39376.988614</p> <p>Modified: (False)</p>	

**Analyte:** PFDoA\_2 (613.0 / 319.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2028	3.79	43660	25.00000	20.789022	83
JU05	Standard	3/29/2018 7:57:30 PM	3201	3.79	45030	50.00000	41.751139	84
JU06	Standard	3/29/2018 8:08:16 PM	5964	3.78	44900	100.00000	94.252859	94
JU07	Standard	3/29/2018 8:19:03 PM	11133	3.79	36780	250.00000	238.773328	96
JU08	Standard	3/29/2018 8:29:49 PM	22616	3.79	35310	500.00000	526.139502	105
JU09	Standard	3/29/2018 8:40:36 PM	57435	3.78	40800	1000.00000	1178.790809	118
JU10	Standard	3/29/2018 8:51:22 PM	125073	3.78	35240	2500.00000	3000.505564	120
JU11	Standard	3/29/2018 9:02:09 PM	494416	3.78	39000	10000.00000	10766.450030	108
JU12	Standard	3/29/2018 9:12:55 PM	1294230	3.78	59270	20000.00000	18557.547746	93
JP83 IB	Unknown	3/29/2018 9:23:42 PM	5869	3.78	45140	N/A	91.864048	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	54473	3.78	42040	1000.00000	1083.544153	108
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	42590	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1076	3.78	24770	N/A	18.232628	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	114794	3.78	36910	N/A	2627.137040	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	672	3.76	25510	N/A	3.699444	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	27280	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	35530	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	53014	3.77	43080	1000.00000	1028.197213	103

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 20.789022 ng/L</p> <p>Area: 2027.995429</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 41.751139 ng/L</p> <p>Area: 3201.464104</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 94.252859 ng/L</p> <p>Area: 5963.640021</p> <p>Modified: (False)</p>	

**Analyte:** PFTTrDA\_1 (663.0 / 619.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	11194	4.05	35220	25.00000	18.037092	72
JU05	Standard	3/29/2018 7:57:30 PM	19313	4.05	39810	50.00000	41.435891	83
JU06	Standard	3/29/2018 8:08:16 PM	34260	4.05	38360	100.00000	98.499120	99
JU07	Standard	3/29/2018 8:19:03 PM	60721	4.05	31230	250.00000	245.482933	98
JU08	Standard	3/29/2018 8:29:49 PM	128892	4.05	32570	500.00000	526.942491	105
JU09	Standard	3/29/2018 8:40:36 PM	316179	4.04	35230	1000.00000	1228.445359	123
JU10	Standard	3/29/2018 8:51:22 PM	699532	4.04	32820	2500.00000	2954.091521	118
JU11	Standard	3/29/2018 9:02:09 PM	2679205	4.04	33780	10000.00000	11066.106802	111
JU12	Standard	3/29/2018 9:12:55 PM	7021419	4.04	53730	20000.00000	18245.958790	91
JP83 IB	Unknown	3/29/2018 9:23:42 PM	30171	4.04	39340	N/A	80.847690	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	311245	4.03	36530	1000.00000	1165.167096	117
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	6870	4.03	14270	N/A	40.921316	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	487344	4.03	21390	N/A	3159.966521	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3869	4.03	15510	N/A	8.482100	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2203	4.03	18040	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	20910	N/A	N/A	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	317501	4.02	37360	1000.00000	1162.073272	116

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows a baseline with a significant peak at 4.05 minutes. The y-axis represents intensity from 0 to 500, and the x-axis represents time from 3.90 to 4.70 minutes.</p>
<p>JU04</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 18.037092 ng/L</p> <p>Area: 11193.854161</p> <p>Modified: (True)</p>	<p>The chromatogram shows a peak at 4.05 minutes. The peak area is shaded in blue. The y-axis represents intensity from 0 to 1400, and the x-axis represents time from 3.9 to 4.7 minutes.</p>
<p>JU05</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 41.435891 ng/L</p> <p>Area: 19313.189523</p> <p>Modified: (False)</p>	<p>The chromatogram shows a peak at 4.05 minutes. The peak area is shaded in blue. The y-axis represents intensity from 0 to 2000, and the x-axis represents time from 3.9 to 4.7 minutes.</p>
<p>JU06</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 98.499120 ng/L</p> <p>Area: 34260.142843</p> <p>Modified: (False)</p>	<p>The chromatogram shows a peak at 4.05 minutes. The peak area is shaded in blue. The y-axis represents intensity from 0 to 4000, and the x-axis represents time from 3.9 to 4.7 minutes.</p>

**Analyte:** PFTrDA\_2 (663.0 / 169.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	761	4.05	35220	25.00000	24.482066	98
JU05	Standard	3/29/2018 7:57:30 PM	1076	4.04	39810	50.00000	35.219009	70
JU06	Standard	3/29/2018 8:08:16 PM	2365	4.05	38360	100.00000	103.876978	104
JU07	Standard	3/29/2018 8:19:03 PM	4142	4.04	31230	250.00000	244.481018	98
JU08	Standard	3/29/2018 8:29:49 PM	8631	4.04	32570	500.00000	506.816096	101
JU09	Standard	3/29/2018 8:40:36 PM	20517	4.04	35230	1000.00000	1135.695566	114
JU10	Standard	3/29/2018 8:51:22 PM	46550	4.04	32820	2500.00000	2792.612745	112
JU11	Standard	3/29/2018 9:02:09 PM	189201	4.03	33780	10000.00000	11083.593179	111
JU12	Standard	3/29/2018 9:12:55 PM	502040	4.04	53730	20000.00000	18498.223344	92
JP83 IB	Unknown	3/29/2018 9:23:42 PM	2263	4.04	39340	N/A	95.651446	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	22240	4.03	36530	1000.00000	1188.360426	119
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	528	4.03	14270	N/A	55.001075	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	36931	4.03	21390	N/A	3403.858354	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	279	4.01	15510	N/A	17.377666	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	127	4.04	18040	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	20910	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	21296	4.02	37360	1000.00000	1111.421715	111

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 24.482066 ng/L</p> <p>Area: 761.032463</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 35.219009 ng/L</p> <p>Area: 1075.826407</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 103.876978 ng/L</p> <p>Area: 2365.336178</p> <p>Modified: (False)</p>	

**Analyte:** PFTeDA\_1 (713.0 / 669.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	12657	4.27	35220	25.00000	20.698509	83
JU05	Standard	3/29/2018 7:57:30 PM	19748	4.27	39810	50.00000	37.374163	75
JU06	Standard	3/29/2018 8:08:16 PM	38870	4.27	38360	100.00000	100.483978	100
JU07	Standard	3/29/2018 8:19:03 PM	70859	4.27	31230	250.00000	253.641545	101
JU08	Standard	3/29/2018 8:29:49 PM	147700	4.27	32570	500.00000	530.011524	106
JU09	Standard	3/29/2018 8:40:36 PM	350563	4.27	35230	1000.00000	1190.575893	119
JU10	Standard	3/29/2018 8:51:22 PM	776102	4.26	32820	2500.00000	2861.500365	114
JU11	Standard	3/29/2018 9:02:09 PM	2987998	4.26	33780	10000.00000	10768.712330	108
JU12	Standard	3/29/2018 9:12:55 PM	8230664	4.26	53730	20000.00000	18662.001693	93
JP83 IB	Unknown	3/29/2018 9:23:42 PM	38318	4.26	39340	N/A	95.686639	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	346970	4.26	36530	1000.00000	1135.643035	114
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	7229	4.26	14270	N/A	38.659502	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	499091	4.26	21390	N/A	2823.496803	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3586	4.26	15510	N/A	5.066297	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2180	4.25	18040	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	972	4.25	20910	N/A	< 0	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	345189	4.25	37360	1000.00000	1104.043778	110

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 20.698509 ng/L</p> <p>Area: 12657.108570</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 37.374163 ng/L</p> <p>Area: 19747.668766</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 100.483978 ng/L</p> <p>Area: 38870.333588</p> <p>Modified: (False)</p>	

**Analyte:** PFTeDA\_2 (713.0 / 169.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	596	4.26	35220	25.00000	23.171072	93
JU05	Standard	3/29/2018 7:57:30 PM	898	4.27	39810	50.00000	36.229290	72
JU06	Standard	3/29/2018 8:08:16 PM	1999	4.27	38360	100.00000	104.692473	105
JU07	Standard	3/29/2018 8:19:03 PM	3793	4.26	31230	250.00000	265.266327	106
JU08	Standard	3/29/2018 8:29:49 PM	6945	4.27	32570	500.00000	477.858637	96
JU09	Standard	3/29/2018 8:40:36 PM	18075	4.26	35230	1000.00000	1172.163483	117
JU10	Standard	3/29/2018 8:51:22 PM	38995	4.26	32820	2500.00000	2735.811572	109
JU11	Standard	3/29/2018 9:02:09 PM	157113	4.26	33780	10000.00000	10757.710831	108
JU12	Standard	3/29/2018 9:12:55 PM	437753	4.26	53730	20000.00000	18852.096314	94
JP83 IB	Unknown	3/29/2018 9:23:42 PM	2079	4.26	39340	N/A	106.379057	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	17154	4.25	36530	1000.00000	1071.718303	107
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	431	4.24	14270	N/A	53.919886	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	24983	4.25	21390	N/A	2689.414852	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	218	4.25	15510	N/A	16.524613	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	18040	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	20910	N/A	N/A	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	17652	4.25	37360	1000.00000	1078.395151	108

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 23.171072 ng/L</p> <p>Area: 595.691715</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 36.229290 ng/L</p> <p>Area: 897.730230</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 104.692473 ng/L</p> <p>Area: 1998.777313</p> <p>Modified: (False)</p>	



Analyte: NMeFOSAA\_1 (570.0 / 419.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

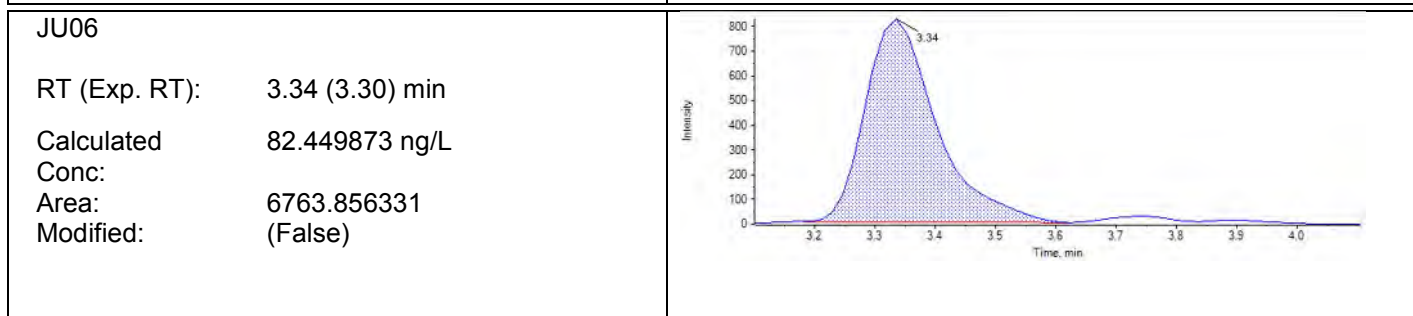
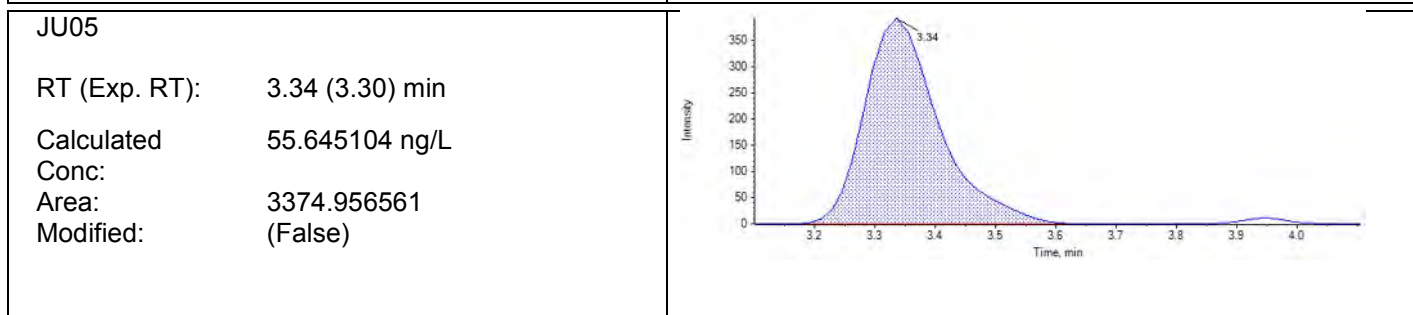
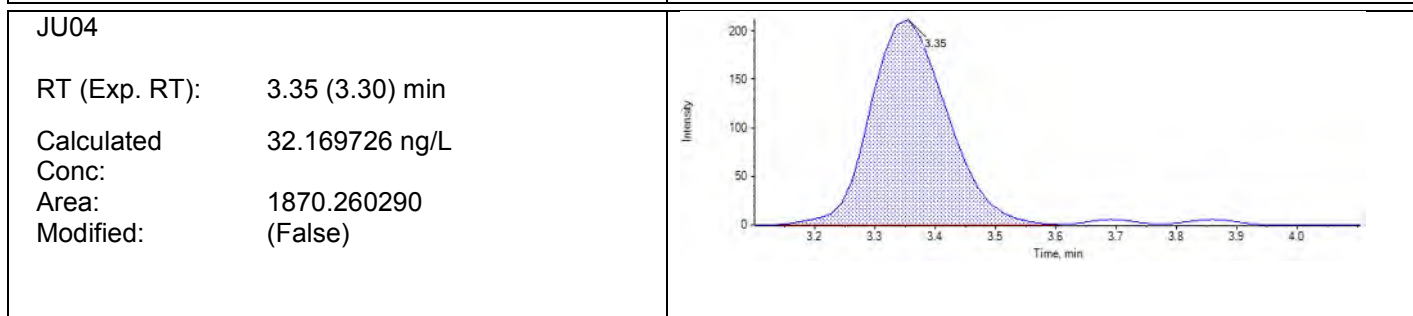
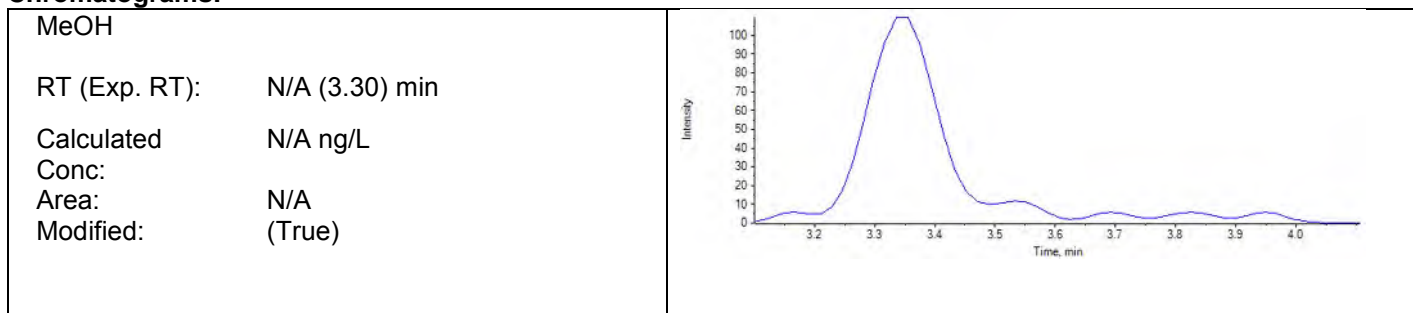
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	1870	3.35	6367	25.00000	32.169726	129
JU05	Standard	3/29/2018 7:57:30 PM	3375	3.34	6113	50.00000	55.645104	111
JU06	Standard	3/29/2018 8:08:16 PM	6764	3.34	7990	100.00000	82.449873	82
JU07	Standard	3/29/2018 8:19:03 PM	12765	3.34	5664	250.00000	211.355806	85
JU08	Standard	3/29/2018 8:29:49 PM	25252	3.34	5607	500.00000	420.344353	84
JU09	Standard	3/29/2018 8:40:36 PM	58220	3.33	5285	1000.00000	1046.700488	105
JU10	Standard	3/29/2018 8:51:22 PM	130321	3.33	5030	2500.00000	2627.097605	105
JU11	Standard	3/29/2018 9:02:09 PM	490992	3.33	7440	10000.00000	9880.284792	99
JU12	Standard	3/29/2018 9:12:55 PM	1313431	3.33	9562	20000.00000	no root	N/A
<del>JU12</del>	<del>Unknown</del>	<del>3/29/2018 9:23:42 PM</del>	<del>7644</del>	<del>3.33</del>	<del>6596</del>	<del>N/A</del>	<del>110.947437</del>	<del>N/A</del>
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	58365	3.33	7442	1000.00000	737.293483	74
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	6741	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1368	3.33	3932	N/A	37.074561	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	127704	3.33	6026	N/A	2100.534197	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1336	3.33	2854	N/A	48.021580	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	456	3.33	4519	N/A	14.679917	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5607	N/A	N/A	N/A

Not being used in this calibration  
 DMS 4/6/18

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	55006	3.32	6215	1000.00000	834.573419	83

