



**Off-Base Drinking Water Sample Results,
Level 2 Laboratory Report, Level 4 Laboratory Report,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Figure, SDG J17241-1**

*Naval Air Station Oceana
Virginia Beach, Virginia*

July 2019

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

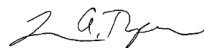
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: 320-17241-1
TestAmerica SDG: CTO WE7G PFC Sampling
Client Project/Site: CTO WE7G PFC Sampling

For:
CH2M Hill, Inc.
5701 Cleveland Street
Suite 200
Virginia Beach, Virginia 23462

Attn: Laurie George



Authorized for release by:
3/2/2016 8:51:40 AM

Laura Turpen, Project Manager I
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: CH2M Hill, Inc.
Project/Site: CTO WE7G PFC Sampling

TestAmerica Job ID: 320-17241-1
SDG: CTO WE7G PFC Sampling

Job ID: 320-17241-1

Laboratory: TestAmerica Sacramento

Narrative

CASE NARRATIVE

Client: CH2M Hill, Inc.

Project: CTO WE7G PFC Sampling

Report Number: 320-17241-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica West Sacramento attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

All parameters for which TestAmerica West Sacramento has certification were evaluated to the QSM specified reporting convention or to the client specified format if different from QSM. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

Receipt

The samples were received on 2/10/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.4° C.

Subcontract Work

PFC: This method was subcontracted to Maxxam Analytics Inc.. The subcontract laboratory certification is different from that of the facility issuing the final report. Any analytical or quality issues are noted in the subcontract portion of the report. DL/LOD/LOQ limits for Maxxam are included under "General Comments" in the subcontract report.

The DL/LOD/LOQ for sample OF-RW59-0216 (320-17241-6) were adjusted by a dilution factor of 10 for PFHxS and PFOS.

Certification Summary

Client: CH2M Hill, Inc.
Project/Site: CTO WE7G PFC Sampling

TestAmerica Job ID: 320-17241-1
SDG: CTO WE7G PFC Sampling

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-17
Oregon	NELAP	10	CA200005	01-29-17

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Sample Summary

Client: CH2M Hill, Inc.
Project/Site: CTO WE7G PFC Sampling

TestAmerica Job ID: 320-17241-1
SDG: CTO WE7G PFC Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-17241-1	OF-FB62-0216	Water	02/09/16 09:15	02/10/16 09:15
320-17241-2	OF-RW62-0216	Water	02/09/16 09:20	02/10/16 09:15
320-17241-3	OF-FB63-0216	Water	02/09/16 09:40	02/10/16 09:15
320-17241-4	OF-RW63-0216	Water	02/09/16 09:50	02/10/16 09:15
320-17241-5	OF-FB59-0216	Water	02/09/16 14:30	02/10/16 09:15
320-17241-6	OF-RW59-0216	Water	02/09/16 14:40	02/10/16 09:15
320-17241-7	OF-FB50-0216	Water	02/09/16 17:35	02/10/16 09:15
320-17241-8	OF-RW50-0216	Water	02/09/16 17:42	02/10/16 09:15
320-17241-9	OF-FB34-0216	Water	02/09/16 10:40	02/10/16 09:15
320-17241-10	OF-RW34-0216	Water	02/09/16 10:47	02/10/16 09:15
320-17241-11	OF-FB38-0216	Water	02/09/16 17:10	02/10/16 09:15
320-17241-12	OF-RW38-0216	Water	02/09/16 17:16	02/10/16 09:15



Your Project #: 320-17241
Your C.O.C. #: 283620

Attention:PFC Reporting Group

TestAmerica
Sacramento
880 Riverside Parkway
West Sacramento, CA
USA 95605

Report Date: 2016/03/02
Report #: R3914553
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B630790

Received: 2016/02/13, 13:40

Sample Matrix: Water
Samples Received: 12

Analyses	Date		Laboratory Method	Reference
	Quantity Extracted	Date Analyzed		
Low level PFOS and PFOA in water	12	2016/02/25	2016/02/29 CAM SOP-00894	EPA 537 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

U = Undetected at the limit of quantitation.

J = Estimated concentration between the EDL & RDL.

B = Blank Contamination.

Q = One or more quality control criteria failed.

E = Analyte concentration exceeds the maximum concentration level.

K = Estimated maximum possible concentration due to ion abundance ratio failure.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Melissa DiGrazia, Project Manager - ATUT

Email: MDiGrazia@maxxam.ca

Phone# (905) 817-5700

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics International Corporation is a NELAP accredited laboratory. Certificates #04012 and #4079-001. This certificate shall not be reproduced except in full, without the written approval of Maxxam.



RESULTS OF ANALYSES OF WATER

Maxxam ID		BVX757	BVX758	BVX759	BVX760	BVX761			
Sampling Date		2016/02/09 09:15	2016/02/09 09:20	2016/02/09 09:40	2016/02/09 09:50	2016/02/09 14:30			
COC Number		283620	283620	283620	283620	283620			
	UNITS	OF-FB62-0216	OF-RW62-0216	OF-FB63-0216	OF-RW63-0216	OF-FB59-0216	MDL	QC Batch	RDL
Perfluorobutane Sulfonate (PFBS)	ng/L	0.27 U	0.27 U	0.27 U	6.5	0.27 U	0.27	4394551	2.0
Perfluoroheptanoic Acid (PFHpA)	ng/L	0.39 U	0.39 U	0.39 U	5.8	0.39 U	0.39	4394551	2.0
Perfluorohexane Sulfonate (PFHxS)	ng/L	0.40 U	0.75 J	0.40 U	22	0.40 U	0.40	4394551	2.0
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	0.39 U	0.39 U	0.39 U	30	0.39 U	0.39	4394551	2.0
Perfluorononanoic Acid (PFNA)	ng/L	0.33 U	0.33 U	0.33 U	1.1 J	0.33 U	0.33	4394551	2.0
Perfluorooctane Sulfonate (PFOS)	ng/L	0.30 U	1.5 J	0.30 U	44	0.30 U	0.30	4394551	2.0
Surrogate Recovery (%)									
13C4-Perfluoroheptanoic acid	%	116	84	105	76	108	N/A	4394551	N/A
13C4-Perfluorooctanesulfonate	%	110	71	103	72	105	N/A	4394551	N/A
13C4-Perfluorooctanoic acid	%	104	86	107	81	107	N/A	4394551	N/A
13C5-Perfluorononanoic acid	%	104	79	94	75	106	N/A	4394551	N/A
18O2-Perfluorohexanesulfonate	%	103	85	101	74	95	N/A	4394551	N/A
QC Batch = Quality Control Batch N/A = Not Applicable									

Maxxam ID		BVX762		BVX763	BVX764	BVX765			
Sampling Date		2016/02/09 14:40		2016/02/09 17:35	2016/02/09 17:42	2016/02/09 10:40			
COC Number		283620		283620	283620	283620			
	UNITS	OF-RW59-0216	MDL	OF-FB50-0216	OF-RW50-0216	OF-FB34-0216	MDL	QC Batch	RDL
Perfluorobutane Sulfonate (PFBS)	ng/L	19	0.27	0.27 U	0.27 U	0.27 U	0.27	4394551	2.0
Perfluoroheptanoic Acid (PFHpA)	ng/L	7.0	0.39	0.39 U	0.39 U	0.39 U	0.39	4394551	2.0
Perfluorohexane Sulfonate (PFHxS)	ng/L	360 (1)	4.0	0.40 U	0.40 U	0.40 U	0.40	4394551	2.0
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	87	0.39	0.39 U	0.39 U	0.39 U	0.39	4394551	2.0
Perfluorononanoic Acid (PFNA)	ng/L	0.80 J	0.33	0.33 U	0.33 U	0.33 U	0.33	4394551	2.0
Perfluorooctane Sulfonate (PFOS)	ng/L	580 (1)	3.0	0.30 U	0.30 U	0.30 U	0.30	4394551	2.0
Surrogate Recovery (%)									
13C4-Perfluoroheptanoic acid	%	83	N/A	104	68	105	N/A	4394551	N/A
13C4-Perfluorooctanesulfonate	%	105	N/A	102	53	107	N/A	4394551	N/A
13C4-Perfluorooctanoic acid	%	96	N/A	125	68	113	N/A	4394551	N/A
13C5-Perfluorononanoic acid	%	91	N/A	119	68	105	N/A	4394551	N/A
18O2-Perfluorohexanesulfonate	%	105	N/A	101	67	106	N/A	4394551	N/A
QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to high concentration of the target analyte, sample required dilution. Detection limit was adjusted accordingly.									

RESULTS OF ANALYSES OF WATER

Maxxam ID		BVX766	BVX767	BVX768			
Sampling Date		2016/02/09 10:47	2016/02/09 17:10	2016/02/09 17:16			
COC Number		283620	283620	283620			
	UNITS	OF-RW34-0216	OF-FB38-0216	OF-RW38-0216	MDL	QC Batch	RDL
Perfluorobutane Sulfonate (PFBS)	ng/L	0.27 U	0.27 U	0.27 U	0.27	4394551	2.0
Perfluoroheptanoic Acid (PFHpA)	ng/L	0.39 U	0.39 U	0.39 U	0.39	4394551	2.0
Perfluorohexane Sulfonate (PFHxS)	ng/L	0.40 U	0.40 U	0.40 U	0.40	4394551	2.0
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	0.39 U	0.39 U	0.39 U	0.39	4394551	2.0
Perfluorononanoic Acid (PFNA)	ng/L	0.33 U	0.33 U	0.33 U	0.33	4394551	2.0
Perfluorooctane Sulfonate (PFOS)	ng/L	0.30 U	0.30 U	0.30 U	0.30	4394551	2.0
Surrogate Recovery (%)							
13C4-Perfluoroheptanoic acid	%	86	120	79	N/A	4394551	N/A
13C4-Perfluorooctanesulfonate	%	81	136 (1)	75	N/A	4394551	N/A
13C4-Perfluorooctanoic acid	%	91	130	79	N/A	4394551	N/A
13C5-Perfluorononanoic acid	%	81	121	80	N/A	4394551	N/A
18O2-Perfluorohexanesulfonate	%	88	117	79	N/A	4394551	N/A
QC Batch = Quality Control Batch N/A = Not Applicable (1) Surrogate recovery was above the defined upper control limit (UCL). Because quantitation is performed using isotope dilution techniques, any apparent gains of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar gain of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the high surrogate recovery.							



TEST SUMMARY

Maxxam ID: BVX757
Sample ID: OF-FB62-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX758
Sample ID: OF-RW62-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX759
Sample ID: OF-FB63-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX760
Sample ID: OF-RW63-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX761
Sample ID: OF-FB59-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX762
Sample ID: OF-RW59-0216
Matrix: Water

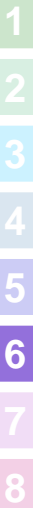
Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX763
Sample ID: OF-FB50-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia



TEST SUMMARY

Maxxam ID: BVX764
Sample ID: OF-RW50-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX765
Sample ID: OF-FB34-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX766
Sample ID: OF-RW34-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX767
Sample ID: OF-FB38-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX768
Sample ID: OF-RW38-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia



GENERAL COMMENTS

Perfluoroheptanoic acid (PFHpA) MDL = 0.39, LOD = 1.0, LOQ = 2.0
Perfluorooctanoic acid (PFOA) MDL = 0.39, LOD = 1.0, LOQ = 2.0
Perfluorononanoic acid (PFNA) MDL = 0.33, LOD = 1.0, LOQ = 2.0
Perfluorobutane sulfonate (PFBS) MDL = 0.27, LOD = 1.0, LOQ = 2.0
Perfluorohexane sulfonate (PFHxA) MDL = 0.40, LOD = 1.0, LOQ = 2.0
Perfluorooctane sulfonate (PFOS) MDL = 0.30, LOD = 1.0, LOQ = 2.0
All Units are in ng/L

Report revised to reflect change to MDL of sample BVX762, PFHxS.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4394551	SCH	Matrix Spike	13C4-Perfluoroheptanoic acid	2016/02/29		69	%	50 - 130
			13C4-Perfluorooctanesulfonate	2016/02/29		66	%	50 - 130
			13C4-Perfluorooctanoic acid	2016/02/29		75	%	50 - 130
			13C5-Perfluorononanoic acid	2016/02/29		69	%	50 - 130
			18O2-Perfluorohexanesulfonate	2016/02/29		77	%	50 - 130
4394551	SCH	Matrix Spike DUP	13C4-Perfluoroheptanoic acid	2016/02/29		81	%	50 - 130
			13C4-Perfluorooctanesulfonate	2016/02/29		71	%	50 - 130
			13C4-Perfluorooctanoic acid	2016/02/29		83	%	50 - 130
			13C5-Perfluorononanoic acid	2016/02/29		82	%	50 - 130
			18O2-Perfluorohexanesulfonate	2016/02/29		84	%	50 - 130
4394551	SCH	Matrix Spike(BVX760)	Perfluorobutane Sulfonate (PFBS)	2016/02/29		146 (1)	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2016/02/29		118	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/02/29		122	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2016/02/29		127	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2016/02/29		NC	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/02/29		NC	%	70 - 130
4394551	SCH	Matrix Spike DUP(BVX760)	Perfluorobutane Sulfonate (PFBS)	2016/02/29		147 (1)	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2016/02/29		111	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/02/29		133 (1)	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2016/02/29		119	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2016/02/29		NC	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/02/29		NC	%	70 - 130
4394551	SCH	MS/MSD RPD	Perfluorobutane Sulfonate (PFBS)	2016/02/29	0.96 (1)		%	30
			Perfluoroheptanoic Acid (PFHpA)	2016/02/29	5.9		%	30
			Perfluorohexane Sulfonate (PFHxS)	2016/02/29	9.0 (1)		%	30
			Perfluorononanoic Acid (PFNA)	2016/02/29	6.3		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2016/02/29	NC		%	30
			Perfluorooctane Sulfonate (PFOS)	2016/02/29	NC		%	30
4394551	SCH	Spiked Blank	13C4-Perfluoroheptanoic acid	2016/02/29		137 (2)	%	50 - 130
			13C4-Perfluorooctanesulfonate	2016/02/29		132 (2)	%	50 - 130
			13C4-Perfluorooctanoic acid	2016/02/29		140 (2)	%	50 - 130
			13C5-Perfluorononanoic acid	2016/02/29		136 (2)	%	50 - 130
			18O2-Perfluorohexanesulfonate	2016/02/29		137 (2)	%	50 - 130
			Perfluorobutane Sulfonate (PFBS)	2016/02/29		91	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2016/02/29		92	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/02/29		96	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2016/02/29		101	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2016/02/29		93	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/02/29		102	%	70 - 130
			13C4-Perfluoroheptanoic acid	2016/02/29		102	%	50 - 130
			13C4-Perfluorooctanesulfonate	2016/02/29		107	%	50 - 130
			13C4-Perfluorooctanoic acid	2016/02/29		114	%	50 - 130
13C5-Perfluorononanoic acid	2016/02/29		103	%	50 - 130			
18O2-Perfluorohexanesulfonate	2016/02/29		99	%	50 - 130			
Perfluorobutane Sulfonate (PFBS)	2016/02/29		0.27 U, MDL=0.27			ng/L		
Perfluoroheptanoic Acid (PFHpA)	2016/02/29		0.39 U, MDL=0.39			ng/L		
Perfluorohexane Sulfonate (PFHxS)	2016/02/29		0.40 U, MDL=0.40			ng/L		
Perfluorononanoic Acid (PFNA)	2016/02/29		0.33 U, MDL=0.33			ng/L		
Perfluoro-n-Octanoic Acid (PFOA)	2016/02/29		0.39 U, MDL=0.39			ng/L		

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Perfluorooctane Sulfonate (PFOS)	2016/02/29	0.30 U, MDL=0.30		ng/L	

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

(1) Recovery of the matrix spike was above the upper control limit. Laboratory spiked water resulted in satisfactory recovery of the compound of interest. When considered together, these QC data suggest that matrix interferences may be biasing the data high. For results that were not detected (ND), this potential bias has no impact.

(2) Surrogate recovery was above the defined upper control limit (UCL). Because quantitation is performed using isotope dilution techniques, any apparent gains of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar gain of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the high surrogate recovery.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Sin Chii Chia, Scientific Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.





CTD WEF6

Chain of Custody Record

Temperature on Receipt 0.9
Drinking Water? Yes No

320-17241 Chain of Custody

TAL-4124 (1007)

Client: CH2M Hill Project Manager: Bill Friedman Date: 02/09/16 Chain of Custody Number: 283620

Address: 5701 Cleveland St, Suite 200 Telephone Number (Area Code)/Fax Number: 757-671-6223 Page: 1 of 1

City: Virginia Beach State: VA Zip Code: 23462 Site Contact: _____ Lab Contact: _____

Project Name and Location (State): CTD WEF6 OFC Sampling Carrier/Waybill Number: FedEx

Contract/Purchase Order/Quote No.: PO# 10006-7-104000

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed	Soil	Unpres	H2SO4	HCl	NaOH	HNO3	Trace/NaOH			
OF-FB62-0216	02/09/16	0915	X					X							
OF-RW62-0216		0920													
OF-FB63-0216		0940													
OF-RW63-0216		0950													
OF-FB59-0216		1430													
OF-RW59-0216		1440													
OF-FF14FB50-0216		1735													
OF-RW50-0216		1742													
OF-FB34-0216		1040													
OF-RW34-0216		1047													
OF-FB38-0216	02/09/16	1710													
OF-RW38-0216	02/09/16	1716													

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

QC Requirements (Specify): _____

1. Relinquished By: Kathleen Arnold Date: 02/09/16 Time: 19:00 1. Received By: [Signature] Date: 2/10/16 Time: 9:15

2. Relinquished By: _____ Date: _____ Time: _____ 2. Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____

1
2
3
4
5
6
7
8

Chain of Custody Record

RUSH

Temperature on Receipt 0-4



320-17241 Chain of Custody

CTD WE7G

Drinking Water? Yes No

Due 2/22

13-Feb-16 13:40

Hongmei Zhao (Grace)



B630790

AKP ENV-1104

Project Manager [Redacted]	Date 02/09/16	Chain of Custody Number 283620
Telephone Number (Area Code)/Fax Number [Redacted]	Lab Number	Page 1 of 1

Site Contact [Redacted]	Lab Contact	Analysis (Attach list if more space is needed)
Carrier/Waybill Number Fed Ex		

Sample I.D. No. and Description
(Containers for each sample may be combined on one line)

Sample I.D. No. and Description	Date	Time	Matrix						Containers & Preservatives						Special Instructions/ Conditions of Receipt		
			Air	Ammonia	Soil	Soil	Soil	Soil	Urpres	H2SO4	HWB	HCl	NaOH	ZnAc2		NaOH	
OF-FB62-0216	02/09/16	0915		X				X								2	Select PFGs
OF-RW62-0216		0920														2	
OF-FB63-0216		0940														2	
OF-RW63-0216		0950														2	
OF-FB59-0216		1430														2	
OF-RW59-0216		1440														2	
OF-Off FB50-0216		1735														2	
OF-RW50-0216		1742														2	
OF-FB34-0216		1040														2	
OF-RW34-0216		1047														2	
OF-FB38-0216	02/09/16	1710														2	
OF-RW38-0216	02/09/16	1716														2	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____
 QC Requirements (Specify)

1. Relinquished By Kathryn Smith	Date 02/09/16	Time 19:00	1. Received By [Signature]	Date 2/10/16	Time 9:15
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By Dora Anna Parik	Date 2/10/16	Time 13:40

Comments

DISTRIBUTION: WHITE - Returned to Client with Report, CANARY - Stays with the Sample, PINK - Field Copy

Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 320-17241-1
SDG Number: CTO WE7G PFC Sampling

Login Number: 17241
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Job Number: 320-17241-1
SDG Number: CTO WE7G PFC Sampling
Job Description: CTO WE7G PFC Sampling

For:
CH2M Hill, Inc.
5701 Cleveland Street
Suite 200
Virginia Beach, VA 23462
Attention: Laurie George



Approved for release.
Laura Turpen
Project Manager I
3/11/2016 12:14 PM

Laura Turpen, Project Manager I
880 Riverside Parkway, West Sacramento, CA, 95605
(916)374-4414
laura.turpen@testamericainc.com
03/11/2016

The test results in this report relate only to the samples in this report and meet all requirements of NELAP, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Sacramento 880 Riverside Parkway, West Sacramento, CA 95605
Tel (916) 373-5600 Fax (916) 372-1059 www.testamericainc.com



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Definitions/Glossary

Client: CH2M Hill, Inc.
Project/Site: CTO WE7G PFC Sampling

TestAmerica Job ID: 320-17241-1
SDG: CTO WE7G PFC Sampling

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: CH2M Hill, Inc.

Project: CTO WE7G PFC Sampling

Report Number: 320-17241-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica West Sacramento attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

All parameters for which TestAmerica West Sacramento has certification were evaluated to the QSM specified reporting convention or to the client specified format if different from QSM. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

Receipt

The samples were received on 2/10/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.4° C.

Subcontract Work

PFC: This method was subcontracted to Maxxam Analytics Inc.. The subcontract laboratory certification is different from that of the facility issuing the final report. Any analytical or quality issues are noted in the subcontract portion of the report.

The DL/LOD/LOQ limits for Maxxam, along with information on the data qualifiers, are included in the narrative (Page 8 of 317 of the subcontract report; page 15 of 328 of the entire report).

The DL/LOD/LOQ for sample OF-RW59-0216 (320-17241-6) were adjusted by a dilution factor of 10 for PFHxS and PFOS.

Certification Summary

Client: CH2M Hill, Inc.
Project/Site: CTO WE7G PFC Sampling

TestAmerica Job ID: 320-17241-1
SDG: CTO WE7G PFC Sampling

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-17
Oregon	NELAP	10	CA200005	01-29-17

Sample Summary

Client: CH2M Hill, Inc.
Project/Site: CTO WE7G PFC Sampling

TestAmerica Job ID: 320-17241-1
SDG: CTO WE7G PFC Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-17241-1	OF-FB62-0216	Water	02/09/16 09:15	02/10/16 09:15
320-17241-2	OF-RW62-0216	Water	02/09/16 09:20	02/10/16 09:15
320-17241-3	OF-FB63-0216	Water	02/09/16 09:40	02/10/16 09:15
320-17241-4	OF-RW63-0216	Water	02/09/16 09:50	02/10/16 09:15
320-17241-5	OF-FB59-0216	Water	02/09/16 14:30	02/10/16 09:15
320-17241-6	OF-RW59-0216	Water	02/09/16 14:40	02/10/16 09:15
320-17241-7	OF-FB50-0216	Water	02/09/16 17:35	02/10/16 09:15
320-17241-8	OF-RW50-0216	Water	02/09/16 17:42	02/10/16 09:15
320-17241-9	OF-FB34-0216	Water	02/09/16 10:40	02/10/16 09:15
320-17241-10	OF-RW34-0216	Water	02/09/16 10:47	02/10/16 09:15
320-17241-11	OF-FB38-0216	Water	02/09/16 17:10	02/10/16 09:15
320-17241-12	OF-RW38-0216	Water	02/09/16 17:16	02/10/16 09:15

Subcontract Data



Prepared for: Test America

Project: 320-17241

Analytical Data Package (Level IV)

Analysis: Low level PFOS and PFOA in water (Method 537)

Maxxam Job #: B630790

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3. Analytical Results

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4. QA/QC Data

5. Initial Calibration

6. Continuing Calibration

Last Page



I hereby certify that to the best of my knowledge all analytical data presented in this report:

- Has been checked for completeness.
- Is accurate, legible and error free.
- Has been conducted in accordance with approved SOP's and that all deviations are clearly listed in the Case Narrative.
- This report has been generated in .pdf format.