**Chromatograms:**



**Analyte:** NMeFOSAA\_2 (570.0 / 512.0)

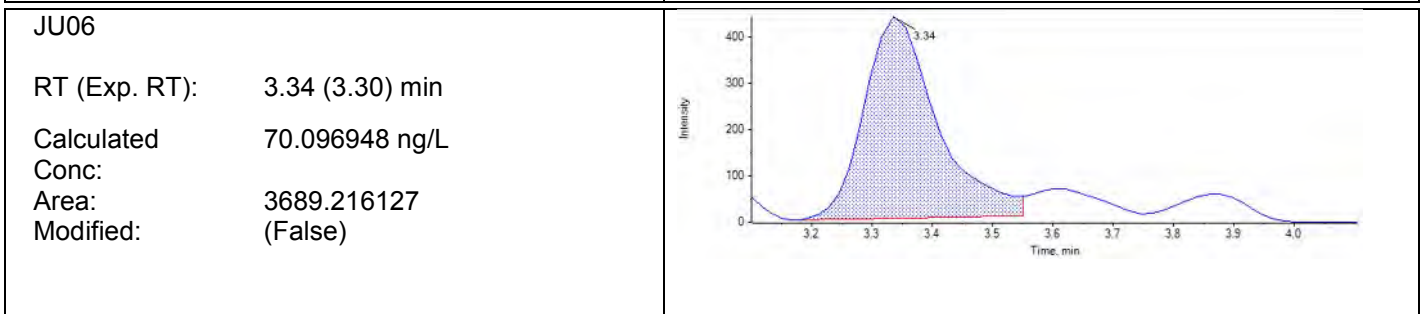
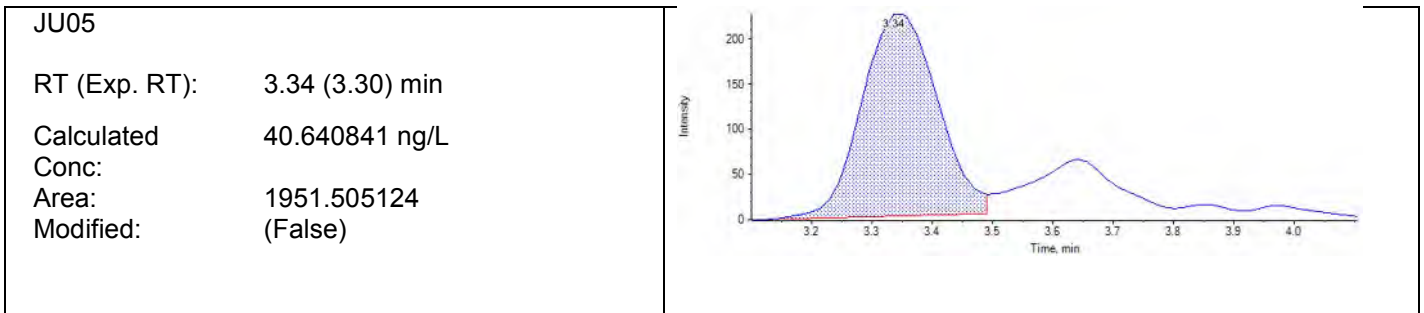
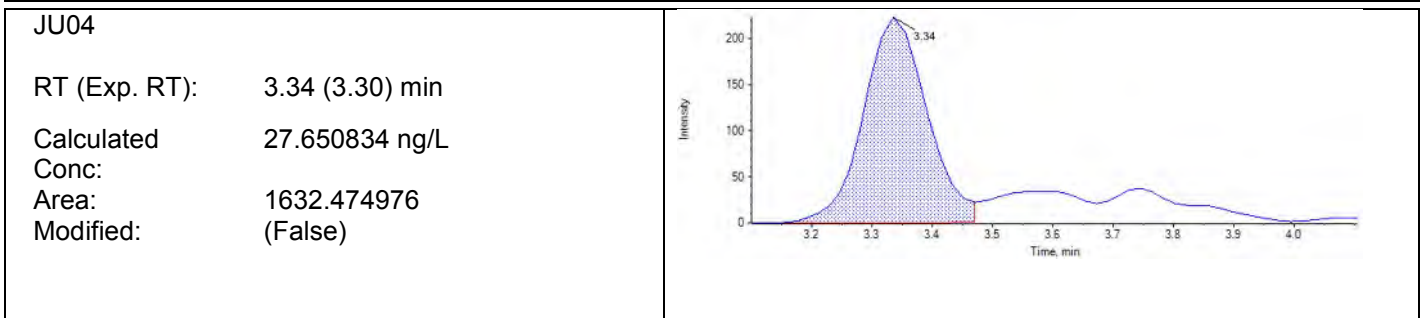
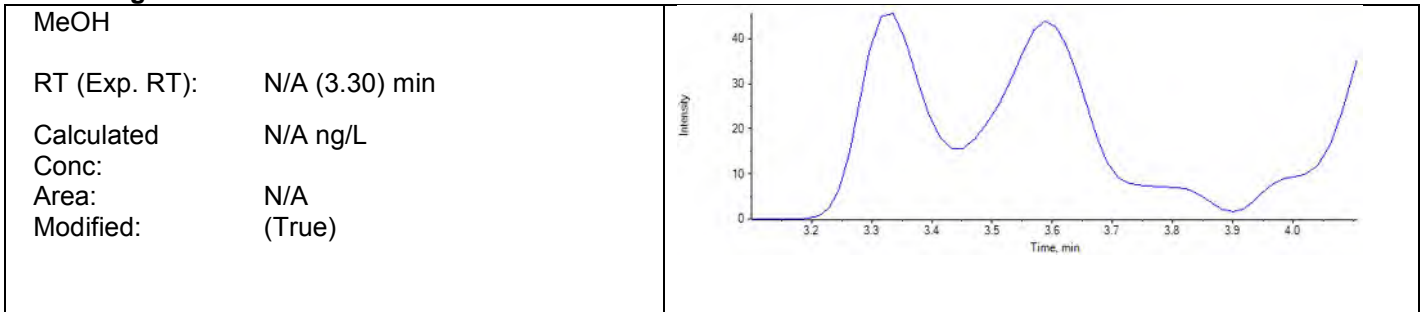
<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	1632	3.34	6367	25.00000	27.650834	111
JU05	Standard	3/29/2018 7:57:30 PM	1952	3.34	6113	50.00000	40.640841	81
JU06	Standard	3/29/2018 8:08:16 PM	3689	3.34	7990	100.00000	70.096948	70
JU07	Standard	3/29/2018 8:19:03 PM	6974	3.33	5664	250.00000	229.533991	92
JU08	Standard	3/29/2018 8:29:49 PM	15449	3.34	5607	500.00000	546.889443	109
JU09	Standard	3/29/2018 8:40:36 PM	33099	3.33	5285	1000.00000	1285.828032	129
JU10	Standard	3/29/2018 8:51:22 PM	71765	3.33	5030	2500.00000	3019.444766	121
JU11	Standard	3/29/2018 9:02:09 PM	273220	3.33	7440	10000.00000	8302.470284	83
JU12	Standard	3/29/2018 9:12:55 PM	755274	3.33	9562	20000.00000	21088.210110	105
JP83 IB	Unknown	3/29/2018 9:23:42 PM	4543	3.33	6596	N/A	117.082395	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	34459	3.33	7442	1000.00000	940.356425	94
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	6741	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	569	3.32	3932	N/A	4.561311	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	70676	3.33	6026	N/A	2462.046984	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	595	3.34	2854	N/A	17.719170	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	4519	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5607	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	32125	3.32	6215	1000.00000	1053.920912	105

**Chromatograms:**



**Analyte:** NETFOSAA\_1 (584.0 / 419.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	1582	3.50	7166	25.00000	25.089843	100
JU05	Standard	3/29/2018 7:57:30 PM	3092	3.50	7427	50.00000	50.987744	102
JU06	Standard	3/29/2018 8:08:16 PM	6030	3.51	7311	100.00000	105.048487	105
JU07	Standard	3/29/2018 8:19:03 PM	10949	3.50	5896	250.00000	241.694137	97
JU08	Standard	3/29/2018 8:29:49 PM	21793	3.50	6189	500.00000	462.018768	92
JU09	Standard	3/29/2018 8:40:36 PM	53491	3.50	6736	1000.00000	1047.054598	105
JU10	Standard	3/29/2018 8:51:22 PM	119005	3.50	6458	2500.00000	2435.103646	97
JU11	Standard	3/29/2018 9:02:09 PM	449432	3.50	5815	10000.00000	10227.125206	102
JU12	Standard	3/29/2018 9:12:55 PM	1161080	3.50	7749	20000.00000	19830.877572	99
JP83 IB	Unknown	3/29/2018 9:23:42 PM	8339	3.49	7880	N/A	135.958857	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	56365	3.49	6492	1000.00000	1145.121580	115
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	7204	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1606	3.48	3826	N/A	51.436599	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	118076	3.49	5268	N/A	2962.710584	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1539	3.50	4402	N/A	42.152243	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	595	3.48	3913	N/A	15.988715	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5567	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	54772	3.49	5766	1000.00000	1253.275267	125

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 25.089843 ng/L</p> <p>Area: 1581.913907</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 50.987744 ng/L</p> <p>Area: 3092.391531</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 105.048487 ng/L</p> <p>Area: 6029.851195</p> <p>Modified: (False)</p>	

**Analyte:** NETFOSAA\_2 (584.0 / 483.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

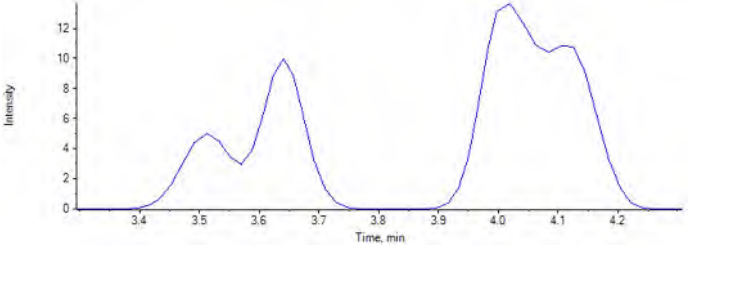
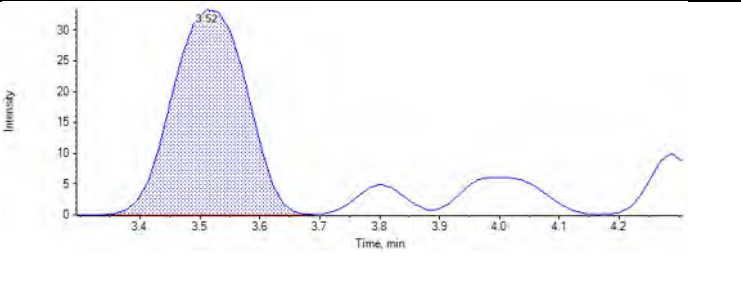
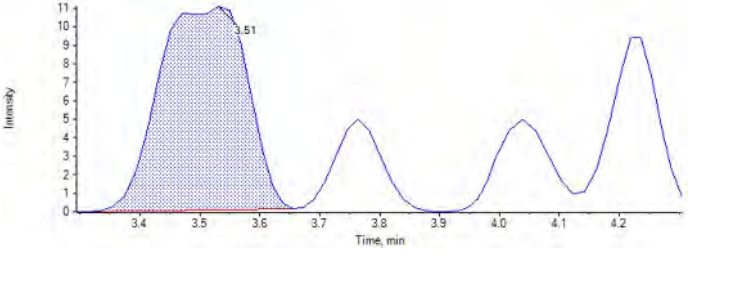
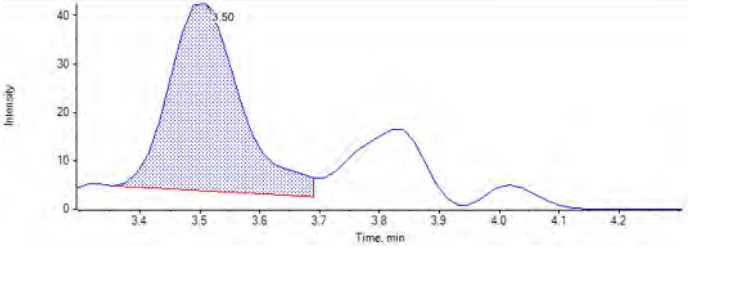
**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	287	3.52	7166	25.00000	92.065604	368
JU05	Standard	3/29/2018 7:57:30 PM	113	3.51	7427	50.00000	35.851083	72
JU06	Standard	3/29/2018 8:08:16 PM	322	3.50	7311	100.00000	100.927486	101
JU07	Standard	3/29/2018 8:19:03 PM	614	3.50	5896	250.00000	237.021437	95
JU08	Standard	3/29/2018 8:29:49 PM	1653	3.49	6189	500.00000	606.268765	121
JU09	Standard	3/29/2018 8:40:36 PM	3412	3.50	6736	1000.00000	1148.398097	115
JU10	Standard	3/29/2018 8:51:22 PM	6577	3.50	6458	2500.00000	2307.175978	92
JU11	Standard	3/29/2018 9:02:09 PM	27916	3.49	5815	10000.00000	10871.876953	109
JU12	Standard	3/29/2018 9:12:55 PM	65333	3.50	7749	20000.00000	19092.480200	95
JP83 IB	Unknown	3/29/2018 9:23:42 PM	723	3.48	7880	N/A	208.964181	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	3494	3.49	6492	1000.00000	1219.963273	122
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	7204	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	3826	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	5990	3.49	5268	N/A	2575.806244	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	117	3.47	4402	N/A	61.486467	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	3913	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5567	N/A	N/A	N/A



Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	3286	3.49	5766	1000.00000	1291.713214	129

**Chromatograms:**

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 92.065604 ng/L</p> <p>Area: 287.109325</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 35.851083 ng/L</p> <p>Area: 113.169395</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 100.927486 ng/L</p> <p>Area: 321.519454</p> <p>Modified: (False)</p>	

**Analyte:** PFBA (213.0 / 169.0)

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

**Samples:**

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	19104	1.07	28770	25.00000	17.241044	69
JU05	Standard	3/29/2018 7:57:30 PM	25153	1.07	28470	50.00000	44.113279	88
JU06	Standard	3/29/2018 8:08:16 PM	41692	1.05	28920	100.00000	112.419718	112
JU07	Standard	3/29/2018 8:19:03 PM	62131	1.04	23550	250.00000	258.858121	104
JU08	Standard	3/29/2018 8:29:49 PM	97169	1.04	24390	500.00000	423.629329	85
JU09	Standard	3/29/2018 8:40:36 PM	292405	1.03	30000	1000.00000	1129.039886	113
JU10	Standard	3/29/2018 8:51:22 PM	497078	1.03	25120	2500.00000	2357.771243	94
JU11	Standard	3/29/2018 9:02:09 PM	1871940	1.03	21280	10000.00000	10699.785937	107
JU12	Standard	3/29/2018 9:12:55 PM	4819435	1.03	30340	20000.00000	19374.382488	97
JP83 IB	Unknown	3/29/2018 9:23:42 PM	26282	1.07	30920	N/A	40.027192	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	238832	1.03	27570	1000.00000	996.253548	100
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	28100	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	17410	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	519704	1.03	25710	N/A	2409.546216	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	18060	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	19750	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	22710	N/A	N/A	N/A

Not being used in this calibration DMS 4/6/18

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	271572	1.03	24930	1000.00000	1269.397362	127

**Chromatograms:**

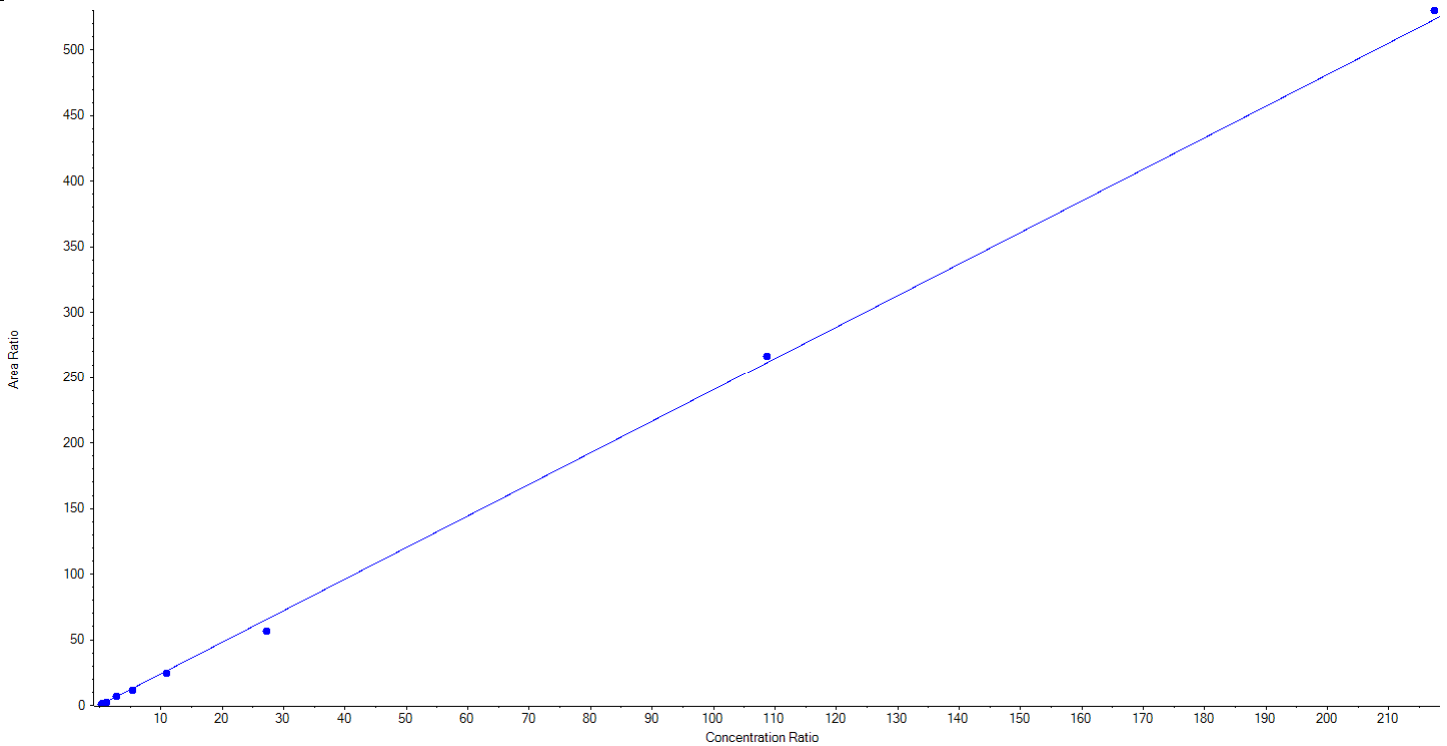
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 1.07 (1.00) min</p> <p>Calculated Conc: 17.241041 ng/L</p> <p>Area: 19103.914883</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.07 (1.00) min</p> <p>Calculated Conc: 44.113279 ng/L</p> <p>Area: 25153.206213</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.05 (1.00) min</p> <p>Calculated Conc: 112.419718 ng/L</p> <p>Area: 41692.077256</p> <p>Modified: (False)</p>	

**Analyte Name:** PFBS\_1  
**Internal Standard:** 13C3-PFBS

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 2.40631 x + -0.00311$  (r = 0.99905) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	29.546087	117.0	N/A	N/A
50.50000	1 of 1	57.819667	114.5	N/A	N/A
101.00000	1 of 1	97.437836	96.5	N/A	N/A
252.50000	1 of 1	254.440891	100.8	N/A	N/A
505.00000	1 of 1	438.237188	86.8	N/A	N/A
1010.00000	1 of 1	954.534400	94.5	N/A	N/A
2525.00000	1 of 1	2193.471695	86.9	N/A	N/A
10100.00000	1 of 1	10280.713973	101.8	N/A	N/A
20200.00000	1 of 1	20463.048262	101.3	N/A	N/A