Review Performed By:

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Glossary of Terms

- **Detection Limit (DL)** this can also be called **Method Detection Limit (MDL)**: The lowest concentration or amount of the target analyte that can be identified, measured, and reported with confidence that the analyte concentration is not a false positive value. (Clarification): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence. At the DL, the false positive rate (Type I error) is 1%.
- **Limit of Detection (LOD)**: An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. (Clarification): The smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.
- **Limits of Quantitation (LOQ)** this can also be called **Reporting Detection Limit (RDL)**: The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. (Clarification): The lowest concentration that produces a quantitative result within specified limits of precision and bias. For DoD projects, the LOQ shall be set at or above the concentration of the lowest initial calibration standard.
- **Acceptance Criteria** are values used by the laboratory to determine that a process is in control.
- **Accuracy** is the degree of agreement of a measured value with the true or expected value.
- **Calibration Standards** are a set of solutions containing the analytes of interest at a specified concentration.
- **Calibration Verification Standard** consists of a calibration standard solution of intermediate concentration (mid-point initial calibration level) used to assess whether the initial calibration is still valid
- **Certified Reference Material** is a stable homogenous material that is certified by repetitive analysis from a supplier who is certified to generate said materials.

- **Internal Standard** a deuterated or ^{13}C -labelled analyte that is added to a sample extract prior to instrumental analysis to compensate for injection variability.
- **Isomer** is a member of a group of compounds that differ from each other only in the locations of a specific number of common substituent atoms or groups of atoms on the parent compound.
- **Method Blank** is a laboratory control sample using reagents that are known to be free of contamination.
- **Precision** is the degree of agreement between the data generated from repetitive measurements under specific conditions.
- **Quality Assurance** is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality.
- **Quality Control** is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of the end user.
- **RSD** is the relative standard deviation.
- **Blank Spike** is a laboratory control sample that has been fortified with native analytes of interest.
- **Window Defining Mixture** is a solution containing only the earliest and latest eluting congeners within each homologous group of target analytes on a specified GC column.
- **RPD** or Relative Percent Difference. A measure used to compare duplicate sample analysis.
- **EMPC/NDR** – Peak detected does not meet ratio criteria and has resulted in a higher detection limit.



1.0 Project Narrative

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Maxxam Job: B630790

Sample Analysis

All samples were initially analyzed on QC batch 4390179 (2016/02/23). Due to failure of QC acceptance criteria, all samples were reanalyzed on QC batch 4394551 (2016/02/29). The concentrations of Perfluorohexanesulfonate (PFHxS) and Perfluorooctanesulfonate (PFOS) exceeded the upper calibration range for the following sample originally analyzed on QC batch 4390179 (2016/02/23):

BVX762 *OF-RW59-0216*

This sample was re-analyzed with appropriate dilutions for the specified compounds on QC batch 4394551 (2016/02/29). Detection limits were adjusted accordingly. Re-analysis was performed after hold time had passed for all samples in the job. Due to the chemical stability of perfluorinated compounds, the hold time exceedance is not expected to have a significant impact on data quality.

Data Qualifiers

In the Results of Analyses, U-flags are applied to results that are less than the DL (MDL). J-flags are applied to results that are less than the RDL (LOQ) but greater than the DL (MDL). Due to limitations in LIMS, the results cannot be U-flagged to the LOD. The LODs for each analyte are presented in the table below.

Parameter	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
Perfluorobutane sulfonate (PFBS)	0.27	1.0	2.0
Perfluorohexane sulfonate (PFHxS)	0.40	1.0	2.0
Perfluoroheptanoic acid (PFHpA)	0.39	1.0	2.0
Perfluorooctanoic acid (PFOA)	0.39	1.0	2.0
Perfluorooctane sulfonate (PFOS)	0.30	1.0	2.0
Perfluorononanoic acid (PFNA)	0.33	1.0	2.0

Sin Chii Chia, B.Sc.

schia@maxxam.ca

Office 905 817 5700

PROJECT NARRATIVE

Maxxam Analytics
Client Project #: 320-17241



Client: TestAmerica
Client Project: 320-17241

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Maxxam ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Date Run	Initial Calibration
Low level PFOS and PFOA in water						
BVX757	OF-FB62-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29
BVX758	OF-RW62-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29
BVX759	OF-FB63-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29
BVX760	OF-RW63-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29
BVX761	OF-FB59-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29
BVX762	OF-RW59-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29
BVX763	OF-FB50-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29
BVX764	OF-RW50-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29
BVX765	OF-FB34-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29
BVX766	OF-RW34-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29
BVX767	OF-FB38-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29
BVX768	OF-RW38-0216	2016/02/09	2016/02/13	2016/02/25	2016/02/29	2016/02/29

Run Date is defined as the date of injection of the last calibration standard (12 hours or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: none encountered

c) Documentation Problems: none encountered

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis

a) Hold Times: see Case Narrative

b) Instrument Calibration: all within control limits

c) Quality Control: All applicable QC meets control criteria, except where otherwise noted.

d) All analytes requiring manual intergration(s) are noted on the sample chromatograms

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for other than the conditions detailed above.

In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

M Di Grazia

2016/03/11

Date



2. Sample Management Records

Maxxam Analytics International
6740 Campobello Rd
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com



2.1 Sample Custody

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www.maxxamanalytics.com

RUSH

Chain of Custody Record

Temperature on Receipt 0.9

CTO WETG

320-17241 Chain of Custody

Drinking Water? Yes No

Project Manager: [Redacted] Chain of Custody Number: 283620
 Telephone Number (Area Code)/Fax Number: [Redacted] Lab Number: 02/09/16
 Site Contact: [Redacted] Lab Contact: [Redacted] Page: [] of []
 Carrier/Voybill Number: FedEx

Due 2/22
 13-Feb-16 13:40
 Hongmei Zhao (Grace)
 B630790

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix							Containers & Preservatives	Special Instructions/ Conditions of Receipt												
			Air	Aqueous	Sed	Soil	Impres	H2SO4	HNO3			HCl	MACH	ZINC	CORN								
OF-FB62-0216	02/09/16	0915	X							X													
OF-RW62-0216		0920																					
OF-FB63-0216		0940																					
OF-RW63-0216		0950																					
OF-FB59-0216		1430																					
OF-RW59-0216		1410																					
OF-FF74FB50-0216		1735																					
OF-RW50-0216		1742																					
OF-FB34-0216		1040																					
OF-RW34-0216		1047																					
OF-FB38-0216	02/09/16	1710																					
OF-RW38-0216	02/09/16	1716																					

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

GC Requirements (Specify):

1. Retained By: [Signature] Date: 02/10/16 Time: 915
 2. Received By: [Signature] Date: 02/10/16 Time: 915
 3. Retained By: [Signature] Date: 02/10/16 Time: 13:40

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other

1. Relinquished By: [Signature] Date: 02/09/16 Time: 19:00
 2. Relinquished By: [Signature] Date: [] Time: []

3. Relinquished By: [Signature] Date: [] Time: []

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Stays with the Sample. PINK - Field Copy



3. Analytical Results

Maxxam Analytics International
6740 Campobello Rd
Mississauga, Ontario, Canada
L5N 2L8
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www.maxxamanalytics.com



3.1 Summary Report

Maxxam Analytics International
6740 Campobello Rd
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com



Your Project #: 320-17241
Your C.O.C. #: 283620

Attention:PFC Reporting Group

TestAmerica
Sacramento
880 Riverside Parkway
West Sacramento, CA
USA 95605

Report Date: 2016/03/11
Report #: R3925791
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B630790
Received: 2016/02/13, 13:40

Sample Matrix: Water
Samples Received: 12

Analyses	Date		Laboratory Method	Reference
	Quantity Extracted	Date Analyzed		
Low level PFOS and PFOA in water	12	2016/02/25	2016/02/29 CAM SOP-00894	EPA 537 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Melissa DiGrazia, Project Manager - ATUT
Email: MDiGrazia@maxxam.ca
Phone# (905) 817-5700

=====
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RESULTS OF ANALYSES OF WATER

Maxxam ID		BVX757	BVX758	BVX759	BVX760	BVX761			
Sampling Date		2016/02/09 09:15	2016/02/09 09:20	2016/02/09 09:40	2016/02/09 09:50	2016/02/09 14:30			
COC Number		283620	283620	283620	283620	283620			
	UNITS	OF-FB62-0216	OF-RW62-0216	OF-FB63-0216	OF-RW63-0216	OF-FB59-0216	RDL	MDL	QC Batch

Miscellaneous Parameters									
Perfluorobutane Sulfonate (PFBS)	ng/L	0.27 U	0.27 U	0.27 U	6.5	0.27 U	2.0	0.27	4394551
Perfluoroheptanoic Acid (PFHpA)	ng/L	0.39 U	0.39 U	0.39 U	5.8	0.39 U	2.0	0.39	4394551
Perfluorohexane Sulfonate (PFHxS)	ng/L	0.40 U	0.75 J	0.40 U	22	0.40 U	2.0	0.40	4394551
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	0.39 U	0.39 U	0.39 U	30	0.39 U	2.0	0.39	4394551
Perfluorononanoic Acid (PFNA)	ng/L	0.33 U	0.33 U	0.33 U	1.1 J	0.33 U	2.0	0.33	4394551
Perfluorooctane Sulfonate (PFOS)	ng/L	0.30 U	1.5 J	0.30 U	44	0.30 U	2.0	0.30	4394551

Surrogate Recovery (%)									
13C4-Perfluoroheptanoic acid	%	116	84	105	76	108	N/A	N/A	4394551
13C4-Perfluorooctanesulfonate	%	110	71	103	72	105	N/A	N/A	4394551
13C4-Perfluorooctanoic acid	%	104	86	107	81	107	N/A	N/A	4394551
13C5-Perfluorononanoic acid	%	104	79	94	75	106	N/A	N/A	4394551
18O2-Perfluorohexanesulfonate	%	103	85	101	74	95	N/A	N/A	4394551

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam ID		BVX762			BVX763	BVX764	BVX765			
Sampling Date		2016/02/09 14:40			2016/02/09 17:35	2016/02/09 17:42	2016/02/09 10:40			
COC Number		283620			283620	283620	283620			
	UNITS	OF-RW59-0216	RDL	MDL	OF-FB50-0216	OF-RW50-0216	OF-FB34-0216	RDL	MDL	QC Batch

Miscellaneous Parameters										
Perfluorobutane Sulfonate (PFBS)	ng/L	19	2.0	0.27	0.27 U	0.27 U	0.27 U	2.0	0.27	4394551
Perfluoroheptanoic Acid (PFHpA)	ng/L	7.0	2.0	0.39	0.39 U	0.39 U	0.39 U	2.0	0.39	4394551
Perfluorohexane Sulfonate (PFHxS)	ng/L	360 (1)	20	4.0	0.40 U	0.40 U	0.40 U	2.0	0.40	4394551
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	87	2.0	0.39	0.39 U	0.39 U	0.39 U	2.0	0.39	4394551
Perfluorononanoic Acid (PFNA)	ng/L	0.80 J	2.0	0.33	0.33 U	0.33 U	0.33 U	2.0	0.33	4394551
Perfluorooctane Sulfonate (PFOS)	ng/L	580 (1)	20	3.0	0.30 U	0.30 U	0.30 U	2.0	0.30	4394551

Surrogate Recovery (%)										
13C4-Perfluoroheptanoic acid	%	83	N/A	N/A	104	68	105	N/A	N/A	4394551
13C4-Perfluorooctanesulfonate	%	105	N/A	N/A	102	53	107	N/A	N/A	4394551
13C4-Perfluorooctanoic acid	%	96	N/A	N/A	125	68	113	N/A	N/A	4394551
13C5-Perfluorononanoic acid	%	91	N/A	N/A	119	68	105	N/A	N/A	4394551
18O2-Perfluorohexanesulfonate	%	105	N/A	N/A	101	67	106	N/A	N/A	4394551

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Due to high concentration of the target analyte, sample required 10x dilution. Detection limit was adjusted accordingly.

RESULTS OF ANALYSES OF WATER

Maxxam ID		BVX766	BVX767	BVX768			
Sampling Date		2016/02/09 10:47	2016/02/09 17:10	2016/02/09 17:16			
COC Number		283620	283620	283620			
	UNITS	OF-RW34-0216	OF-FB38-0216	OF-RW38-0216	RDL	MDL	QC Batch
Miscellaneous Parameters							
Perfluorobutane Sulfonate (PFBS)	ng/L	0.27 U	0.27 U	0.27 U	2.0	0.27	4394551
Perfluoroheptanoic Acid (PFHpA)	ng/L	0.39 U	0.39 U	0.39 U	2.0	0.39	4394551
Perfluorohexane Sulfonate (PFHxS)	ng/L	0.40 U	0.40 U	0.40 U	2.0	0.40	4394551
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	0.39 U	0.39 U	0.39 U	2.0	0.39	4394551
Perfluorononanoic Acid (PFNA)	ng/L	0.33 U	0.33 U	0.33 U	2.0	0.33	4394551
Perfluorooctane Sulfonate (PFOS)	ng/L	0.30 U	0.30 U	0.30 U	2.0	0.30	4394551
Surrogate Recovery (%)							
13C4-Perfluoroheptanoic acid	%	86	120	79	N/A	N/A	4394551
13C4-Perfluorooctanesulfonate	%	81	136 (1)	75	N/A	N/A	4394551
13C4-Perfluorooctanoic acid	%	91	130	79	N/A	N/A	4394551
13C5-Perfluorononanoic acid	%	81	121	80	N/A	N/A	4394551
18O2-Perfluorohexanesulfonate	%	88	117	79	N/A	N/A	4394551
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Surrogate recovery was above the defined upper control limit (UCL). Because quantitation is performed using isotope dilution techniques, any apparent gains of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar gain of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the high surrogate recovery.							

TEST SUMMARY

Maxxam ID: BVX757
Sample ID: OF-FB62-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX758
Sample ID: OF-RW62-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX759
Sample ID: OF-FB63-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX760
Sample ID: OF-RW63-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX761
Sample ID: OF-FB59-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX762
Sample ID: OF-RW59-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX763
Sample ID: OF-FB50-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

TEST SUMMARY

Maxxam ID: BVX764
Sample ID: OF-RW50-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX765
Sample ID: OF-FB34-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX766
Sample ID: OF-RW34-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX767
Sample ID: OF-FB38-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

Maxxam ID: BVX768
Sample ID: OF-RW38-0216
Matrix: Water

Collected: 2016/02/09
Shipped:
Received: 2016/02/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Low level PFOS and PFOA in water	LCMS	4394551	2016/02/25	2016/02/29	Sin Chii Chia

GENERAL COMMENTS

Report revised to reflect change to MDL of sample BVX762, PFHxS
Report revised to reflect updated remarks and DLs for dilutions

Perfluoroheptanoic acid (PFHpA) MDL = 0.39, LOD = 1.0, LOQ = 2.0
Perfluorooctanoic acid (PFOA) MDL = 0.39, LOD = 1.0, LOQ = 2.0
Perfluorononanoic acid (PFNA) MDL = 0.33, LOD = 1.0, LOQ = 2.0
Perfluorobutane sulfonate (PFBS) MDL = 0.27, LOD = 1.0, LOQ = 2.0
Perfluorohexane sulfonate (PFHxS) MDL = 0.40, LOD = 1.0, LOQ = 2.0
Perfluorooctane sulfonate (PFOS) MDL = 0.30, LOD = 1.0, LOQ = 2.0
All Units are in ng/L

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4394551	SCH	Matrix Spike [BVX760-01]	13C4-Perfluoroheptanoic acid	2016/02/29		69	%	50 - 130
			13C4-Perfluorooctanesulfonate	2016/02/29		66	%	50 - 130
			13C4-Perfluorooctanoic acid	2016/02/29		75	%	50 - 130
			13C5-Perfluorononanoic acid	2016/02/29		69	%	50 - 130
			18O2-Perfluorohexanesulfonate	2016/02/29		77	%	50 - 130
			Perfluorobutane Sulfonate (PFBS)	2016/02/29		146 (1)	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2016/02/29		118	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/02/29		122	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2016/02/29		127	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2016/02/29		NC	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/02/29		NC	%	70 - 130
4394551	SCH	RPD [BVX760-01]	Perfluorobutane Sulfonate (PFBS)	2016/02/29	0.96 (1)		%	30
			Perfluoroheptanoic Acid (PFHpA)	2016/02/29	5.9		%	30
			Perfluorohexane Sulfonate (PFHxS)	2016/02/29	9.0 (1)		%	30
			Perfluorononanoic Acid (PFNA)	2016/02/29	6.3		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2016/02/29	NC		%	30
			Perfluorooctane Sulfonate (PFOS)	2016/02/29	NC		%	30
4394551	SCH	Spiked Blank	13C4-Perfluoroheptanoic acid	2016/02/29		137 (2)	%	50 - 130
			13C4-Perfluorooctanesulfonate	2016/02/29		132 (2)	%	50 - 130
			13C4-Perfluorooctanoic acid	2016/02/29		140 (2)	%	50 - 130
			13C5-Perfluorononanoic acid	2016/02/29		136 (2)	%	50 - 130
			18O2-Perfluorohexanesulfonate	2016/02/29		137 (2)	%	50 - 130
			Perfluorobutane Sulfonate (PFBS)	2016/02/29		91	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2016/02/29		92	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/02/29		96	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2016/02/29		101	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2016/02/29		93	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/02/29		102	%	70 - 130
4394551	SCH	Method Blank	13C4-Perfluoroheptanoic acid	2016/02/29		102	%	50 - 130
			13C4-Perfluorooctanesulfonate	2016/02/29		107	%	50 - 130
			13C4-Perfluorooctanoic acid	2016/02/29		114	%	50 - 130
			13C5-Perfluorononanoic acid	2016/02/29		103	%	50 - 130
			18O2-Perfluorohexanesulfonate	2016/02/29		99	%	50 - 130
			Perfluorobutane Sulfonate (PFBS)	2016/02/29	0.27 U, MDL=0.27		ng/L	
			Perfluoroheptanoic Acid (PFHpA)	2016/02/29	0.39 U, MDL=0.39		ng/L	
			Perfluorohexane Sulfonate (PFHxS)	2016/02/29	0.40 U, MDL=0.40		ng/L	
			Perfluorononanoic Acid (PFNA)	2016/02/29	0.33 U, MDL=0.33		ng/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2016/02/29	0.39 U, MDL=0.39		ng/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Perfluorooctane Sulfonate (PFOS)	2016/02/29	0.30 U, MDL=0.30		ng/L	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.


NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

(1) Recovery of the matrix spike was above the upper control limit. Laboratory spiked water resulted in satisfactory recovery of the compound of interest. When considered together, these QC data suggest that matrix interferences may be biasing the data high. For results that were not detected (ND), this potential bias has no impact.

(2) Surrogate recovery was above the defined upper control limit (UCL). Because quantitation is performed using isotope dilution techniques, any apparent gains of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar gain of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the high surrogate recovery.

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Sin Chii Chia, Scientific Services

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METHOD 537
DETERMINATION OF SELECTED PERFLUORINATED ALKYL
ACIDS IN DRINKING WATER BY SOLID PHASE EXTRACTION
AND LIQUID CHROMATOGRAPHY/TANDEM MASS SPECTROMETRY
(LC/MS/MS)

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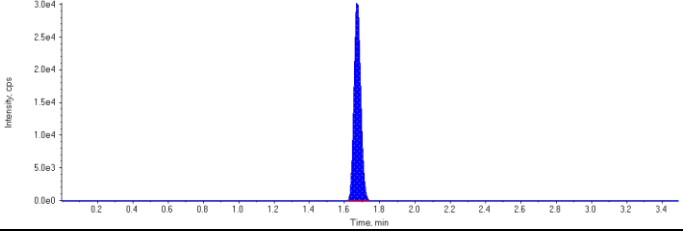
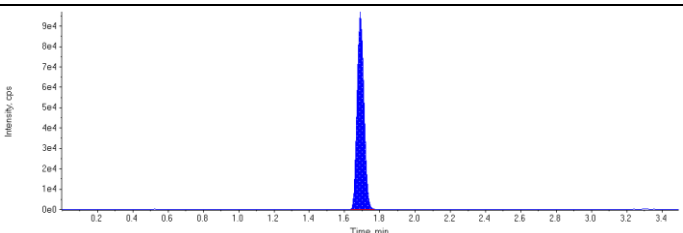
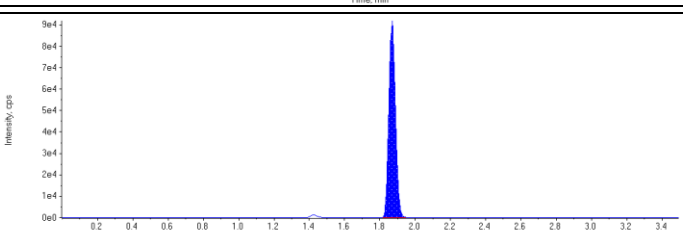
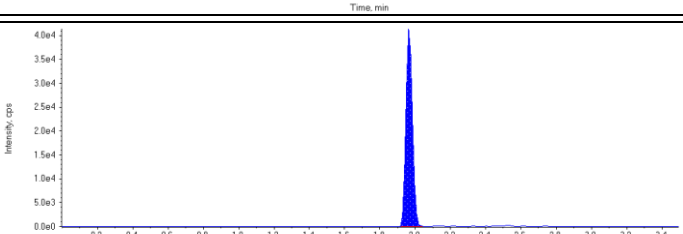
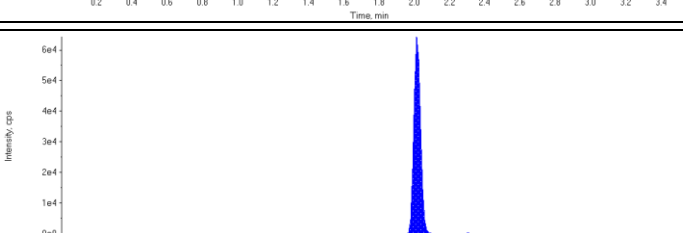
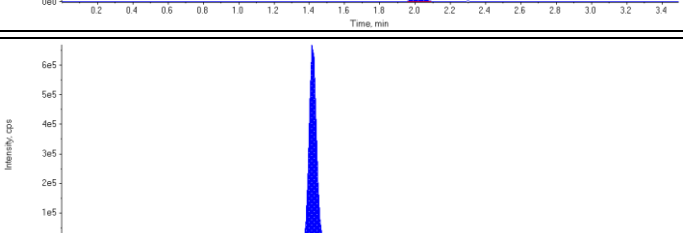
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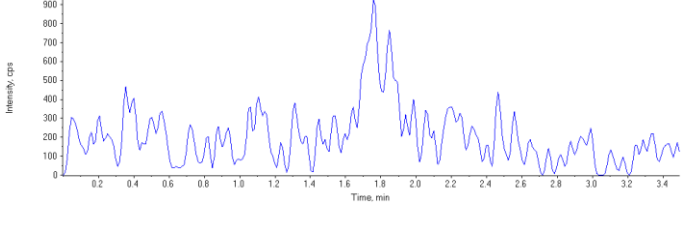
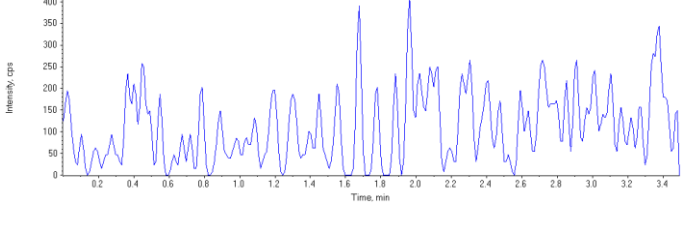
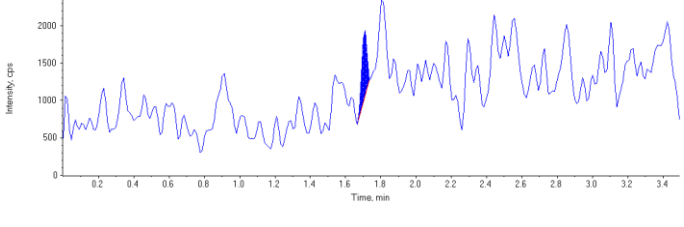
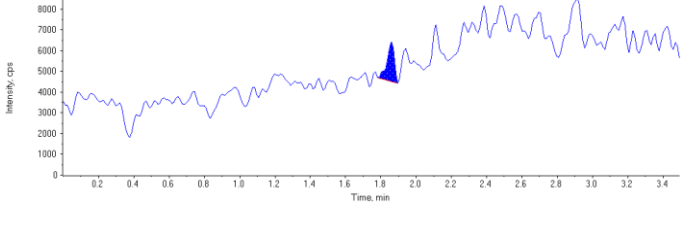
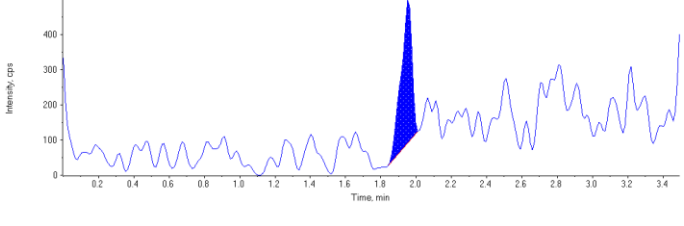
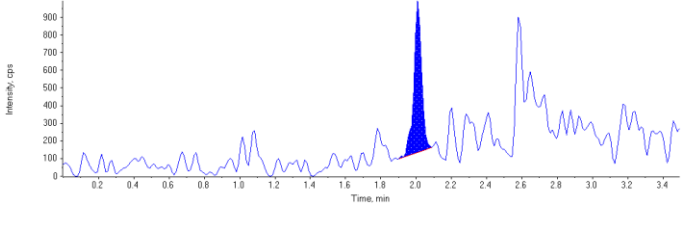
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1-800-668-0639
www.maxxamanalytics.com