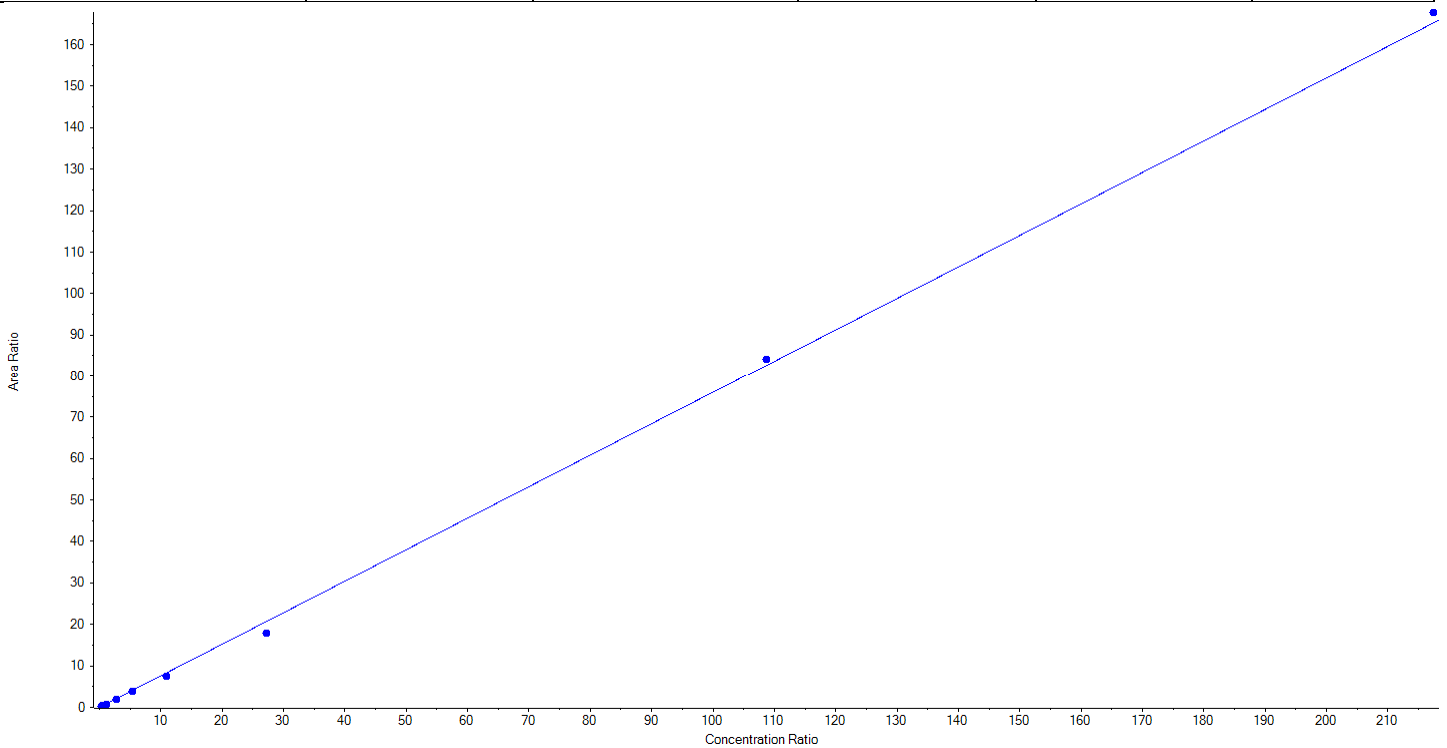


**Analyte Name:** PFBS\_2  
**Internal Standard:** 13C3-PFBS

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.75976x + 0.03059$  ( $r = 0.99895$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	29.342453	116.2	N/A	N/A
50.50000	1 of 1	62.969644	124.7	N/A	N/A
101.00000	1 of 1	91.992005	91.1	N/A	N/A
252.50000	1 of 1	246.764500	97.7	N/A	N/A
505.00000	1 of 1	454.561605	90.0	N/A	N/A
1010.00000	1 of 1	911.657403	90.3	N/A	N/A
2525.00000	1 of 1	2190.868679	86.8	N/A	N/A
10100.00000	1 of 1	10274.963832	101.7	N/A	N/A
20200.00000	1 of 1	20506.129879	101.5	N/A	N/A

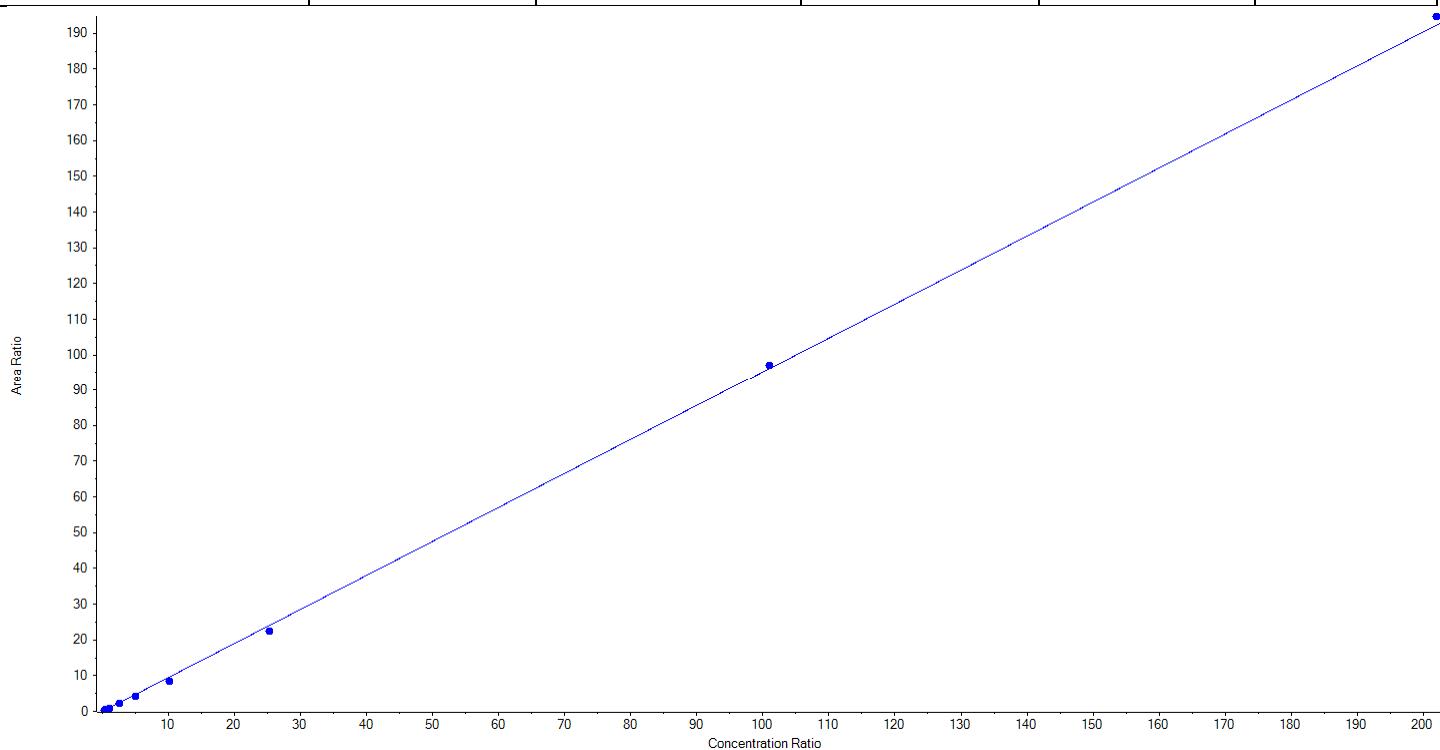


**Analyte Name:** PFHxA\_1  
**Internal Standard:** 13C5-PFHxA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.95213x + -0.01810$  ( $r = 0.99940$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	32.108208	127.2	N/A	N/A
50.50000	1 of 1	56.216074	111.3	N/A	N/A
101.00000	1 of 1	100.928808	99.9	N/A	N/A
252.50000	1 of 1	223.227908	88.4	N/A	N/A
505.00000	1 of 1	449.860662	89.1	N/A	N/A
1010.00000	1 of 1	893.148377	88.4	N/A	N/A
2525.00000	1 of 1	2358.310431	93.4	N/A	N/A
10100.00000	1 of 1	10203.682302	101.0	N/A	N/A
20200.00000	1 of 1	20451.767229	101.3	N/A	N/A

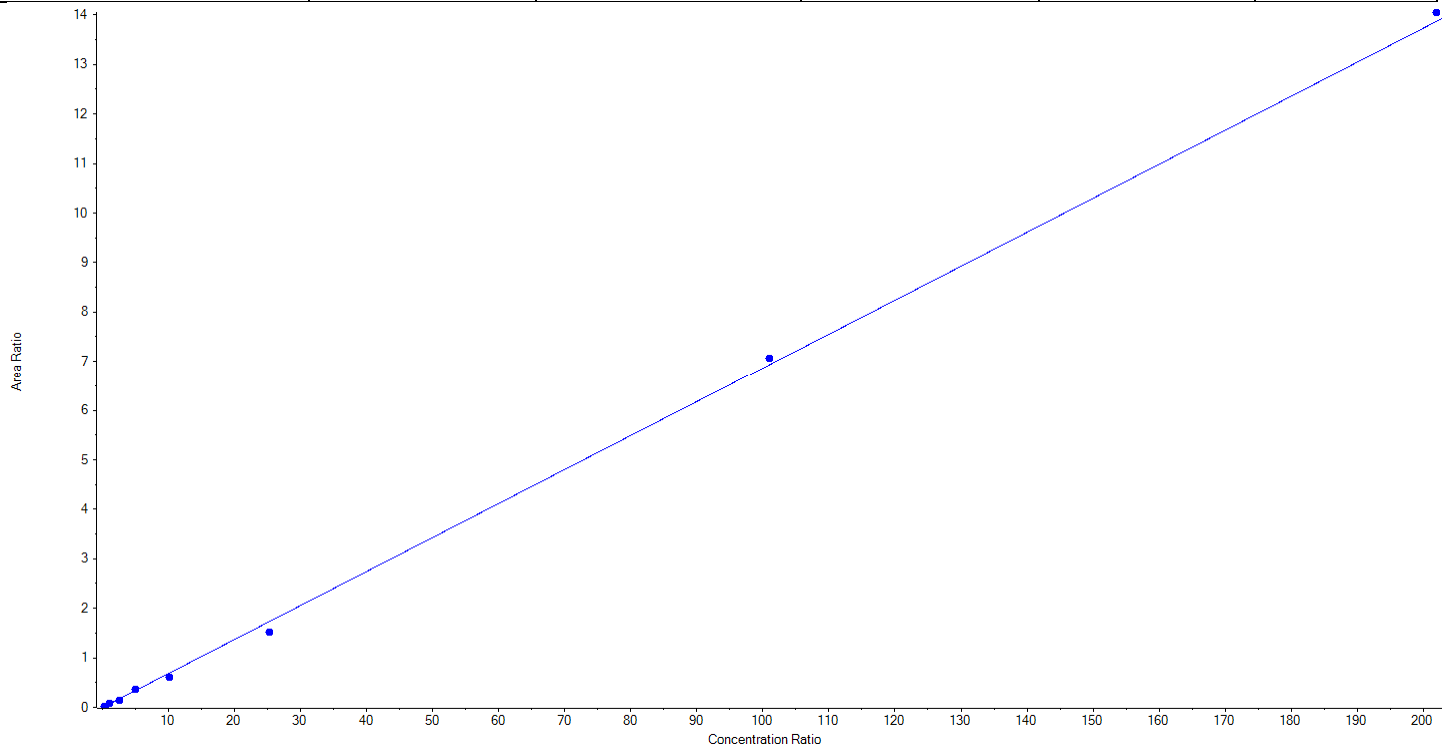


**Analyte Name:** PFHxA\_2  
**Internal Standard:** 13C5-PFHxA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.06868x + -0.00304$  ( $r = 0.99887$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	30.730900	121.7	N/A	N/A
50.50000	1 of 1	47.189149	93.4	N/A	N/A
101.00000	1 of 1	118.260833	117.1	N/A	N/A
252.50000	1 of 1	211.893503	83.9	N/A	N/A
505.00000	1 of 1	535.846621	106.1	N/A	N/A
1010.00000	1 of 1	883.060455	87.4	N/A	N/A
2525.00000	1 of 1	2202.720742	87.2	N/A	N/A
10100.00000	1 of 1	10279.586155	101.8	N/A	N/A
20200.00000	1 of 1	20459.961643	101.3	N/A	N/A



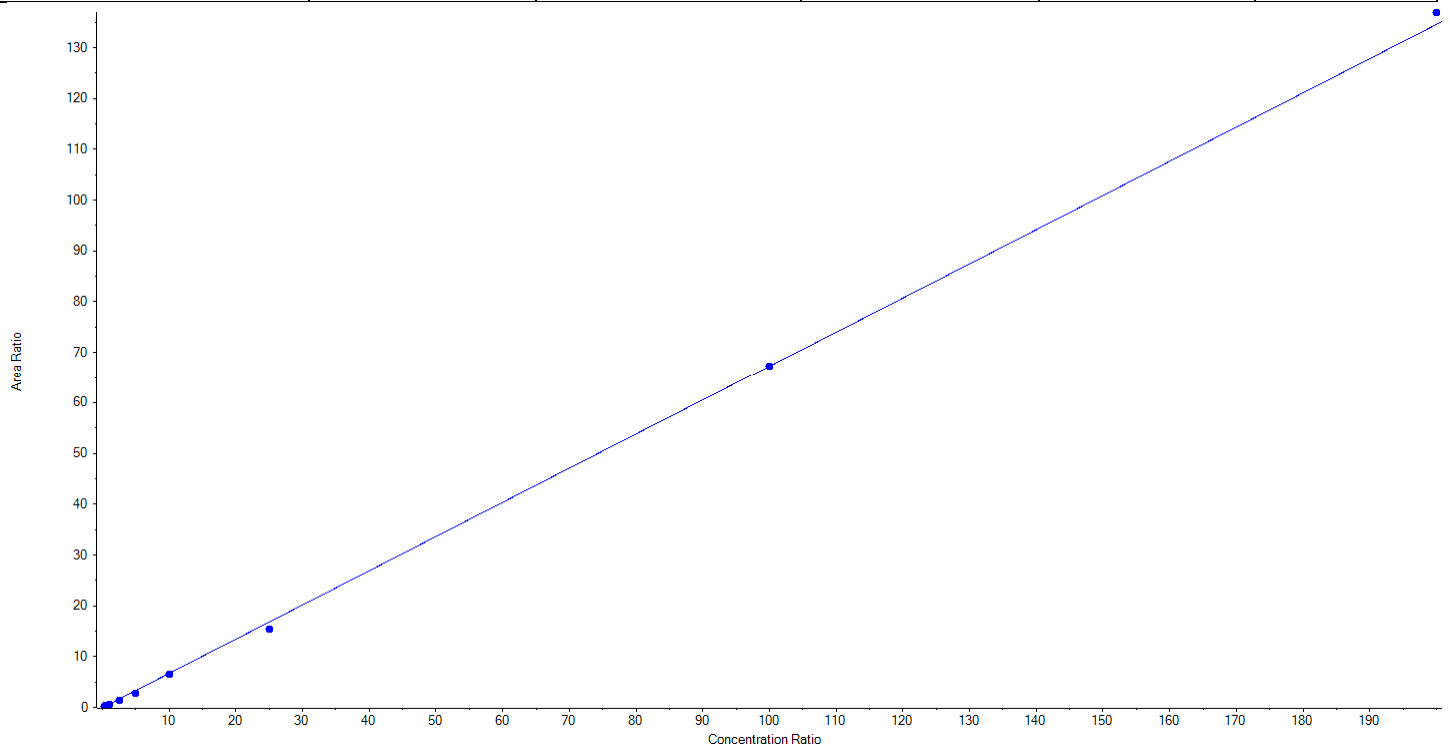


**Analyte Name:** PFHpA\_1  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.67294 x + -0.02658$  ( $r = 0.99931$ ) (weighting:  $1 / x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	32.197633	128.8	N/A	N/A
50.00000	1 of 1	54.253804	108.5	N/A	N/A
100.00000	1 of 1	102.007600	102.0	N/A	N/A
250.00000	1 of 1	220.992703	88.4	N/A	N/A
500.00000	1 of 1	408.761957	81.8	N/A	N/A
1000.00000	1 of 1	970.744144	97.1	N/A	N/A
2500.00000	1 of 1	2295.050119	91.8	N/A	N/A
10000.00000	1 of 1	9992.681399	99.9	N/A	N/A
20000.00000	1 of 1	20348.310641	101.7	N/A	N/A

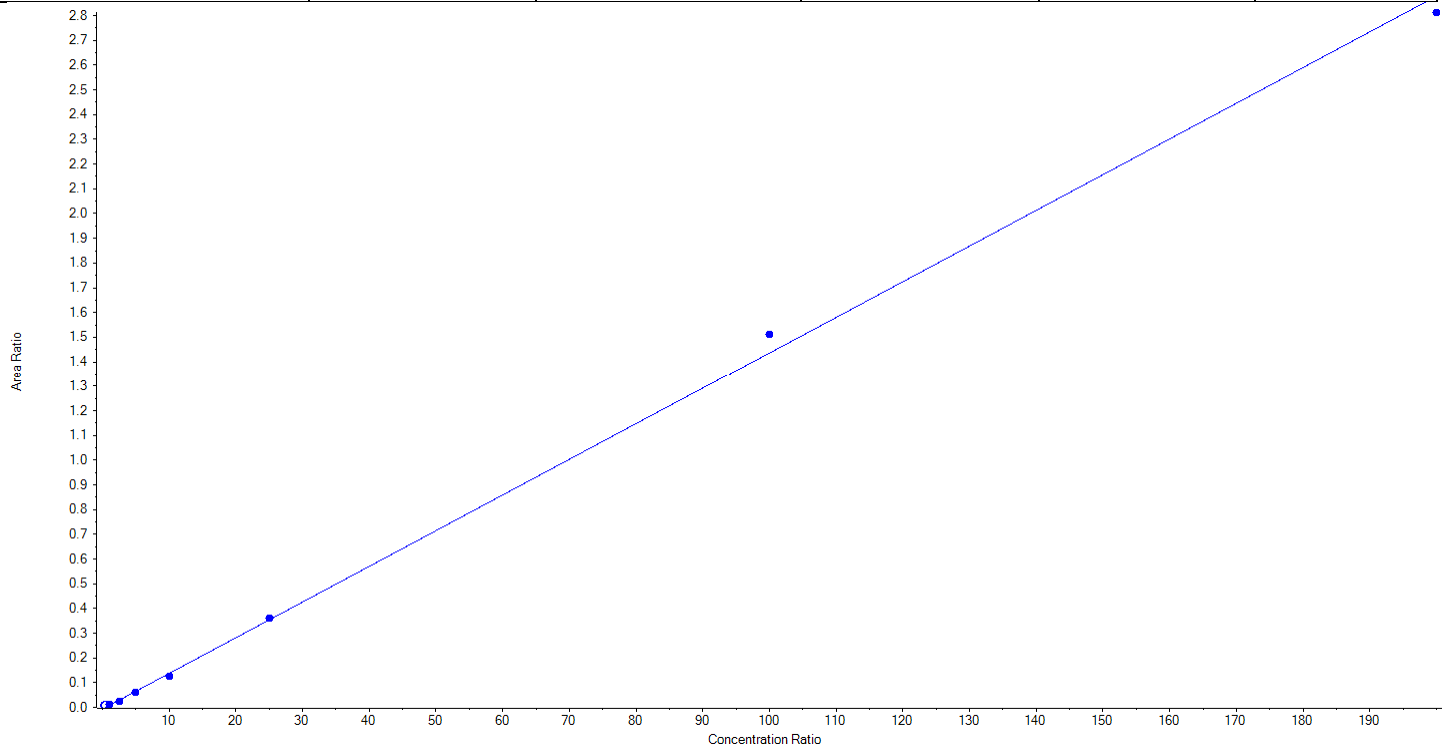


**Analyte Name:** PFHpA\_2  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.01443x + -0.00701$  ( $r = 0.99914$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	120.742095	120.7	N/A	N/A
250.00000	1 of 1	223.686864	89.5	N/A	N/A
500.00000	1 of 1	457.567789	91.5	N/A	N/A
1000.00000	1 of 1	931.504230	93.2	N/A	N/A
2500.00000	1 of 1	2555.199660	102.2	N/A	N/A
10000.00000	1 of 1	10520.939088	105.2	N/A	N/A
20000.00000	1 of 1	19540.360274	97.7	N/A	N/A