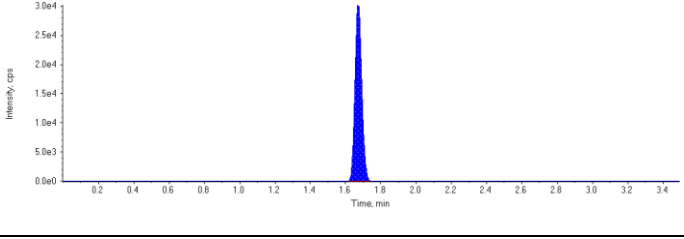
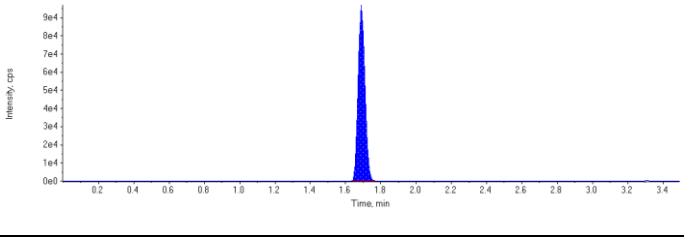
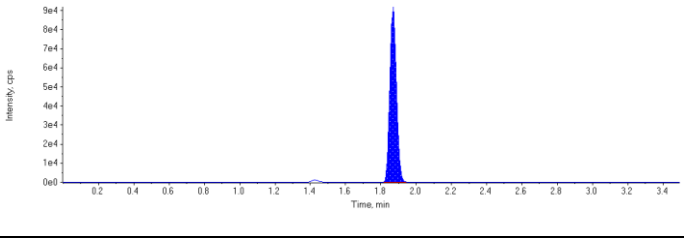
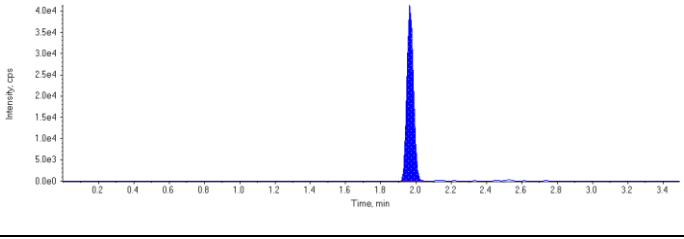
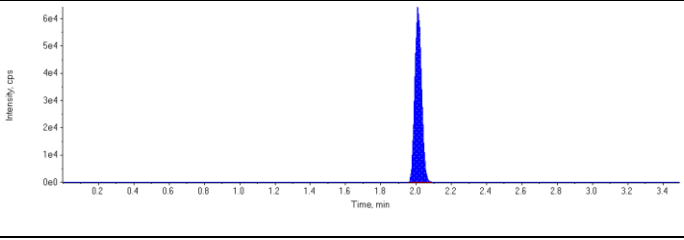
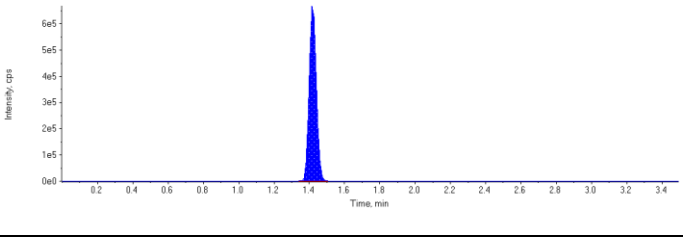
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Sample ID	4390179~BVX757-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:57:15 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	82300.	1.67	1.00	-
MPFHpA	258000.	1.69	1.00	-
MPFOA	238000.	1.87	1.00	-
MPFOS	107000.	1.97	1.00	-
MPFNA	170000.	2.01	1.00	-
13C6-PFHxA IS	1930000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	1800	1.71	N/A	0.136	N/A
PFOA 1	5450	1.86	N/A	N/A	N/A
PFOS 1	1740	1.95	N/A	0.431	N/A
PFNA 1	2600	2.01	N/A	N/A	N/A
18O2-PFHxS	82300	1.67	N/A	53.3	N/A
13C4-PFHpA	258000	1.69	N/A	58.0	N/A
13C4-PFOA	238000	1.87	N/A	59.4	N/A
13C4-PFOS	107000	1.97	N/A	53.7	N/A
13C5-PFNA	170000	2.01	N/A	50.2	N/A
13C6-PFHxA	1930000	1.42	N/A	97.9	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.97(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

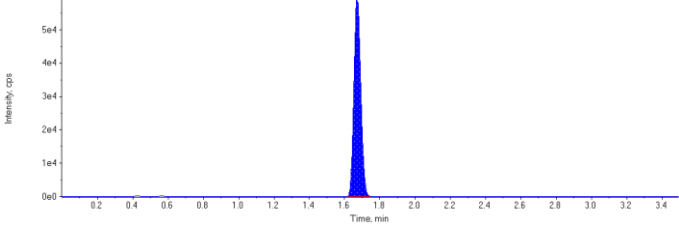
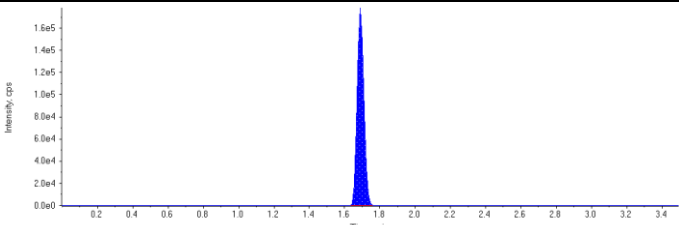
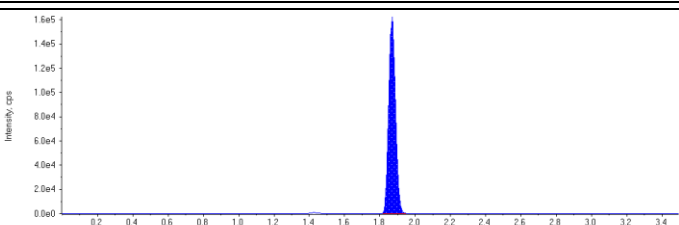
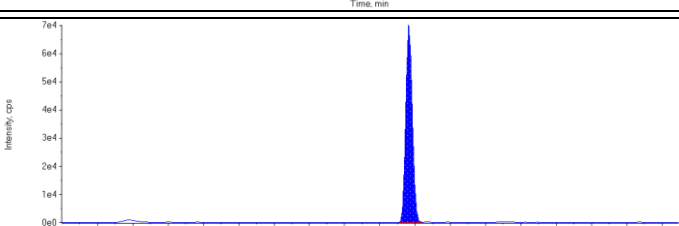
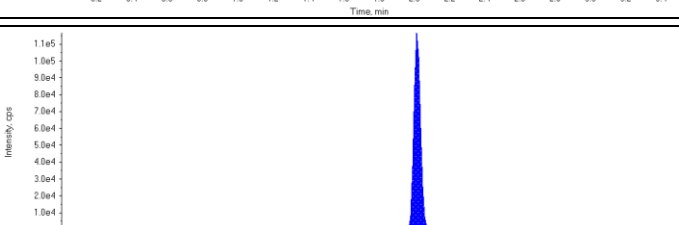
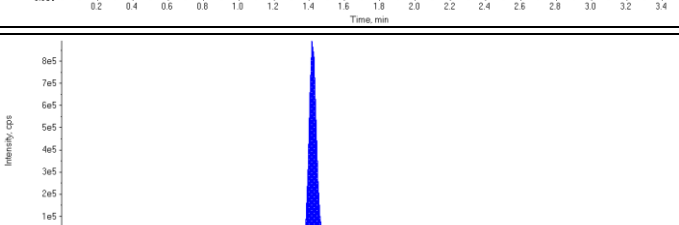
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.09) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.71 (1.70) min</p> <p>Calculated Conc: 0.136 ng/L</p> <p>Area Ratio: 0.00699</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0229</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 0.431 ng/L</p> <p>Area Ratio: 0.0163</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0153</p> <p>Sample Type: (Unknown)</p>	

<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 53.3 ng/L</p> <p>Area Ratio: 0.0427</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 58.0 ng/L</p> <p>Area Ratio: 0.134</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 59.4 ng/L</p> <p>Area Ratio: 0.123</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 53.7 ng/L</p> <p>Area Ratio: 0.0553</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 50.2 ng/L</p> <p>Area Ratio: 0.0881</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 97.9 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