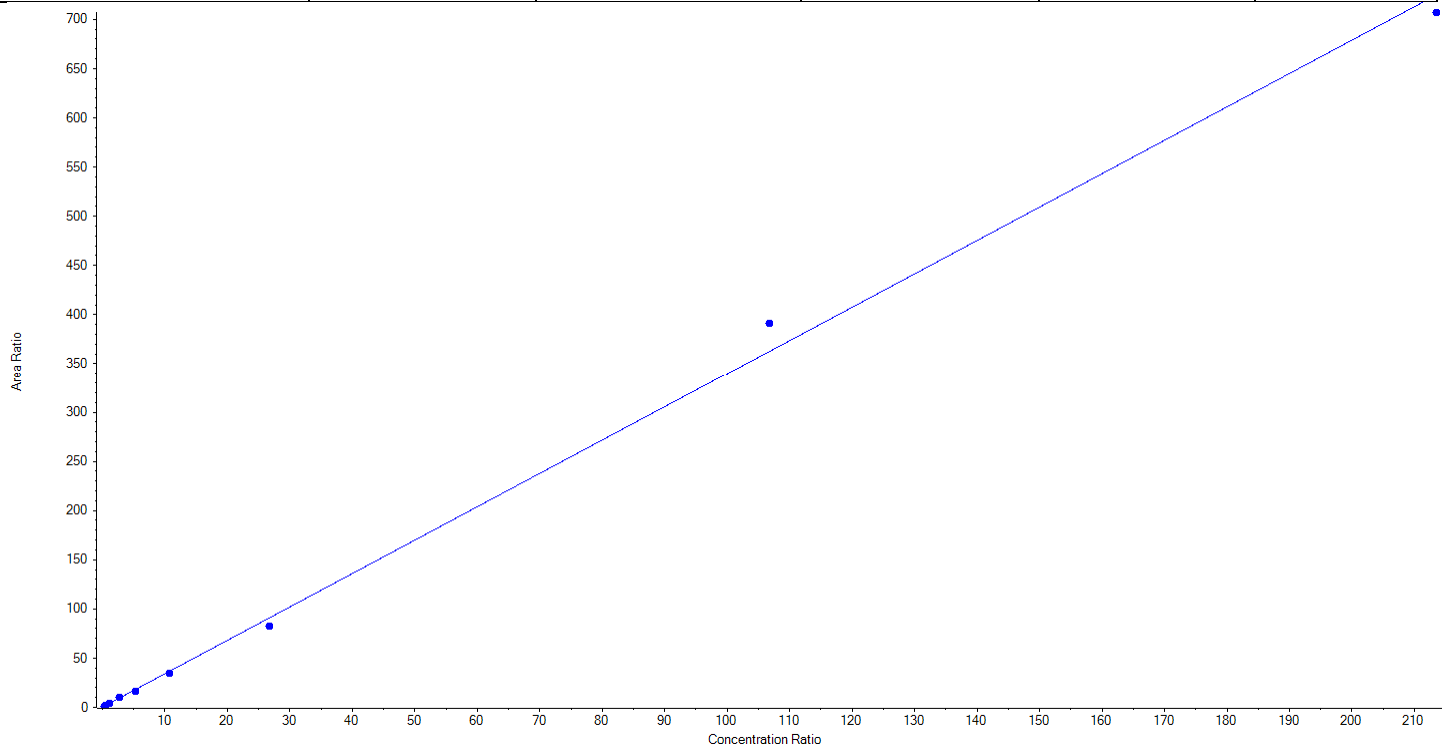


**Analyte Name:** PFHxS\_1  
**Internal Standard:** 13C3-PFHxS

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 3.39369x + 0.26882$  (r = 0.99839) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	26.892868	106.5	N/A	N/A
50.50000	1 of 1	47.936865	94.9	N/A	N/A
101.00000	1 of 1	108.161715	107.1	N/A	N/A
252.50000	1 of 1	282.324036	111.8	N/A	N/A
505.00000	1 of 1	448.094441	88.7	N/A	N/A
1010.00000	1 of 1	951.068384	94.2	N/A	N/A
2525.00000	1 of 1	2306.288510	91.3	N/A	N/A
10100.00000	1 of 1	10898.757134	107.9	N/A	N/A
20200.00000	1 of 1	19699.726048	97.5	N/A	N/A

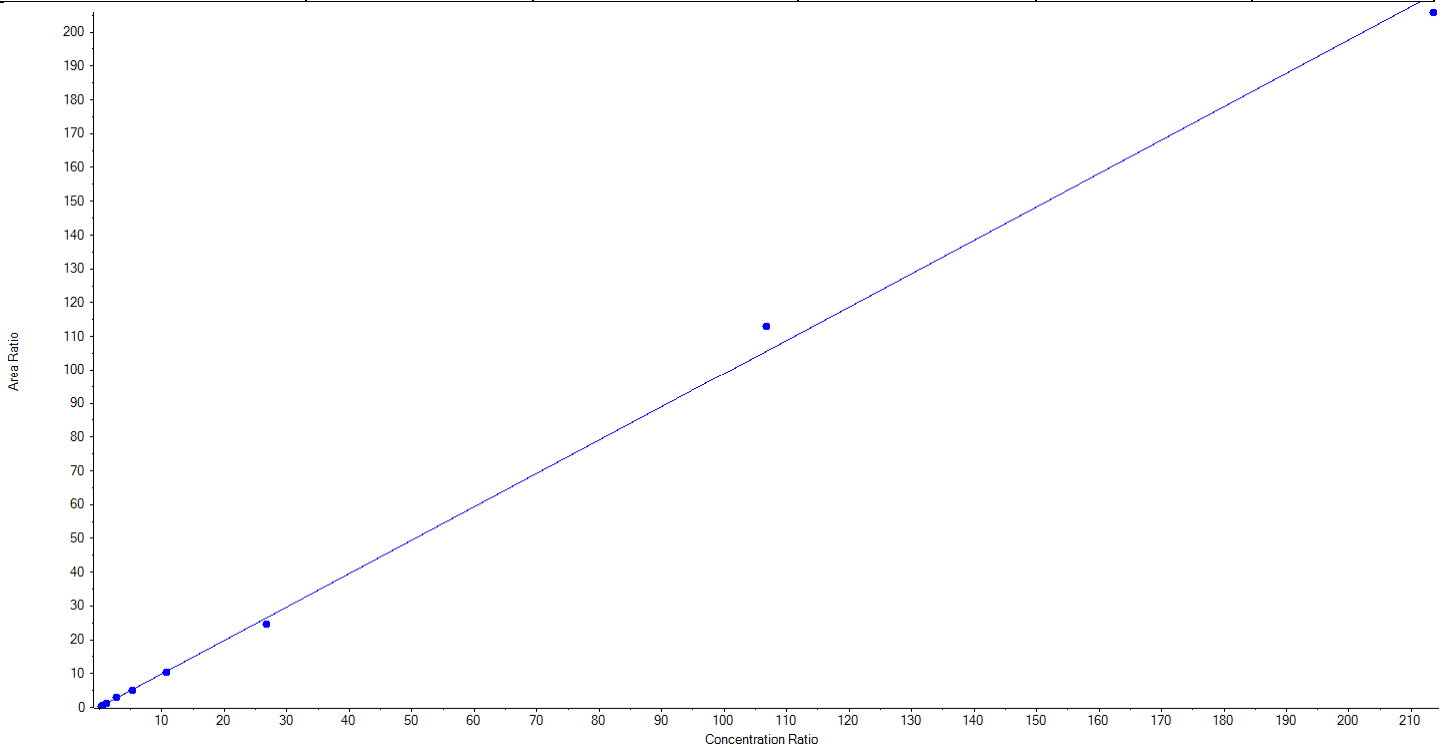


**Analyte Name:** PFHxS\_2  
**Internal Standard:** 13C3-PFHxS

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.98845x + 0.05739$  ( $r = 0.99882$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	22.397565	88.7	N/A	N/A
50.50000	1 of 1	58.270442	115.4	N/A	N/A
101.00000	1 of 1	101.841220	100.8	N/A	N/A
252.50000	1 of 1	269.047901	106.6	N/A	N/A
505.00000	1 of 1	466.069235	92.3	N/A	N/A
1010.00000	1 of 1	994.137369	98.4	N/A	N/A
2525.00000	1 of 1	2355.552213	93.3	N/A	N/A
10100.00000	1 of 1	10809.826960	107.0	N/A	N/A
20200.00000	1 of 1	19692.107095	97.5	N/A	N/A

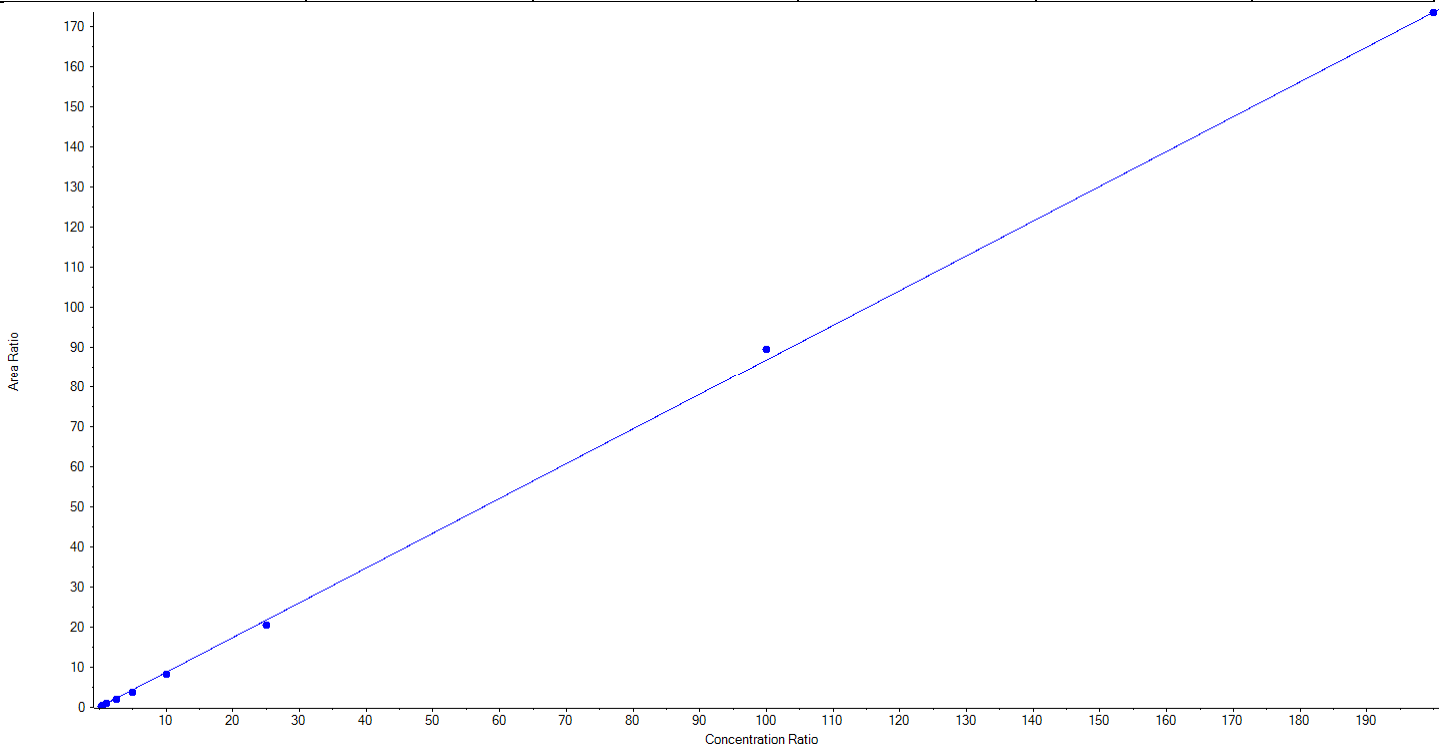


**Analyte Name:** PFOA\_1  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.86795x + 0.06748$  ( $r = 0.99934$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	30.124194	120.5	N/A	N/A
50.00000	1 of 1	59.354635	118.7	N/A	N/A
100.00000	1 of 1	100.374593	100.4	N/A	N/A
250.00000	1 of 1	214.159880	85.7	N/A	N/A
500.00000	1 of 1	414.748101	83.0	N/A	N/A
1000.00000	1 of 1	945.329057	94.5	N/A	N/A
2500.00000	1 of 1	2354.234208	94.2	N/A	N/A
10000.00000	1 of 1	10314.027698	103.1	N/A	N/A
20000.00000	1 of 1	19992.647633	100.0	N/A	N/A

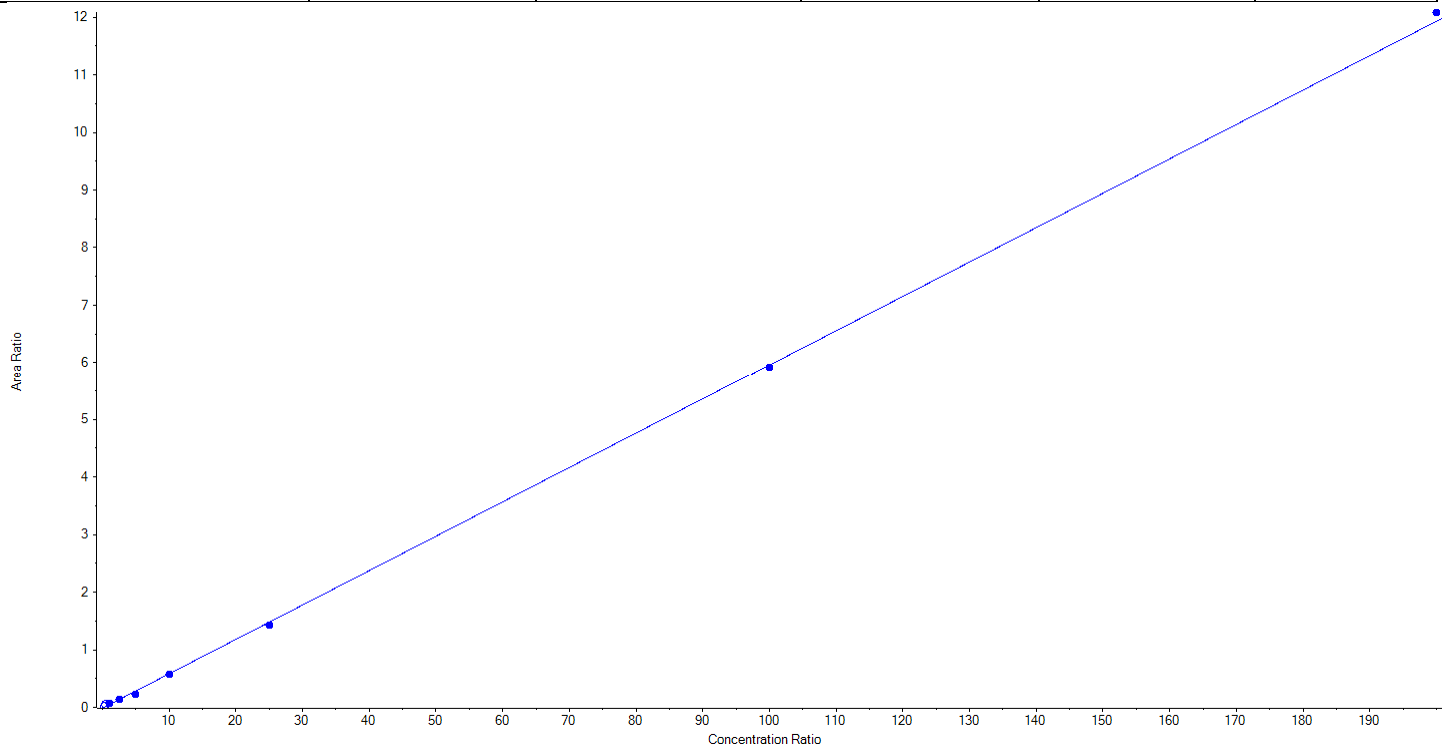


**Analyte Name:** PFOA\_2  
**Internal Standard:** 13C8-PFOA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.05972 x + -0.01364$  ( $r = 0.99945$ ) (weighting:  $1 / x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	125.427924	125.4	N/A	N/A
250.00000	1 of 1	248.569421	99.4	N/A	N/A
500.00000	1 of 1	398.190136	79.6	N/A	N/A
1000.00000	1 of 1	987.151776	98.7	N/A	N/A
2500.00000	1 of 1	2404.994229	96.2	N/A	N/A
10000.00000	1 of 1	9932.600203	99.3	N/A	N/A
20000.00000	1 of 1	20253.066310	101.3	N/A	N/A

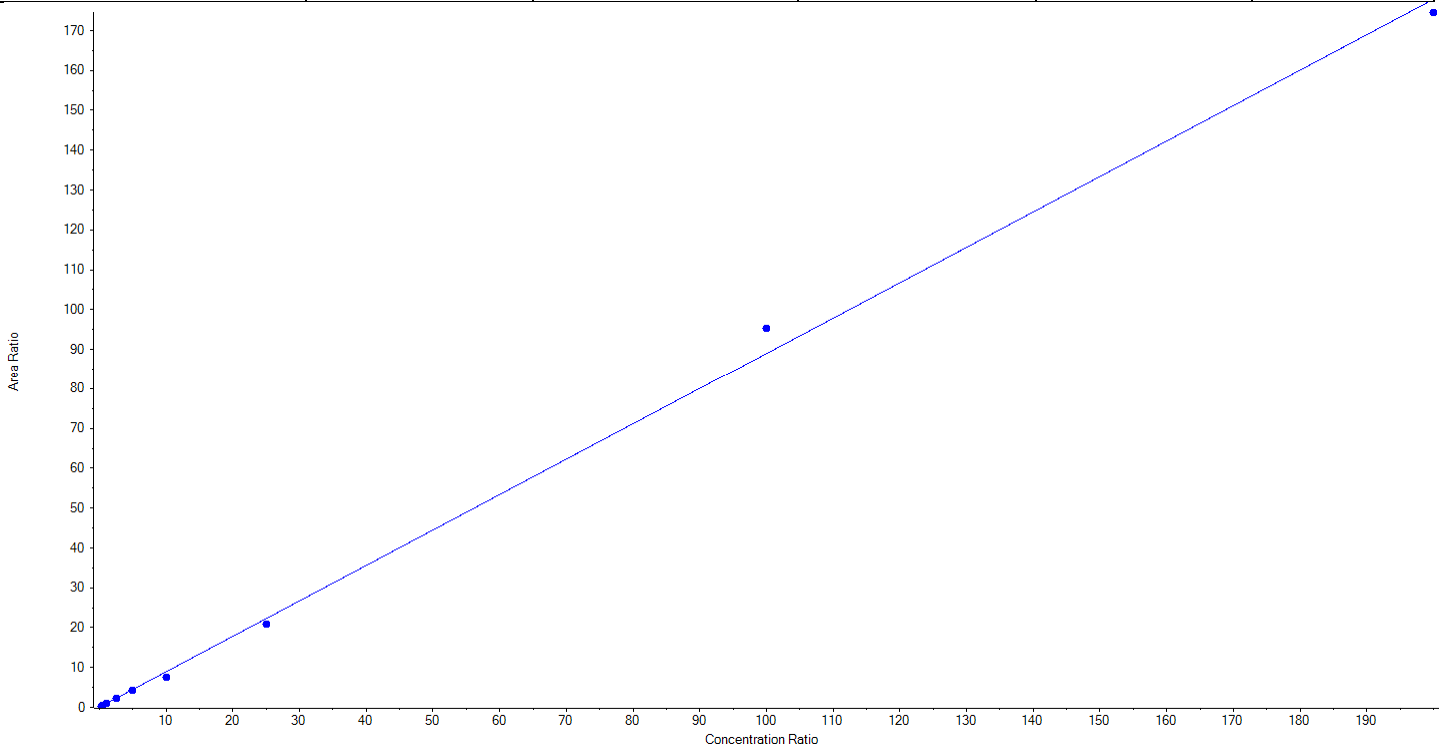


**Analyte Name:** PFNA\_1  
**Internal Standard:** 13C9-PFNA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.88897x + 0.05190$  ( $r = 0.99865$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	31.135941	124.5	N/A	N/A
50.00000	1 of 1	51.831255	103.7	N/A	N/A
100.00000	1 of 1	95.441458	95.4	N/A	N/A
250.00000	1 of 1	246.912526	98.8	N/A	N/A
500.00000	1 of 1	464.101080	92.8	N/A	N/A
1000.00000	1 of 1	854.249474	85.4	N/A	N/A
2500.00000	1 of 1	2355.097628	94.2	N/A	N/A
10000.00000	1 of 1	10701.407079	107.0	N/A	N/A
20000.00000	1 of 1	19624.823558	98.1	N/A	N/A



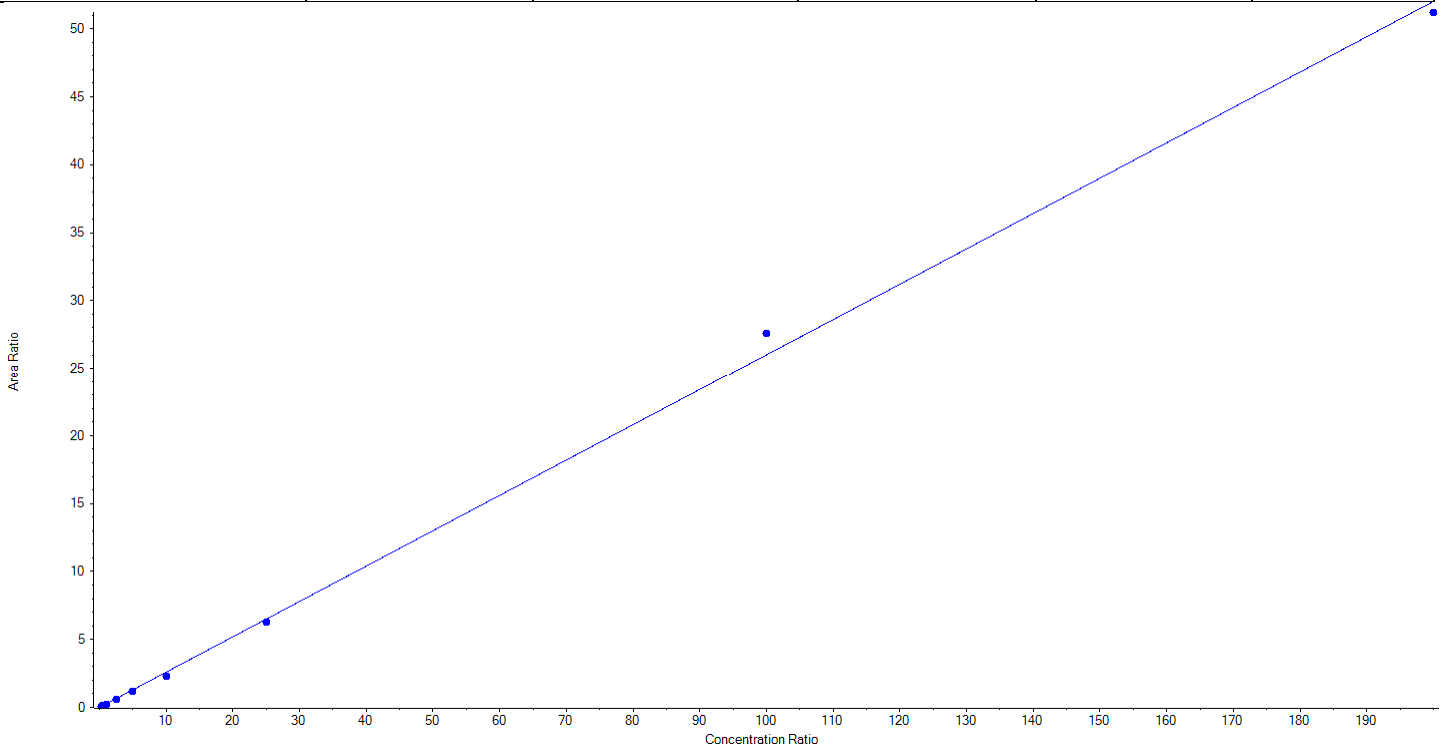


**Analyte Name:** PFNA\_2  
**Internal Standard:** 13C9-PFNA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.26013x + -0.00578$  ( $r = 0.99897$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	30.853910	123.4	N/A	N/A
50.00000	1 of 1	54.312522	108.6	N/A	N/A
100.00000	1 of 1	95.663390	95.7	N/A	N/A
250.00000	1 of 1	233.271399	93.3	N/A	N/A
500.00000	1 of 1	458.661296	91.7	N/A	N/A
1000.00000	1 of 1	868.059048	86.8	N/A	N/A
2500.00000	1 of 1	2400.942236	96.0	N/A	N/A
10000.00000	1 of 1	10599.066368	106.0	N/A	N/A
20000.00000	1 of 1	19684.169831	98.4	N/A	N/A

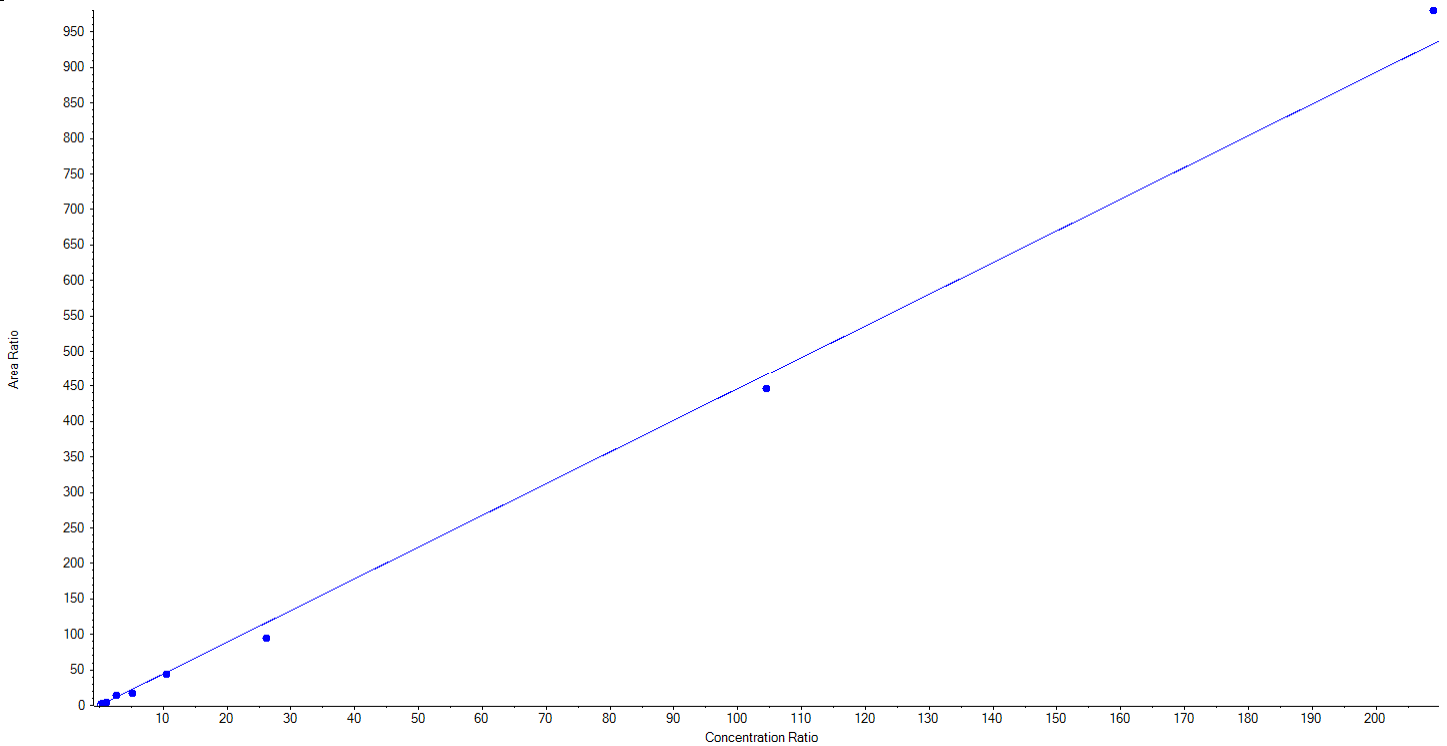


**Analyte Name:** PFOS\_1  
**Internal Standard:** 13C8-PFOS

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 4.46854 x + -0.32806$  ( $r = 0.99701$ ) (weighting:  $1 / x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	61.259255	122.5	N/A	N/A
100.00000	1 of 1	106.671885	106.7	N/A	N/A
250.00000	1 of 1	294.562971	117.8	N/A	N/A
500.00000	1 of 1	373.378352	74.7	N/A	N/A
1000.00000	1 of 1	958.421303	95.8	N/A	N/A
2500.00000	1 of 1	2047.108968	81.9	N/A	N/A
10000.00000	1 of 1	9557.854024	95.6	N/A	N/A
20000.00000	1 of 1	21000.743243	105.0	N/A	N/A

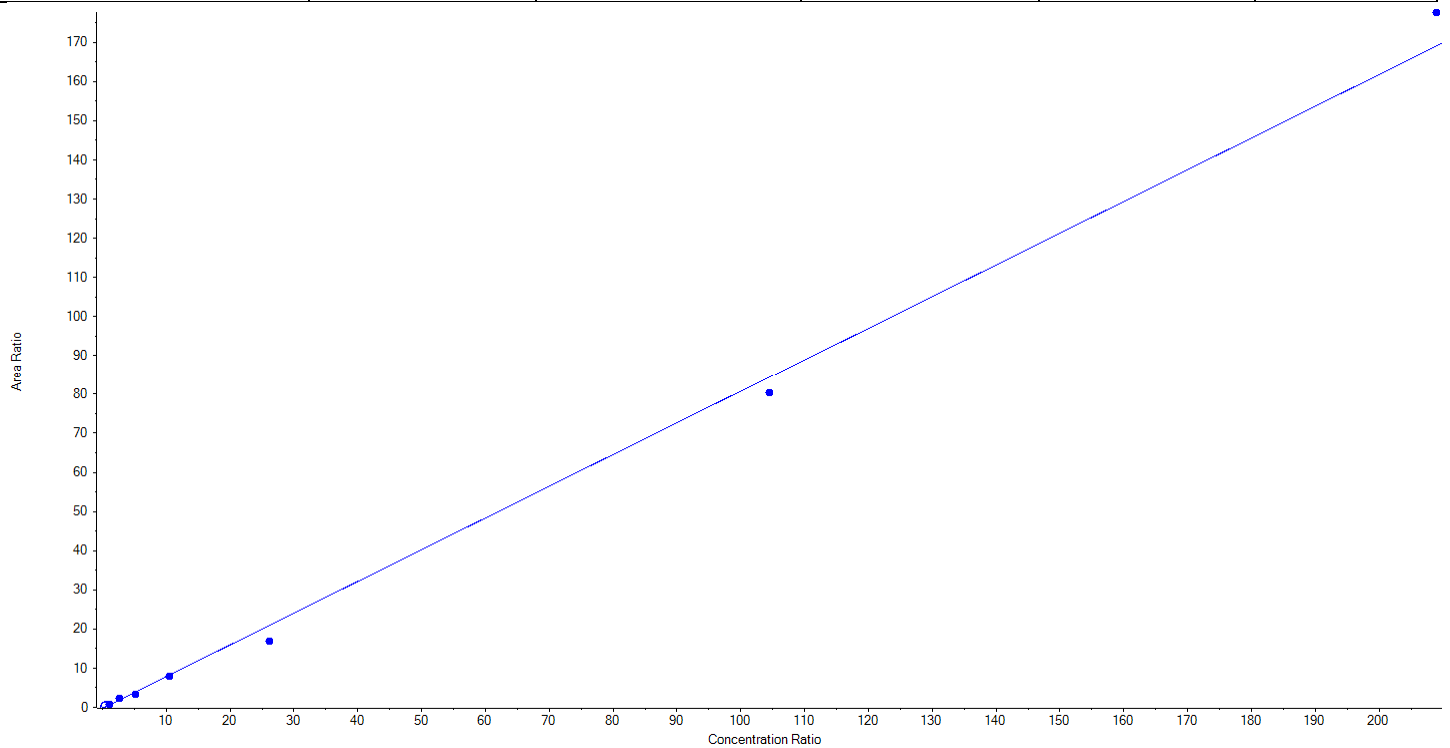


**Analyte Name:** PFOS\_2  
**Internal Standard:** 13C8-PFOS

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.81016x + -0.25109$  ( $r = 0.99702$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	117.551175	117.6	N/A	N/A
250.00000	1 of 1	295.943528	118.4	N/A	N/A
500.00000	1 of 1	437.015734	87.4	N/A	N/A
1000.00000	1 of 1	958.233277	95.8	N/A	N/A
2500.00000	1 of 1	2015.638374	80.6	N/A	N/A
10000.00000	1 of 1	9518.262901	95.2	N/A	N/A
20000.00000	1 of 1	21007.355010	105.0	N/A	N/A

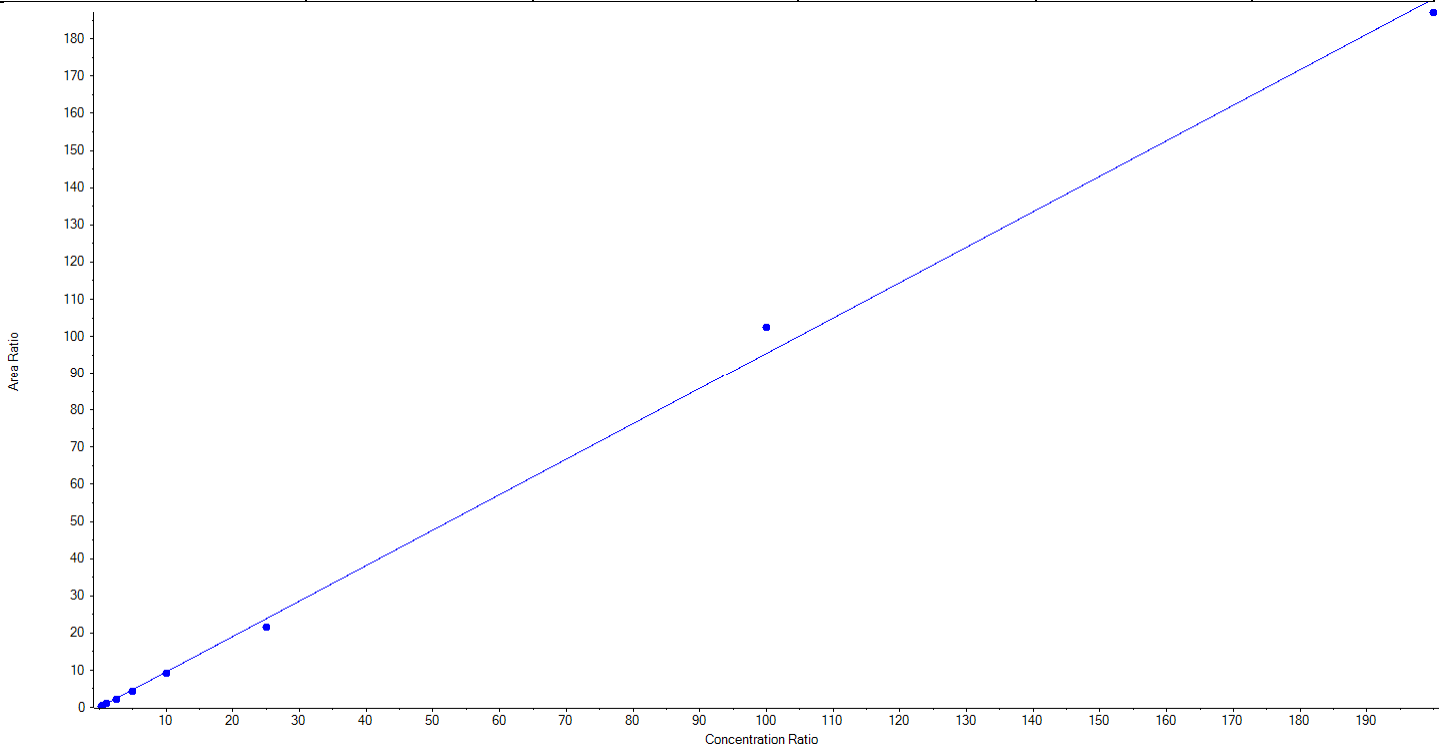


**Analyte Name:** PFDA\_1  
**Internal Standard:** 13C6-PFDA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.95404 x + -0.01354$  ( $r = 0.99858$ ) (weighting:  $1 / x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	28.040609	112.2	N/A	N/A
50.00000	1 of 1	56.820399	113.6	N/A	N/A
100.00000	1 of 1	100.432158	100.4	N/A	N/A
250.00000	1 of 1	236.632413	94.7	N/A	N/A
500.00000	1 of 1	440.166212	88.0	N/A	N/A
1000.00000	1 of 1	949.920008	95.0	N/A	N/A
2500.00000	1 of 1	2267.160024	90.7	N/A	N/A
10000.00000	1 of 1	10734.171405	107.3	N/A	N/A
20000.00000	1 of 1	19611.656773	98.1	N/A	N/A

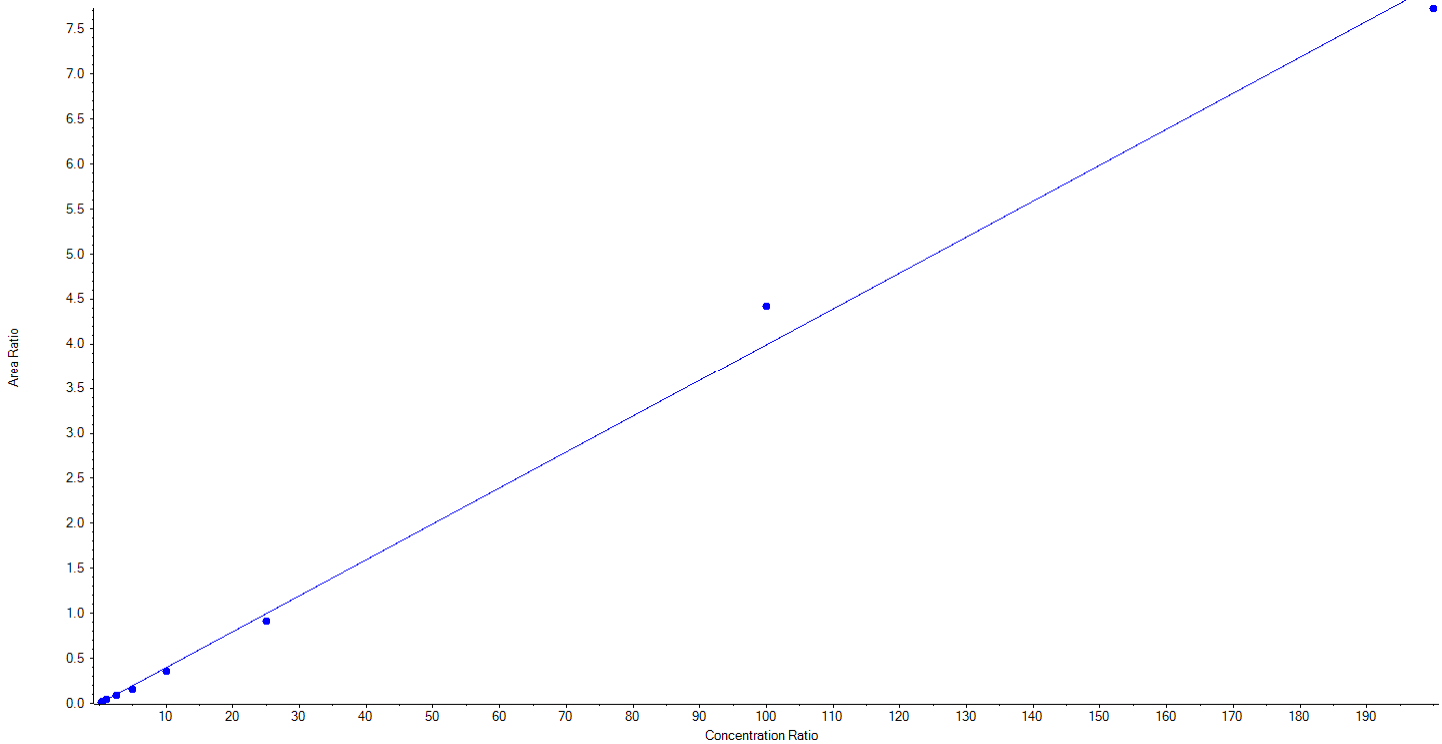


**Analyte Name:** PFDA\_2  
**Internal Standard:** 13C6-PFDA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.03994x + -0.00220$  ( $r = 0.99711$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	29.579582	118.3	N/A	N/A
50.00000	1 of 1	51.481084	103.0	N/A	N/A
100.00000	1 of 1	119.405501	119.4	N/A	N/A
250.00000	1 of 1	230.976769	92.4	N/A	N/A
500.00000	1 of 1	393.053118	78.6	N/A	N/A
1000.00000	1 of 1	894.428545	89.4	N/A	N/A
2500.00000	1 of 1	2285.723319	91.4	N/A	N/A
10000.00000	1 of 1	11067.824617	110.7	N/A	N/A
20000.00000	1 of 1	19352.527464	96.8	N/A	N/A