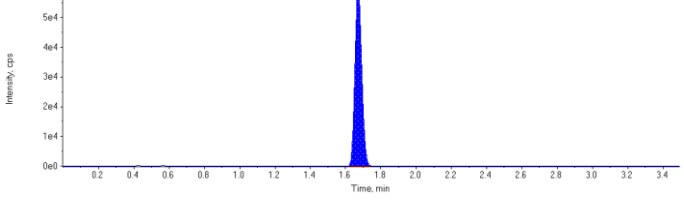
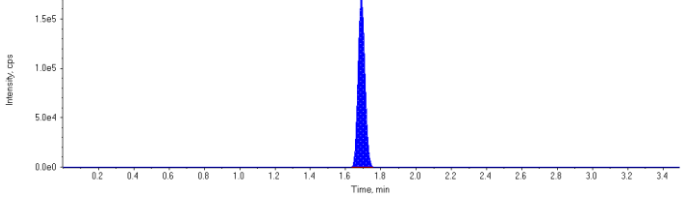
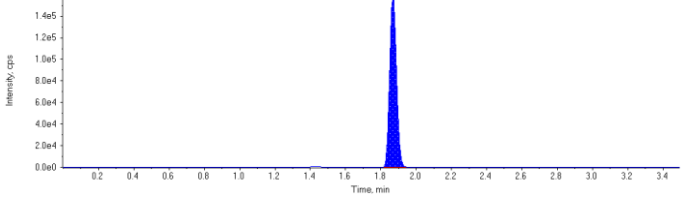
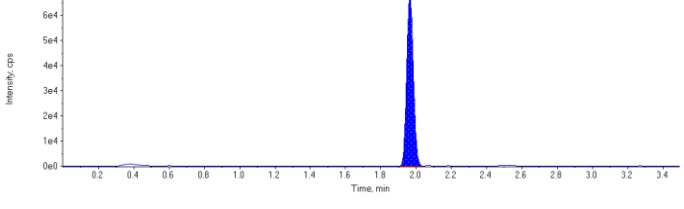
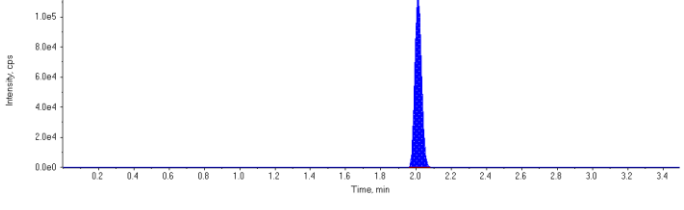
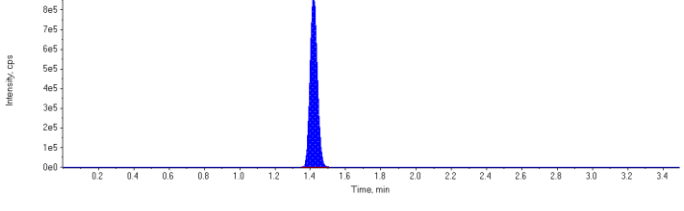
Sample Name	4390179~BVX758-01	Injection Vial	14
Sample ID	4390179~BVX758-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:02:25 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	161000.	1.67	1.00	-
MPFHpA	471000.	1.69	1.00	-
MPFOA	432000.	1.87	1.00	-
MPFOS	179000.	1.96	1.00	-
MPFNA	304000.	2.01	1.00	-
13C6-PFHxA IS	2540000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	5250	1.08	N/A	0.751	N/A
PFHxS 1	26100	1.67	N/A	0.815	N/A
PFHpA 1	9360	1.69	N/A	0.240	N/A
PFOA 1	14000	1.87	N/A	0.0514	N/A
PFOS 1	26600	1.96	N/A	1.22	N/A
PFNA 1	4300	2.02	N/A	N/A	N/A
18O2-PFHxS	161000	1.67	N/A	79.2	N/A
13C4-PFHpA	471000	1.69	N/A	80.5	N/A
13C4-PFOA	432000	1.87	N/A	82.1	N/A
13C4-PFOS	179000	1.96	N/A	68.3	N/A
13C5-PFNA	304000	2.01	N/A	68.4	N/A
13C6-PFHxA	2540000	1.42	N/A	129.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

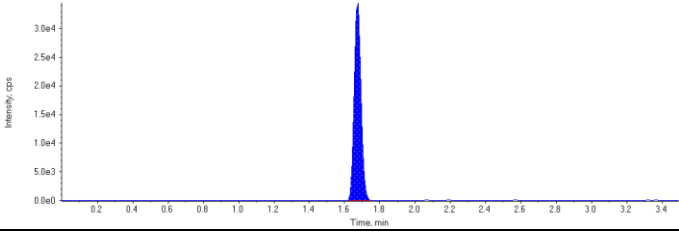
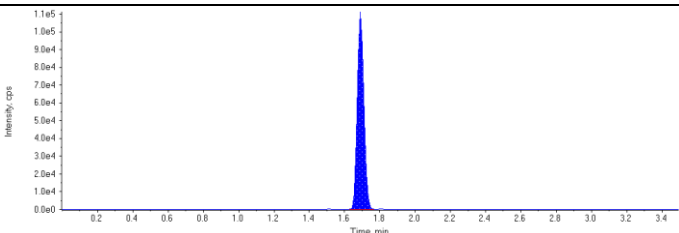
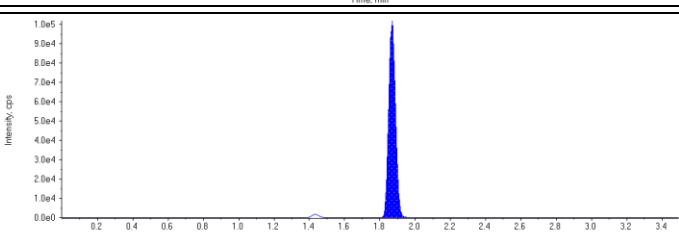
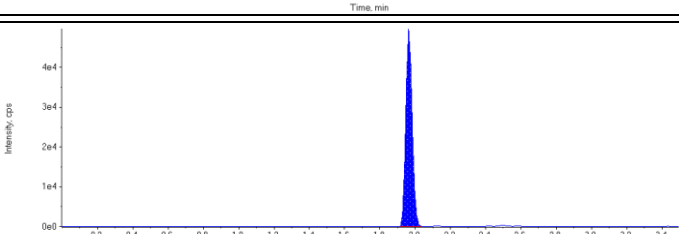
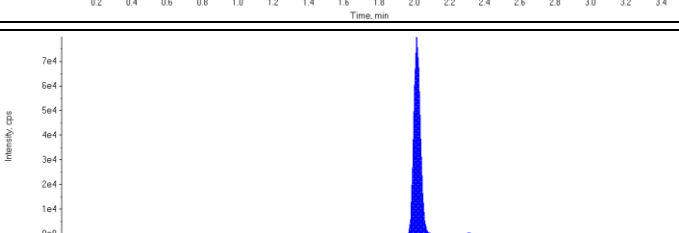
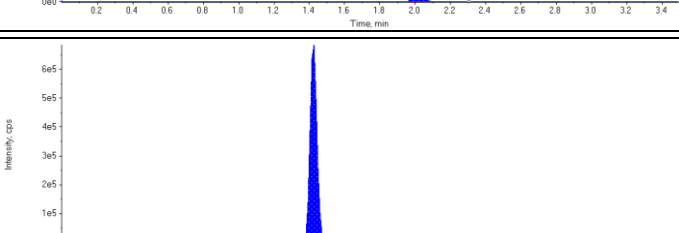
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.08 (1.09) min</p> <p>Calculated Conc: 0.751 ng/L</p> <p>Area Ratio: 0.0326</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 0.815 ng/L</p> <p>Area Ratio: 0.162</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 0.240 ng/L</p> <p>Area Ratio: 0.0199</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 0.0514 ng/L</p> <p>Area Ratio: 0.0324</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 1.22 ng/L</p> <p>Area Ratio: 0.149</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.02 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0141</p> <p>Sample Type: (Unknown)</p>	

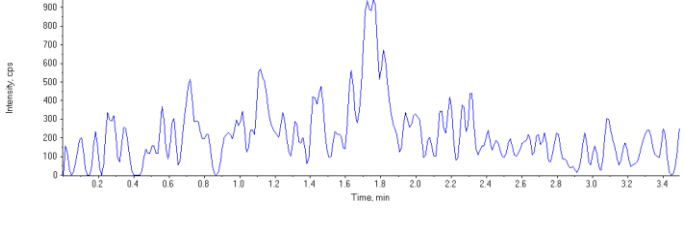
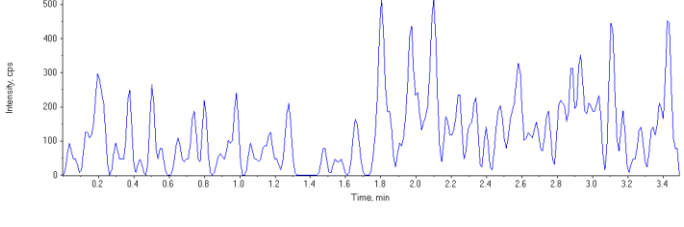
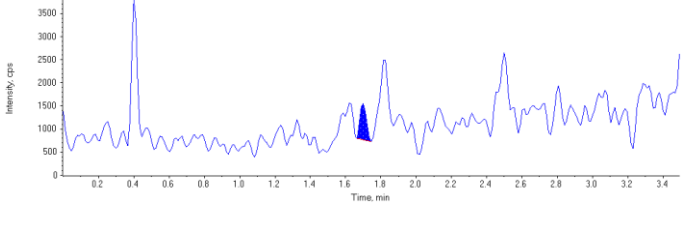
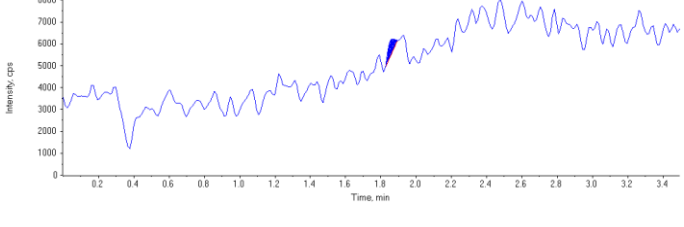
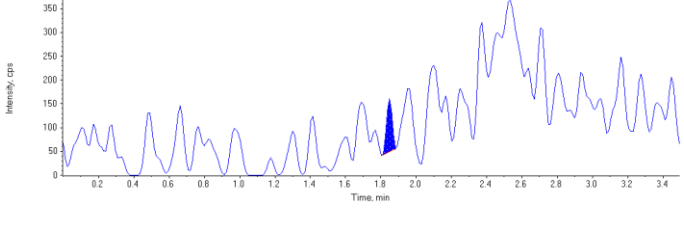
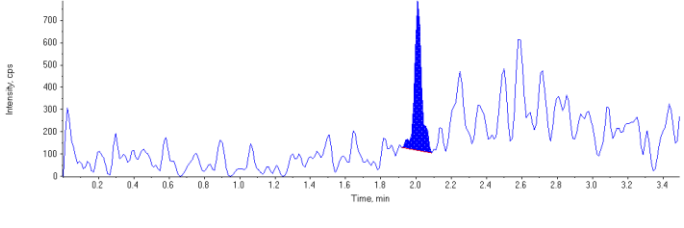
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 79.2 ng/L</p> <p>Area Ratio: 0.0635</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 80.5 ng/L</p> <p>Area Ratio: 0.186</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 82.1 ng/L</p> <p>Area Ratio: 0.170</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 68.3 ng/L</p> <p>Area Ratio: 0.0704</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 68.4 ng/L</p> <p>Area Ratio: 0.120</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 129. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

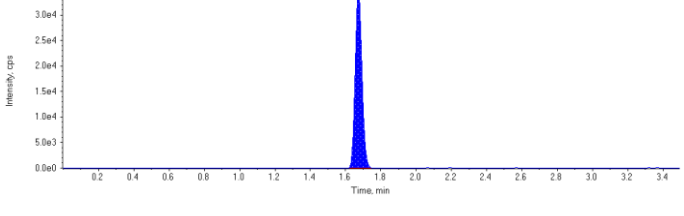
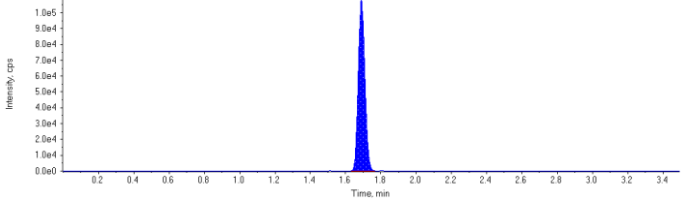
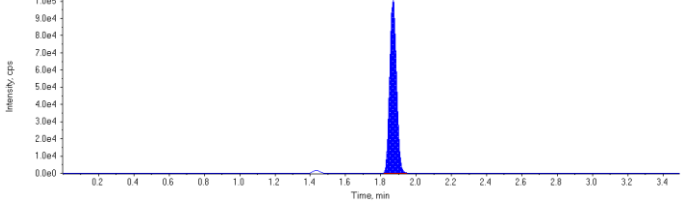
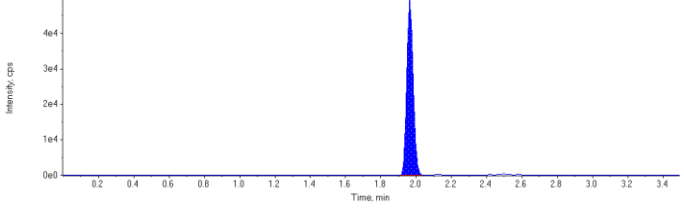
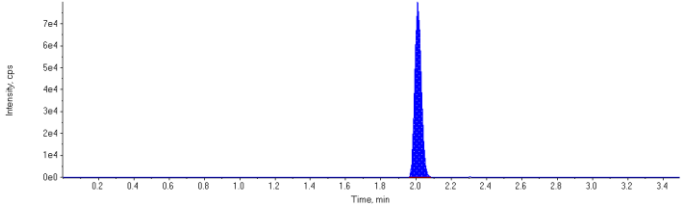
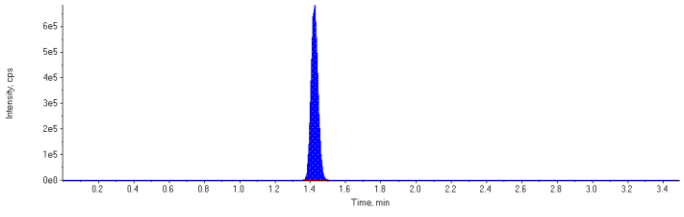
Sample Name	4390179~BVX759-01	Injection Vial	15
Sample ID	4390179~BVX759-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:07:31 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	92600.	1.67	1.00	-
MPFHpA	285000.	1.69	1.00	-
MPFOA	270000.	1.87	1.00	-
MPFOS	124000.	1.96	1.00	-
MPFNA	206000.	2.01	1.00	-
13C6-PFHxA IS	1890000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	1950	1.70	N/A	0.135	N/A
PFOA 1	1760	1.87	N/A	N/A	N/A
PFOS 1	244	1.85	N/A	0.346	N/A
PFNA 1	1880	2.01	N/A	N/A	N/A
18O2-PFHxS	92600	1.67	N/A	61.1	N/A
13C4-PFHpA	285000	1.69	N/A	65.4	N/A
13C4-PFOA	270000	1.87	N/A	68.9	N/A
13C4-PFOS	124000	1.96	N/A	63.9	N/A
13C5-PFNA	206000	2.01	N/A	62.2	N/A
13C6-PFHxA	1890000	1.42	N/A	96.0	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

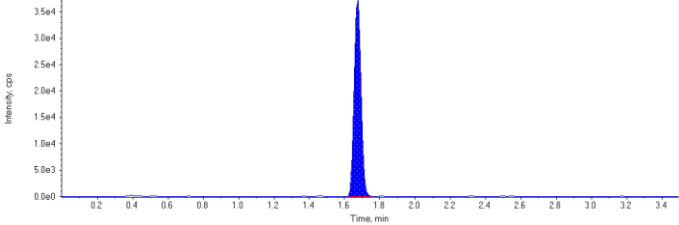
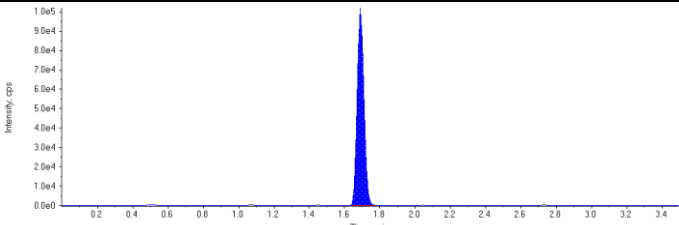
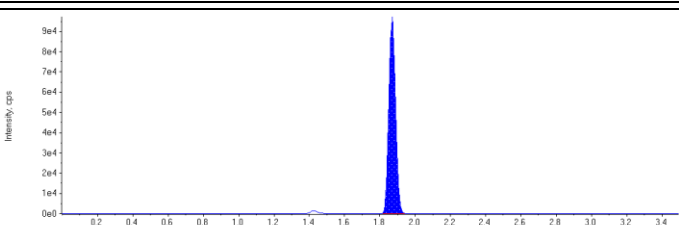
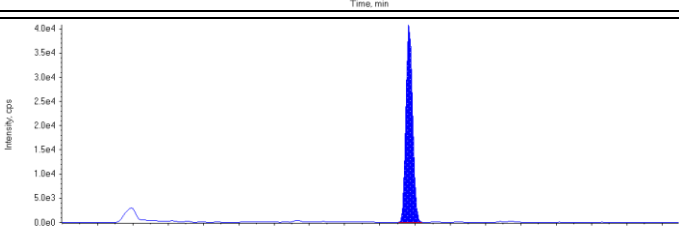
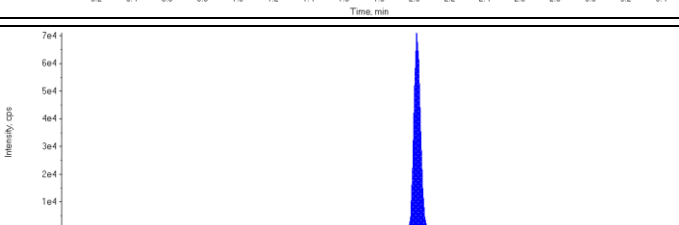
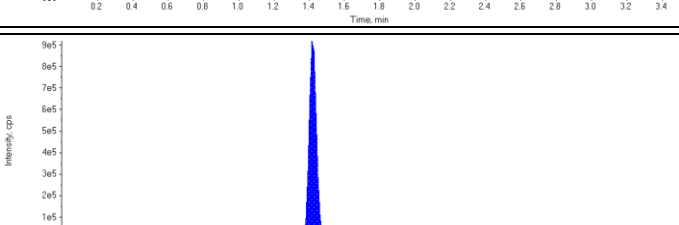
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.09) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.70 (1.70) min</p> <p>Calculated Conc: 0.135 ng/L</p> <p>Area Ratio: 0.00684</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00652</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.85 (1.97) min</p> <p>Calculated Conc: 0.346 ng/L</p> <p>Area Ratio: 0.00196</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00911</p> <p>Sample Type: (Unknown)</p>	

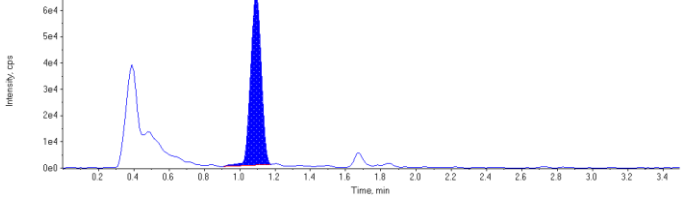
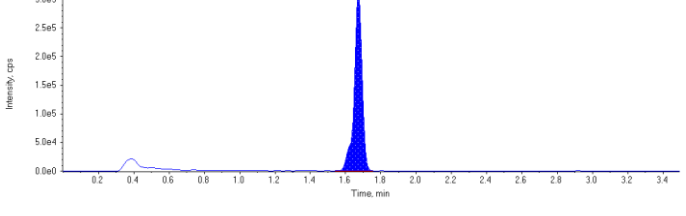
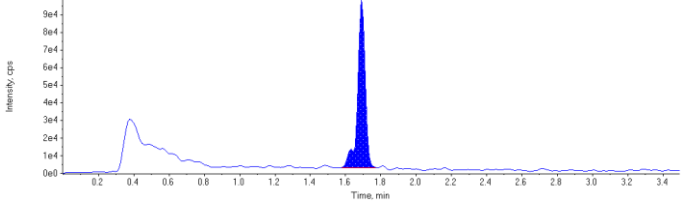
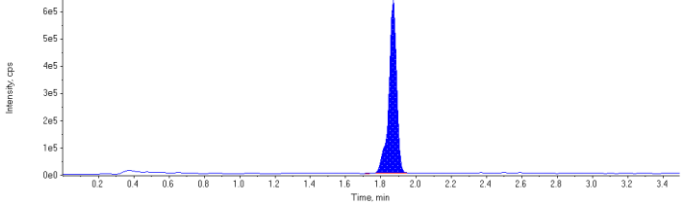
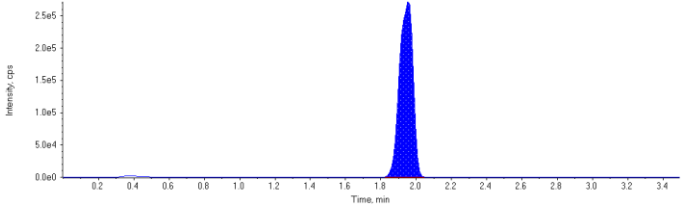
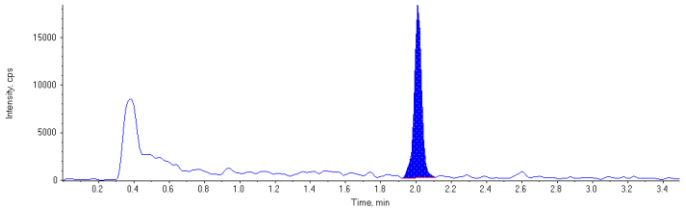
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 61.1 ng/L</p> <p>Area Ratio: 0.0490</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 65.4 ng/L</p> <p>Area Ratio: 0.151</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 68.9 ng/L</p> <p>Area Ratio: 0.143</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 63.9 ng/L</p> <p>Area Ratio: 0.0658</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 62.2 ng/L</p> <p>Area Ratio: 0.109</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 96.0 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