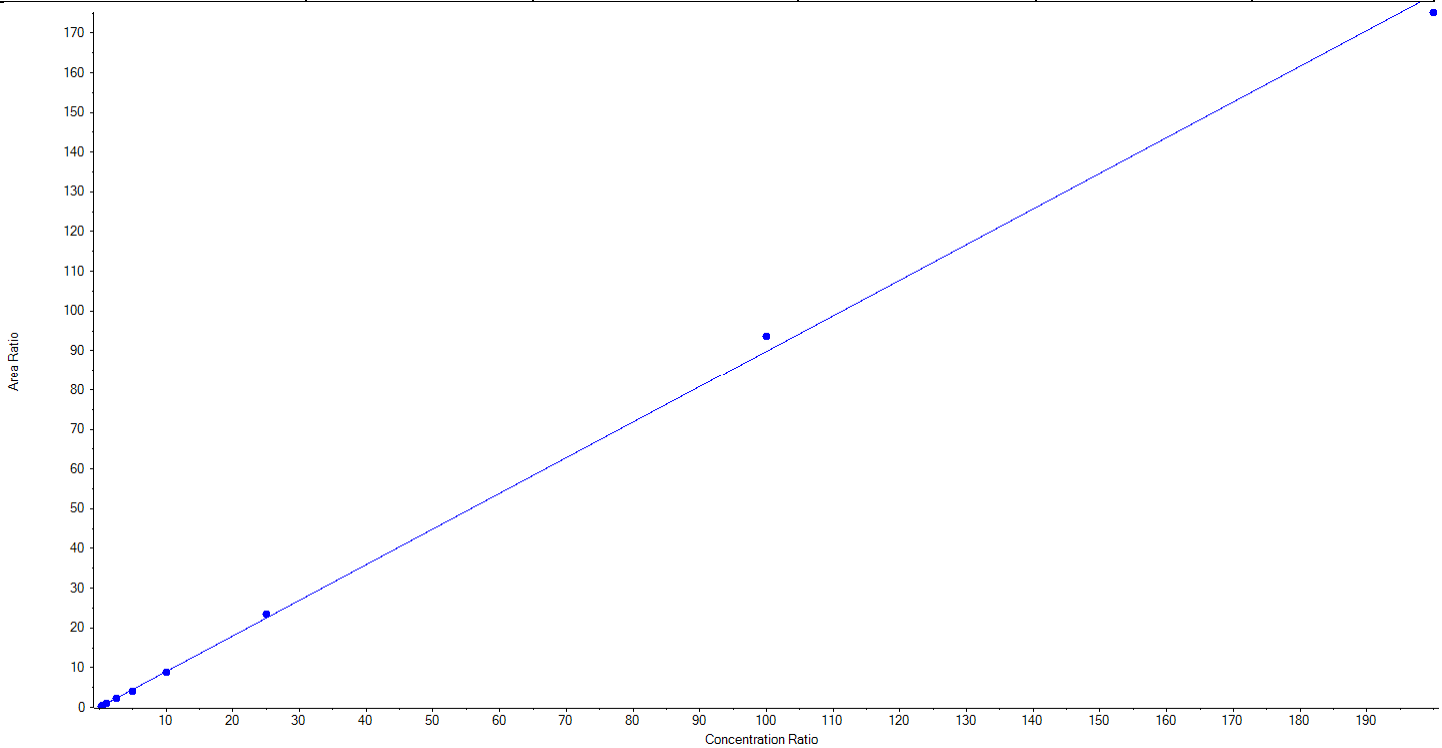


**Analyte Name:** PFUnA\_1  
**Internal Standard:** 13C7-PFUnA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.89775x + 0.02798$  ( $r = 0.99934$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	27.809396	111.2	N/A	N/A
50.00000	1 of 1	46.031071	92.1	N/A	N/A
100.00000	1 of 1	105.355956	105.4	N/A	N/A
250.00000	1 of 1	238.674628	95.5	N/A	N/A
500.00000	1 of 1	450.845153	90.2	N/A	N/A
1000.00000	1 of 1	988.413322	98.8	N/A	N/A
2500.00000	1 of 1	2623.811311	105.0	N/A	N/A
10000.00000	1 of 1	10438.270677	104.4	N/A	N/A
20000.00000	1 of 1	19505.788484	97.5	N/A	N/A

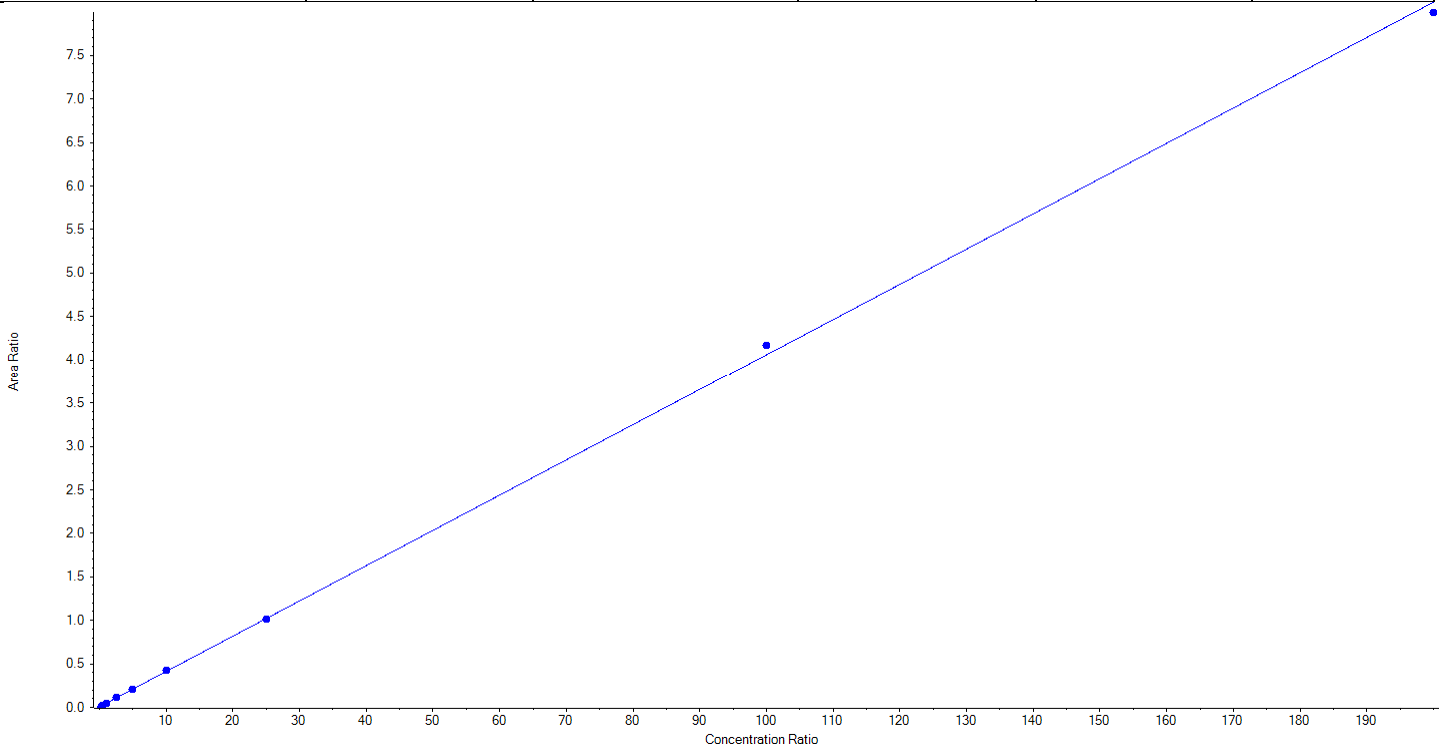


**Analyte Name:** PFUnA\_2  
**Internal Standard:** 13C7-PFUnA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.04052x + 0.00764$  ( $r = 0.99975$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	23.494341	94.0	N/A	N/A
50.00000	1 of 1	50.191532	100.4	N/A	N/A
100.00000	1 of 1	94.982408	95.0	N/A	N/A
250.00000	1 of 1	273.739324	109.5	N/A	N/A
500.00000	1 of 1	485.919754	97.2	N/A	N/A
1000.00000	1 of 1	1036.888823	103.7	N/A	N/A
2500.00000	1 of 1	2473.998299	99.0	N/A	N/A
10000.00000	1 of 1	10279.948544	102.8	N/A	N/A
20000.00000	1 of 1	19705.836976	98.5	N/A	N/A



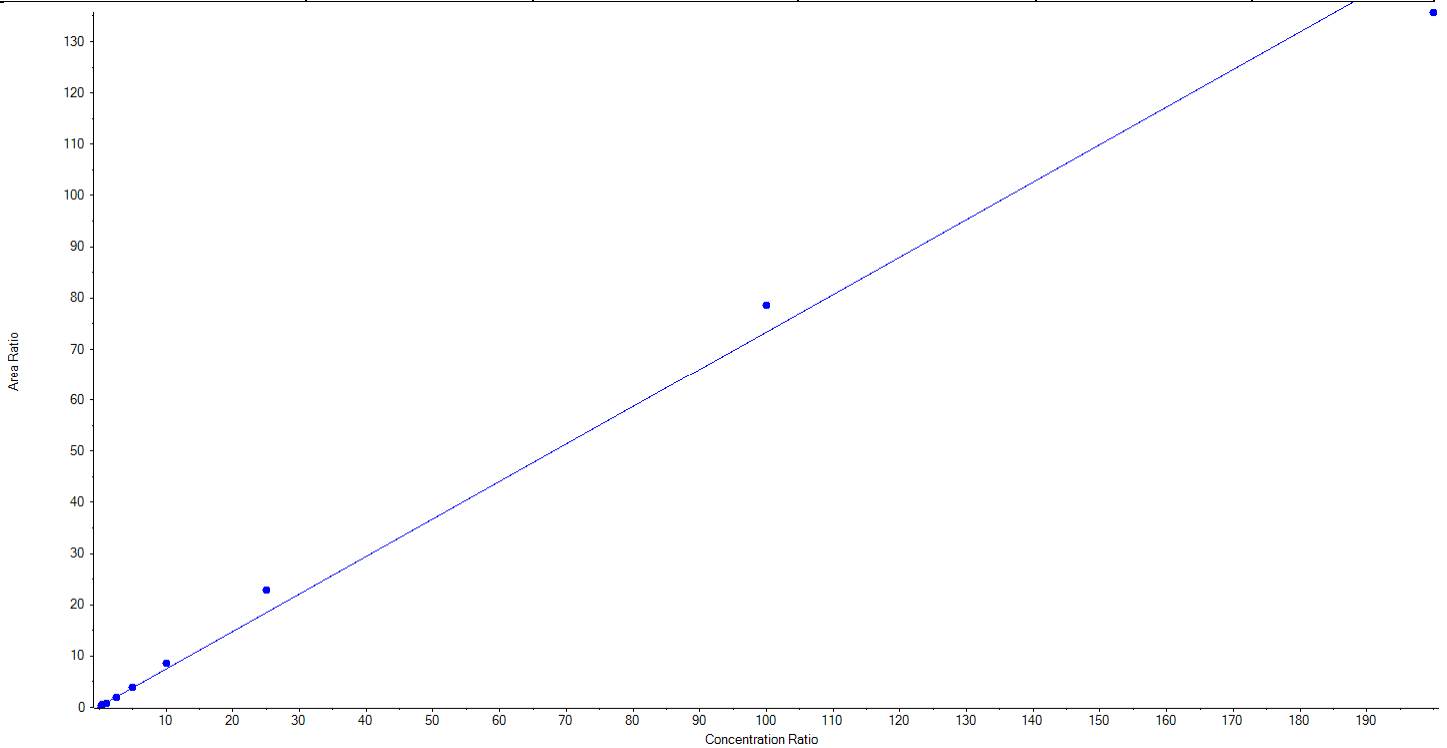


**Analyte Name:** PFDaA\_1  
**Internal Standard:** 13C2-PFDaA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.73180x + 0.16805$  ( $r = 0.99494$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	18.585863	74.3	N/A	N/A
50.00000	1 of 1	43.934838	87.9	N/A	N/A
100.00000	1 of 1	96.867204	96.9	N/A	N/A
250.00000	1 of 1	241.211483	96.5	N/A	N/A
500.00000	1 of 1	522.164732	104.4	N/A	N/A
1000.00000	1 of 1	1157.206023	115.7	N/A	N/A
2500.00000	1 of 1	3113.816575	124.6	N/A	N/A
10000.00000	1 of 1	10714.559444	107.2	N/A	N/A
20000.00000	1 of 1	18516.653838	92.6	N/A	N/A

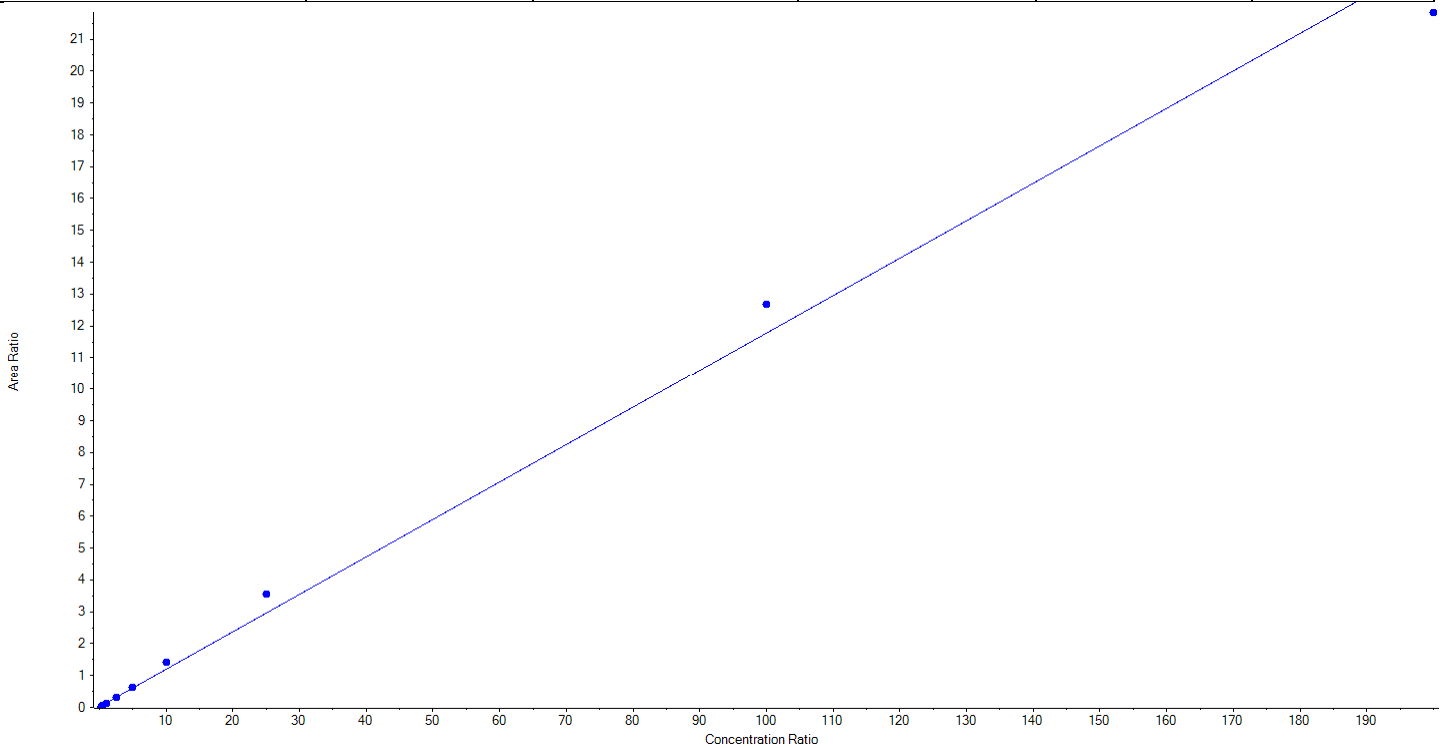


**Analyte Name:** PFDaA\_2  
**Internal Standard:** 13C2-PFDaA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.11755x + 0.02201$  ( $r = 0.99555$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	20.789022	83.2	N/A	N/A
50.00000	1 of 1	41.751139	83.5	N/A	N/A
100.00000	1 of 1	94.252859	94.3	N/A	N/A
250.00000	1 of 1	238.773328	95.5	N/A	N/A
500.00000	1 of 1	526.139502	105.2	N/A	N/A
1000.00000	1 of 1	1178.790809	117.9	N/A	N/A
2500.00000	1 of 1	3000.505564	120.0	N/A	N/A
10000.00000	1 of 1	10766.450030	107.7	N/A	N/A
20000.00000	1 of 1	18557.547746	92.8	N/A	N/A

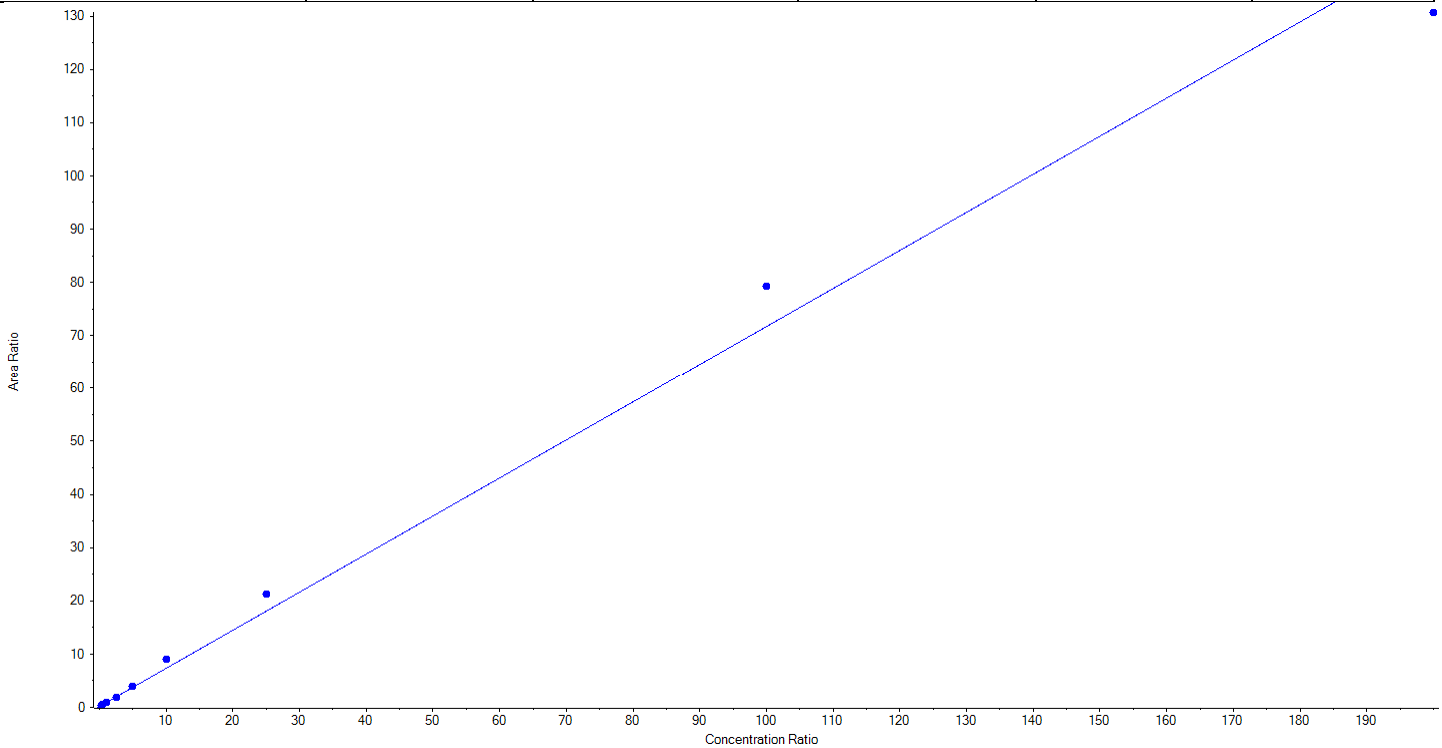


**Analyte Name:** PFTTrDA\_1  
**Internal Standard:** 13C2-PFTTeDA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.71512x + 0.18881$  ( $r = 0.99396$ ) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	18.037092	72.2	N/A	N/A
50.00000	1 of 1	41.435891	82.9	N/A	N/A
100.00000	1 of 1	98.499120	98.5	N/A	N/A
250.00000	1 of 1	245.482933	98.2	N/A	N/A
500.00000	1 of 1	526.942491	105.4	N/A	N/A
1000.00000	1 of 1	1228.445359	122.8	N/A	N/A
2500.00000	1 of 1	2954.091521	118.2	N/A	N/A
10000.00000	1 of 1	11066.106802	110.7	N/A	N/A
20000.00000	1 of 1	18245.958790	91.2	N/A	N/A

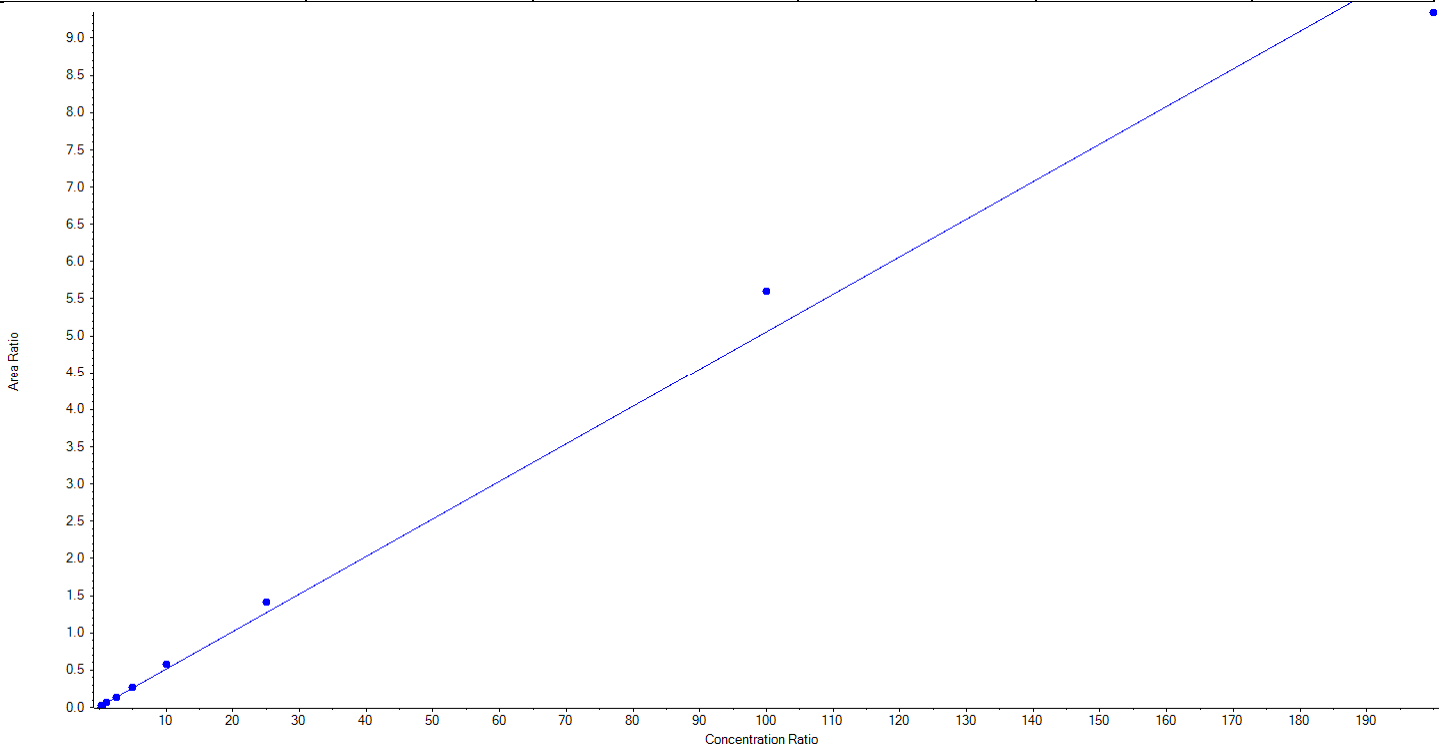


**Analyte Name:** PFTTrDA\_2  
**Internal Standard:** 13C2-PFTeDA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.05046x + 0.00925$  (r = 0.99572) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	24.482066	97.9	N/A	N/A
50.00000	1 of 1	35.219009	70.4	N/A	N/A
100.00000	1 of 1	103.876978	103.9	N/A	N/A
250.00000	1 of 1	244.481018	97.8	N/A	N/A
500.00000	1 of 1	506.816096	101.4	N/A	N/A
1000.00000	1 of 1	1135.695566	113.6	N/A	N/A
2500.00000	1 of 1	2792.612745	111.7	N/A	N/A
10000.00000	1 of 1	11083.593179	110.8	N/A	N/A
20000.00000	1 of 1	18498.223344	92.5	N/A	N/A

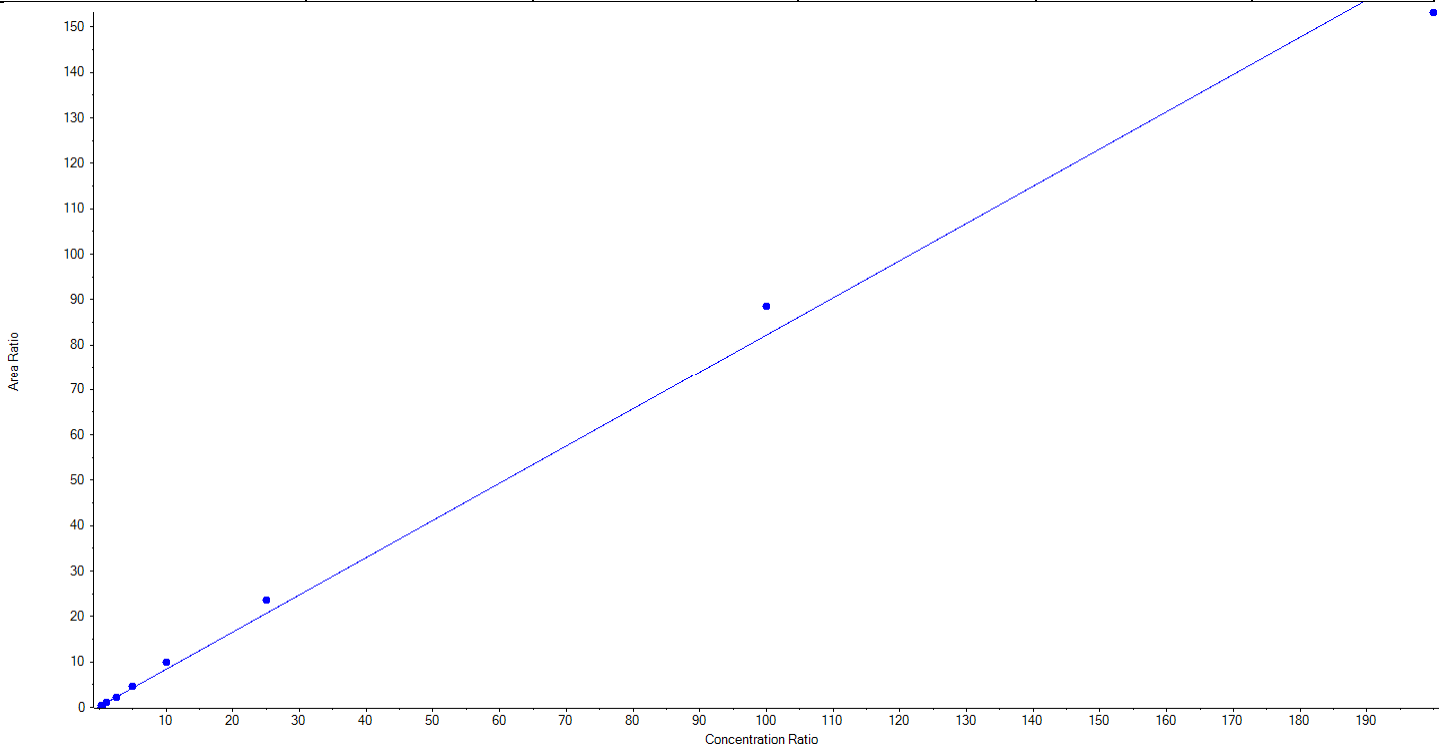


**Analyte Name:** PFTeDA\_1  
**Internal Standard:** 13C2-PFTeDA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.81976x + 0.18966$  ( $r = 0.99638$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	20.698509	82.8	N/A	N/A
50.00000	1 of 1	37.374163	74.8	N/A	N/A
100.00000	1 of 1	100.483978	100.5	N/A	N/A
250.00000	1 of 1	253.641545	101.5	N/A	N/A
500.00000	1 of 1	530.011524	106.0	N/A	N/A
1000.00000	1 of 1	1190.575893	119.1	N/A	N/A
2500.00000	1 of 1	2861.500365	114.5	N/A	N/A
10000.00000	1 of 1	10768.712330	107.7	N/A	N/A
20000.00000	1 of 1	18662.001693	93.3	N/A	N/A

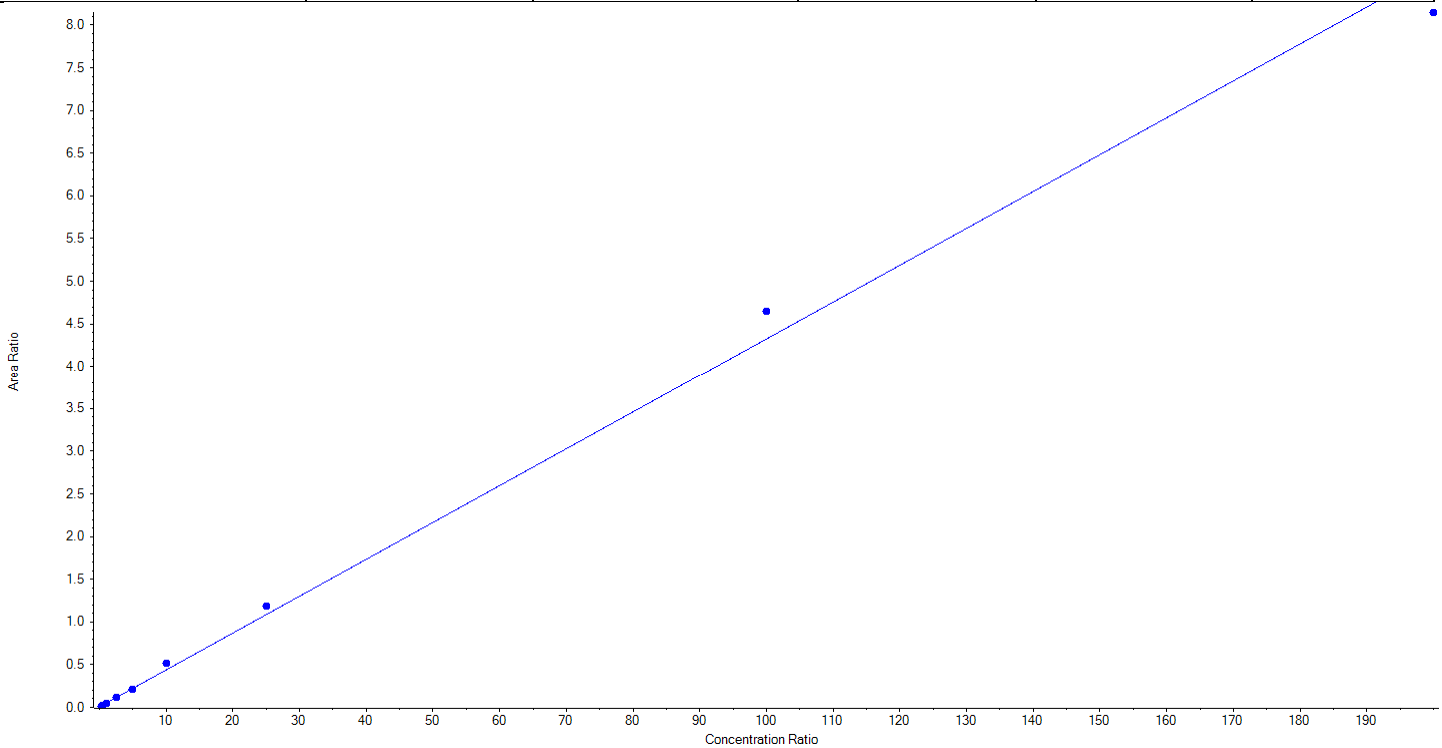


**Analyte Name:** PFTeDA\_2  
**Internal Standard:** 13C2-PFTeDA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.04318x + 0.00691$  ( $r = 0.99730$ ) (weighting:  $1/x$ )

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	23.171072	92.7	N/A	N/A
50.00000	1 of 1	36.229290	72.5	N/A	N/A
100.00000	1 of 1	104.692473	104.7	N/A	N/A
250.00000	1 of 1	265.266327	106.1	N/A	N/A
500.00000	1 of 1	477.858637	95.6	N/A	N/A
1000.00000	1 of 1	1172.163483	117.2	N/A	N/A
2500.00000	1 of 1	2735.811572	109.4	N/A	N/A
10000.00000	1 of 1	10757.710831	107.6	N/A	N/A
20000.00000	1 of 1	18852.096314	94.3	N/A	N/A

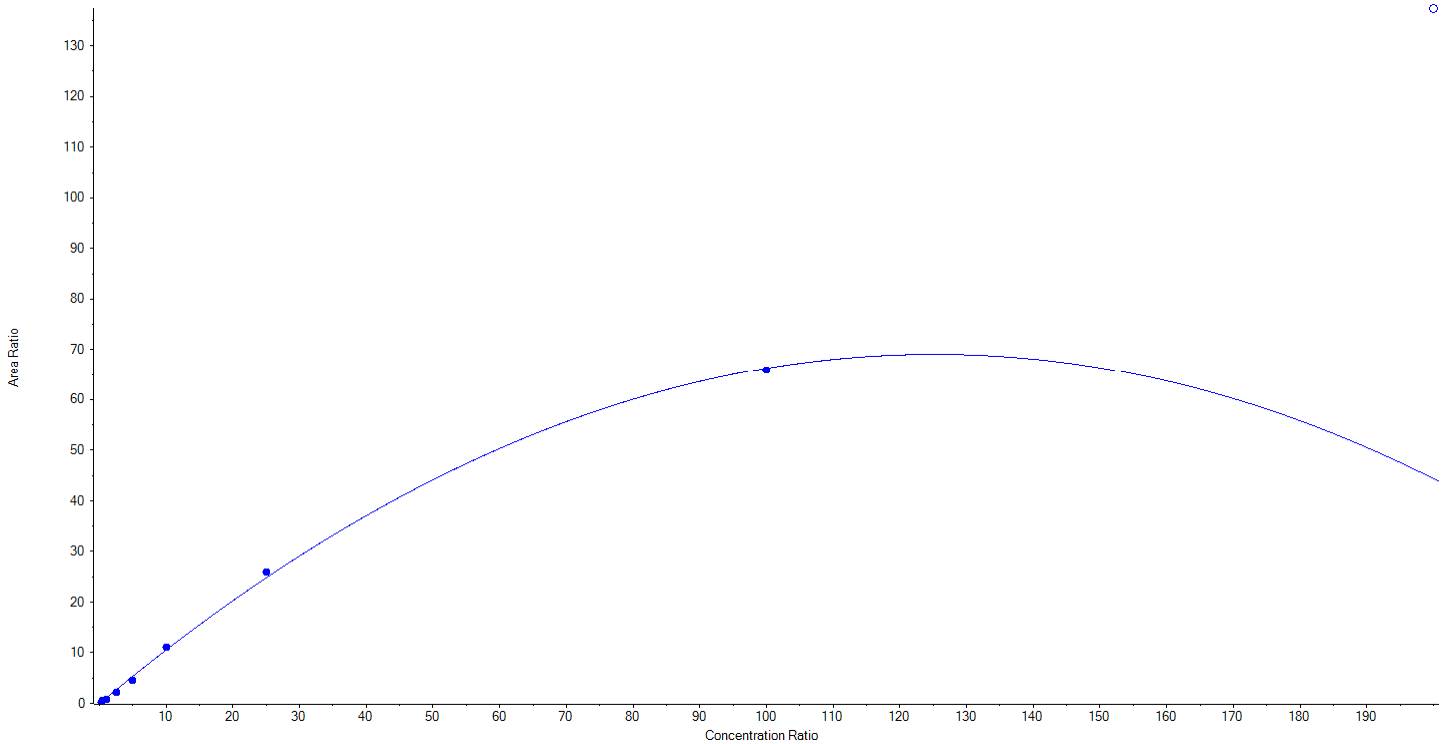


**Analyte Name:** NMeFOSAA\_1  
**Internal Standard:** d3-MeFOSAA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = -0.00441 x^2 + 1.10454 x + -0.06114$  (r = 0.99784) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	32.169726	128.7	N/A	N/A
50.00000	1 of 1	55.645104	111.3	N/A	N/A
100.00000	1 of 1	82.449873	82.5	N/A	N/A
250.00000	1 of 1	211.355806	84.5	N/A	N/A
500.00000	1 of 1	420.344353	84.1	N/A </td <td>N/A</td>	N/A
1000.00000	1 of 1	1046.700488	104.7	N/A	N/A
2500.00000	1 of 1	2627.097605	105.1	N/A	N/A
10000.00000	1 of 1	9880.284792	98.8	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A



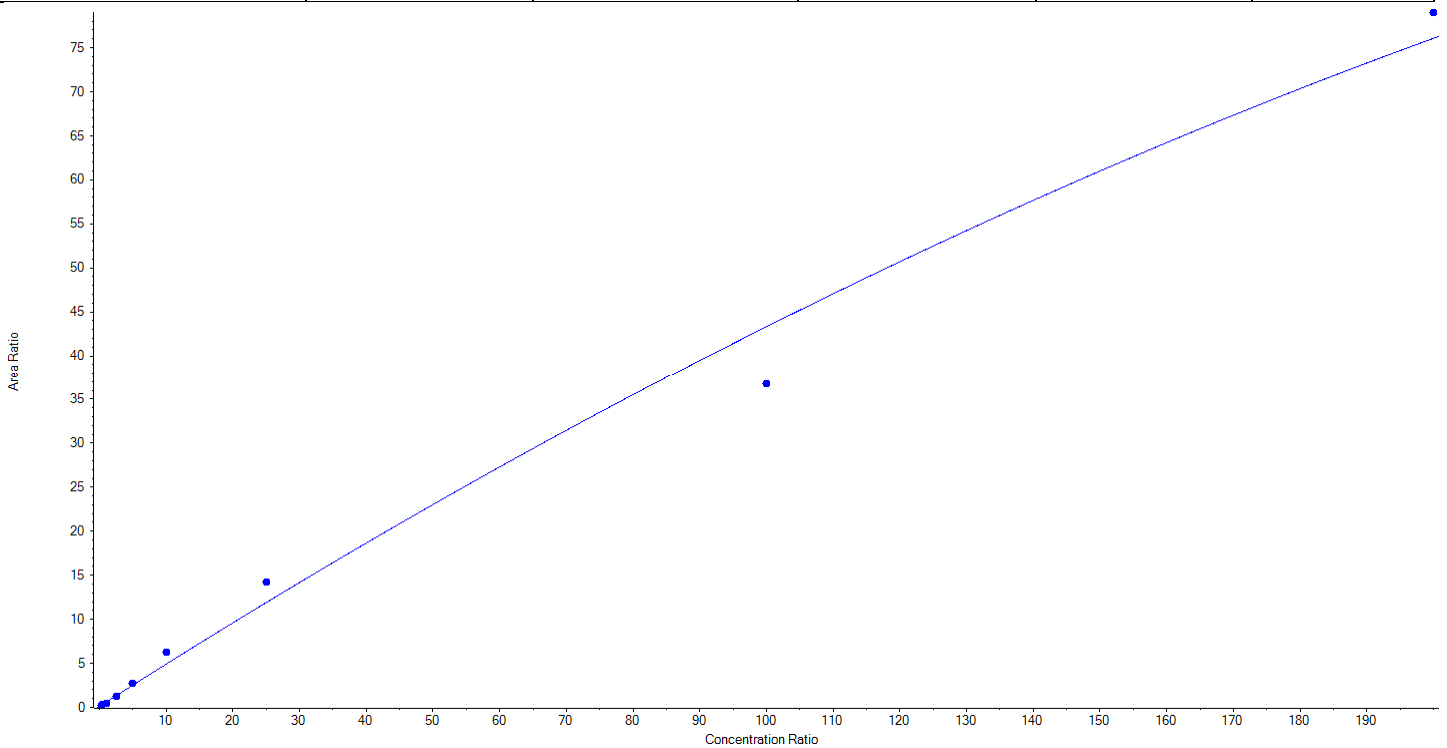


**Analyte Name:** NMeFOSAA\_2  
**Internal Standard:** d3-MeFOSAA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = -5.23136e-4 x^2 + 0.48430 x + 0.12252$  (r = 0.99174) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	27.650834	110.6	N/A	N/A
50.00000	1 of 1	40.640841	81.3	N/A	N/A
100.00000	1 of 1	70.096948	70.1	N/A	N/A
250.00000	1 of 1	229.533991	91.8	N/A	N/A
500.00000	1 of 1	546.889443	109.4	N/A	N/A
1000.00000	1 of 1	1285.828032	128.6	N/A	N/A
2500.00000	1 of 1	3019.444766	120.8	N/A	N/A
10000.00000	1 of 1	8302.470284	83.0	N/A	N/A
20000.00000	1 of 1	21088.210110	105.4	N/A	N/A

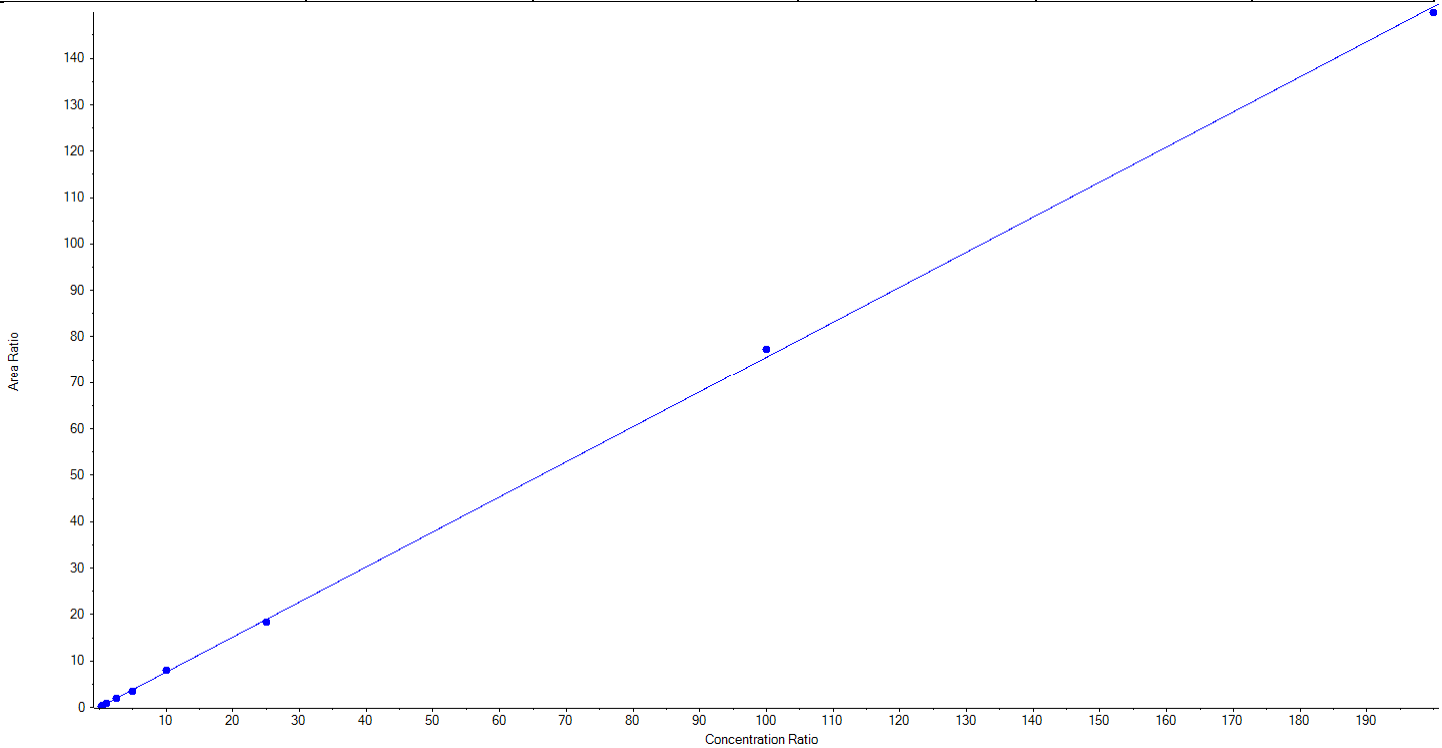


**Analyte Name:** NEtFOSAA\_1  
**Internal Standard:** d5-EtFOSAA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.75542x + 0.03121$  (r = 0.99979) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	25.089843	100.4	N/A	N/A
50.00000	1 of 1	50.987744	102.0	N/A	N/A
100.00000	1 of 1	105.048487	105.1	N/A	N/A
250.00000	1 of 1	241.694137	96.7	N/A	N/A
500.00000	1 of 1	462.018768	92.4	N/A	N/A
1000.00000	1 of 1	1047.054598	104.7	N/A	N/A
2500.00000	1 of 1	2435.103646	97.4	N/A	N/A
10000.00000	1 of 1	10227.125206	102.3	N/A	N/A
20000.00000	1 of 1	19830.877572	99.2	N/A	N/A

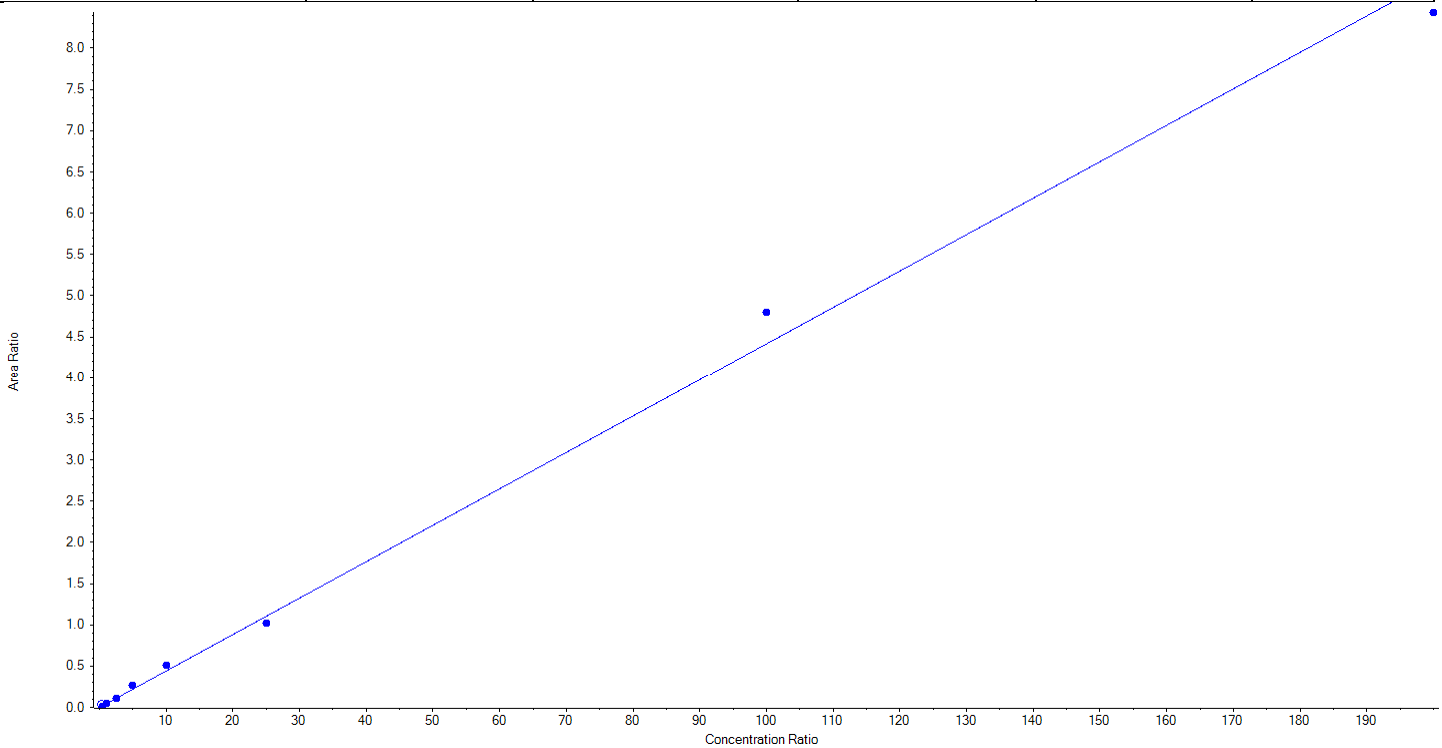


**Analyte Name:** NEtFOSAA\_2  
**Internal Standard:** d5-EtFOSAA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.04416x + -5.94973e-4$  (r = 0.99724) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	35.851083	71.7	N/A	N/A
100.00000	1 of 1	100.927486	100.9	N/A	N/A
250.00000	1 of 1	237.021437	94.8	N/A	N/A
500.00000	1 of 1	606.268765	121.3	N/A	N/A
1000.00000	1 of 1	1148.398097	114.8	N/A	N/A
2500.00000	1 of 1	2307.175978	92.3	N/A	N/A
10000.00000	1 of 1	10871.876953	108.7	N/A	N/A
20000.00000	1 of 1	19092.480200	95.5	N/A	N/A

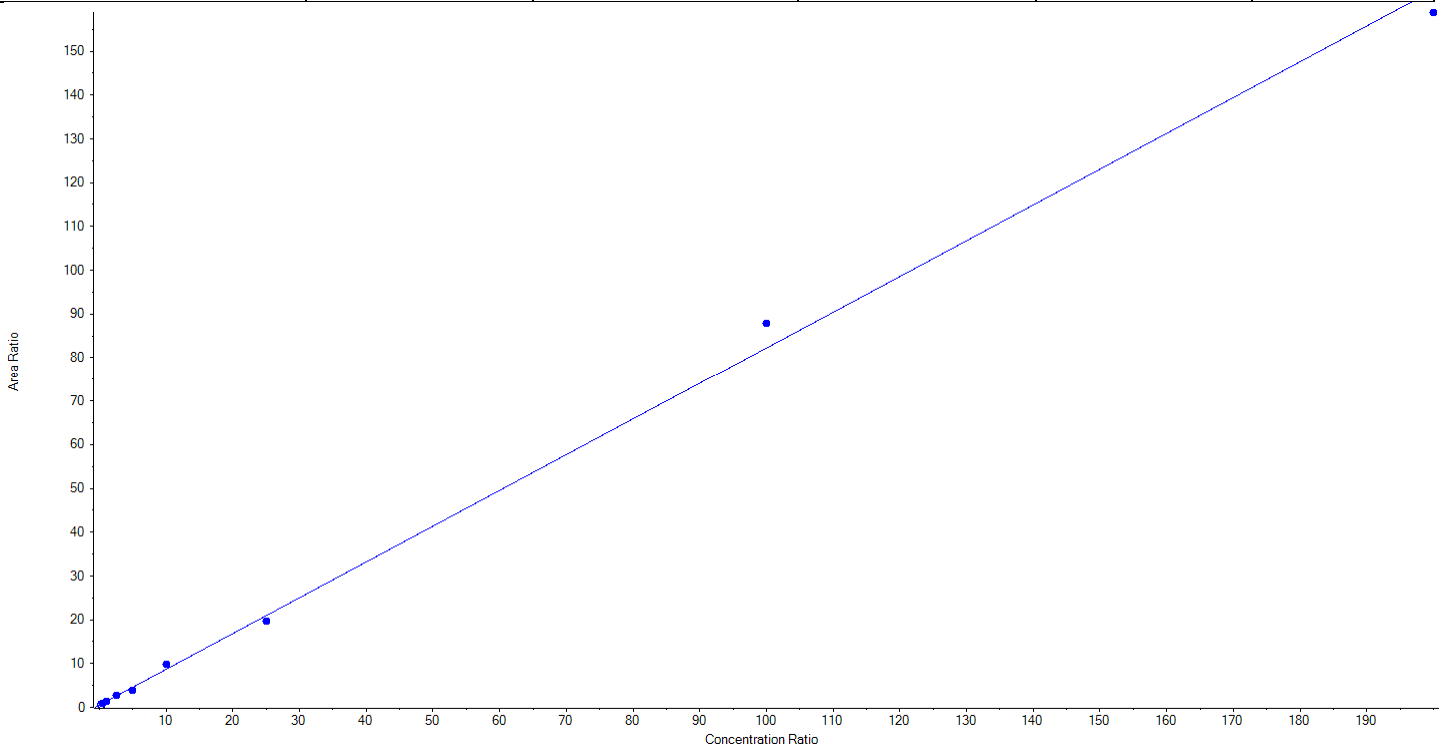


**Analyte Name:** PFBA  
**Internal Standard:** 13C4-PFBA

<b>Data File</b>	18-0216.wiff	<b>Result Table</b>	18-0216_BASE
<b>Acquisition Date</b>	3/29/2018 7:35:56 PM	<b>Algorithm Used</b>	MQ4
<b>Acquisition Method</b>	SCIEX_1.dam	<b>Instrument Name</b>	QTRAP 5500
<b>Project</b>	N/A		

Regression Equation:  $y = 0.81707 x + 0.52307$  (r = 0.99836) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	44.113279	88.2	N/A	N/A
100.00000	1 of 1	112.419718	112.4	N/A	N/A
250.00000	1 of 1	258.858121	103.5	N/A	N/A
500.00000	1 of 1	423.629329	84.7	N/A	N/A
1000.00000	1 of 1	1129.039886	112.9	N/A	N/A
2500.00000	1 of 1	2357.771243	94.3	N/A	N/A
10000.00000	1 of 1	10699.785937	107.0	N/A	N/A
20000.00000	1 of 1	19374.382488	96.9	N/A	N/A



DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC	RES_META_ID
SOUTHEAST	GULFPORT_NCBC	18-0207	SITE 00006	SITE 00006	GPT-6-9	Monitoring well	888661.1458	318084.1687	N6247016D9008	JM08	TETRA TECH, INC.	06GW09031718	Ground water	Normal (Regular)	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00
SOUTHEAST	GULFPORT_NCBC	18-0207	SITE 00006	SITE 00006	GPT-6-8	Monitoring well	888808.8527	317970.4662	N6247016D9008	JM08	TETRA TECH, INC.	06GW08031718	Ground water	Normal (Regular)	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00
SOUTHEAST	GULFPORT_NCBC	18-0207	SITE 00006	SITE 00006	GPT-6-4	Monitoring well	888807.7901	318074.6049	N6247016D9008	JM08	TETRA TECH, INC.	06GW04031718-D	Ground water	Field duplicate	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00
SOUTHEAST	GULFPORT_NCBC	18-0207	SITE 00006	SITE 00006	GPT-6-4	Monitoring well	888807.7901	318074.6049	N6247016D9008	JM08	TETRA TECH, INC.	06GW04031718	Ground water	Normal (Regular)	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00
SOUTHEAST	GULFPORT_NCBC	18-0207	SITE 00006	SITE 00006	GPT-6-6	Monitoring well	888774.8483	318007.6586	N6247016D9008	JM08	TETRA TECH, INC.	06GW06031718	Ground water	Normal (Regular)	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00
SOUTHEAST	GULFPORT_NCBC	18-0207	SITE 00006	SITE 00006	GPT-6-3	Monitoring well	888757.846	318072.4797	N6247016D9008	JM08	TETRA TECH, INC.	06GW03031718	Ground water	Normal (Regular)	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00
SOUTHEAST	GULFPORT_NCBC	18-0207	SITE 00006	SITE 00006	GPT-6-14	Monitoring well	888784.09	318138.17	N6247016D9008	JM08	TETRA TECH, INC.	06GW14031718	Ground water	Normal (Regular)	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00
SOUTHEAST	GULFPORT_NCBC	18-0207	SITE 00006	SITE 00006	GPT-6-16	Monitoring well	888657.74	317944.41	N6247016D9008	JM08	TETRA TECH, INC.	06GW16031718	Ground water	Normal (Regular)	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00
SOUTHEAST	GULFPORT_NCBC	18-0207	SITE 00006	SITE 00006	GPT-6-15	Monitoring well	888775.56	317913.47	N6247016D9008	JM08	TETRA TECH, INC.	06GW15031718	Ground water	Normal (Regular)	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00