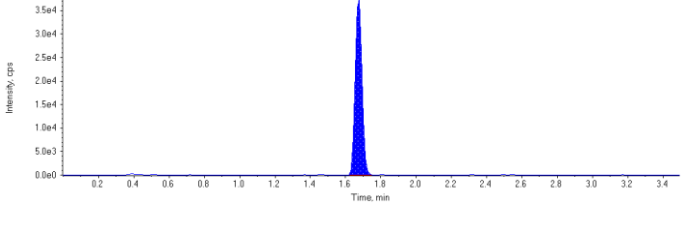
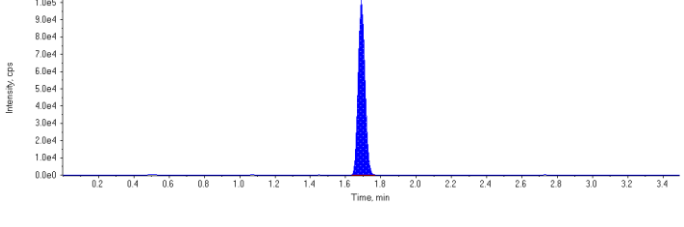
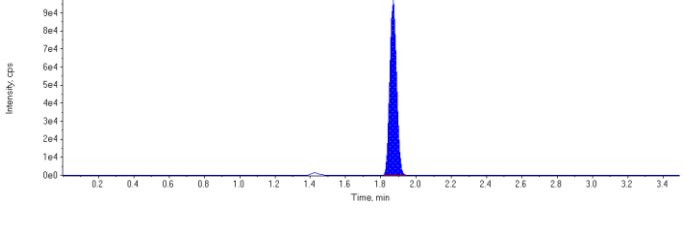
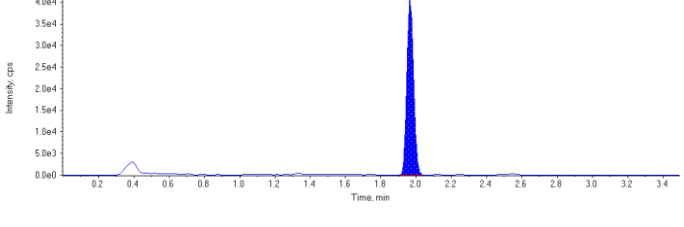
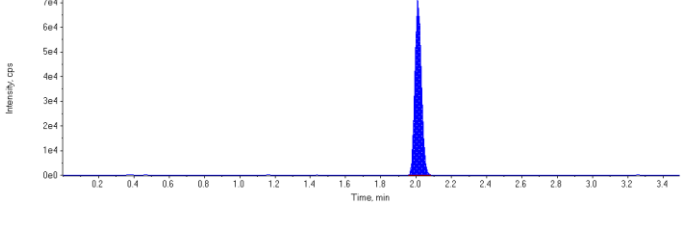
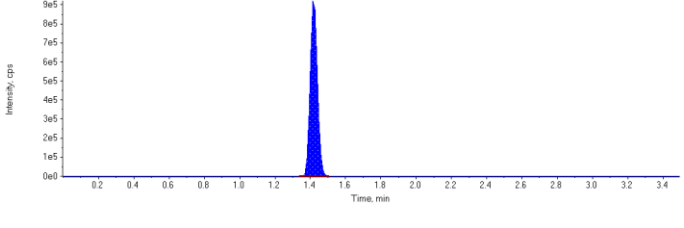
Sample Name	4390179~BVX760-01	Injection Vial	16
Sample ID	4390179~BVX760-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:12:36 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	101000.	1.67	1.00	-
MPFHpA	268000.	1.69	1.00	-
MPFOA	257000.	1.87	1.00	-
MPFOS	107000.	1.97	1.00	-
MPFNA	182000.	2.01	1.00	-
13C6-PFHxA IS	2660000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	270000	1.09	N/A	9.40	N/A
PFHxS 1	961000	1.67	N/A	32.3	N/A
PFHpA 1	284000	1.69	N/A	8.62	N/A
PFOA 1	1930000	1.87	N/A	52.1	N/A
PFOS 1	1470000	1.96	N/A	81.5	N/A
PFNA 1	51700	2.01	N/A	1.91	N/A
18O2-PFHxS	101000	1.67	N/A	47.3	N/A
13C4-PFHpA	268000	1.69	N/A	43.7	N/A
13C4-PFOA	257000	1.87	N/A	46.4	N/A
13C4-PFOS	107000	1.97	N/A	39.2	N/A
13C5-PFNA	182000	2.01	N/A	39.0	N/A
13C6-PFHxA	2660000	1.42	N/A	135.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.97(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

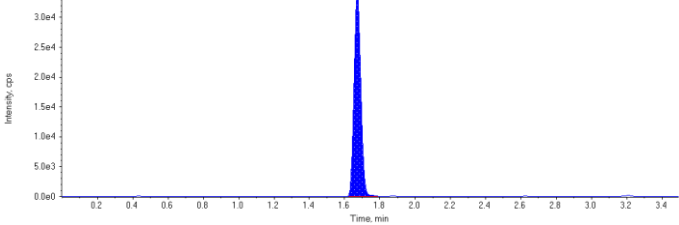
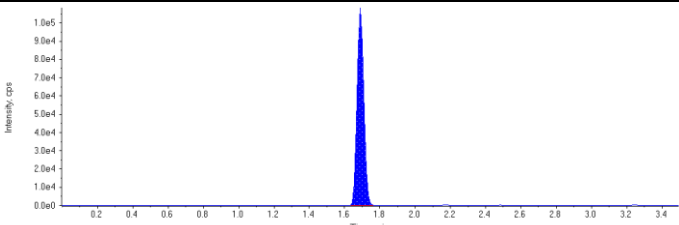
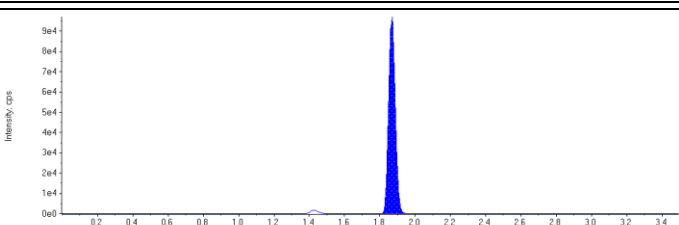
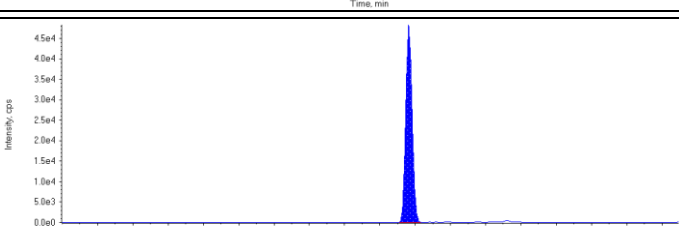
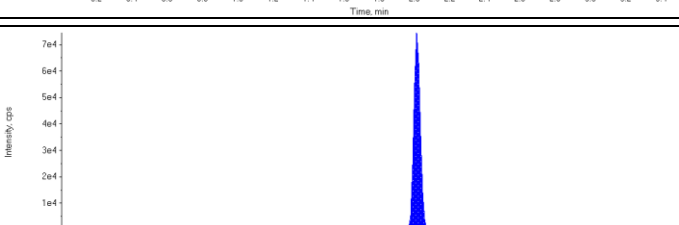
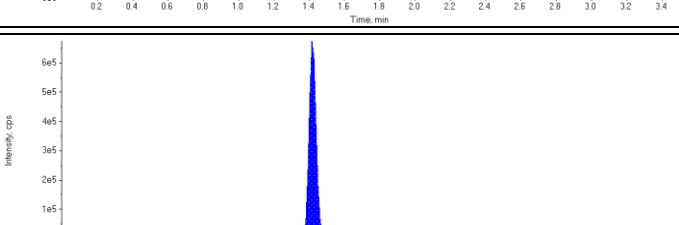
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 9.40 ng/L</p> <p>Area Ratio: 2.68</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 32.3 ng/L</p> <p>Area Ratio: 9.53</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 8.62 ng/L</p> <p>Area Ratio: 1.06</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 52.1 ng/L</p> <p>Area Ratio: 7.54</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 81.5 ng/L</p> <p>Area Ratio: 13.7</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 1.91 ng/L</p> <p>Area Ratio: 0.284</p> <p>Sample Type: (Unknown)</p>	

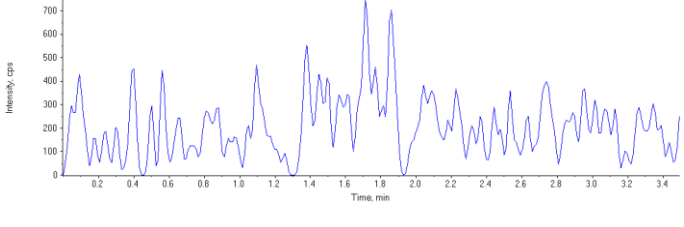
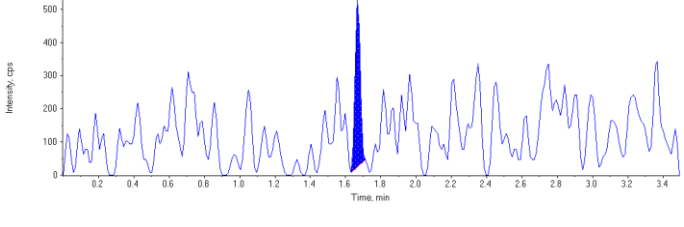
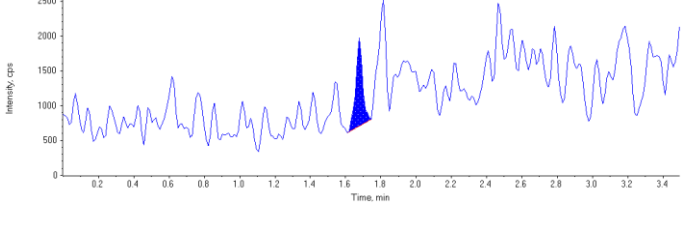
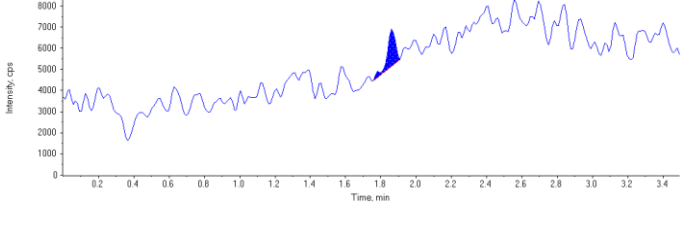
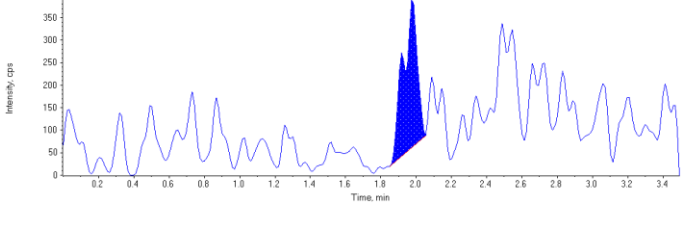
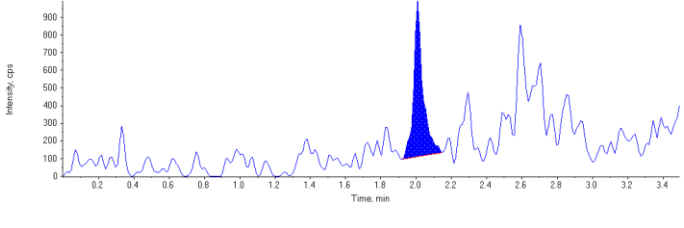
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 47.3 ng/L</p> <p>Area Ratio: 0.0379</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 43.7 ng/L</p> <p>Area Ratio: 0.101</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 46.4 ng/L</p> <p>Area Ratio: 0.0963</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 39.2 ng/L</p> <p>Area Ratio: 0.0403</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 39.0 ng/L</p> <p>Area Ratio: 0.0684</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 135. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

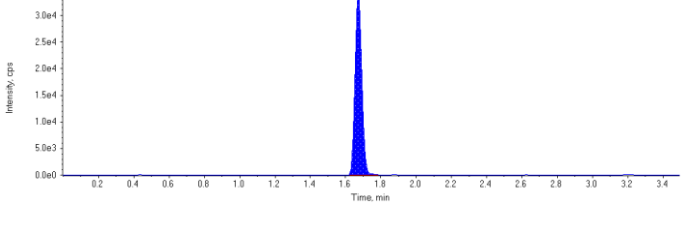
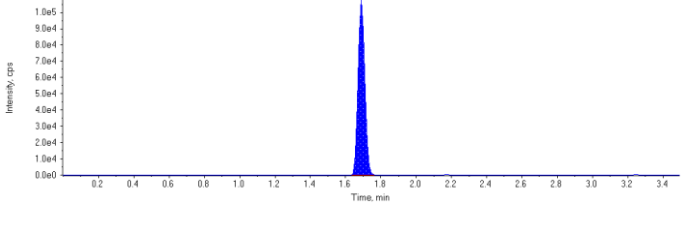
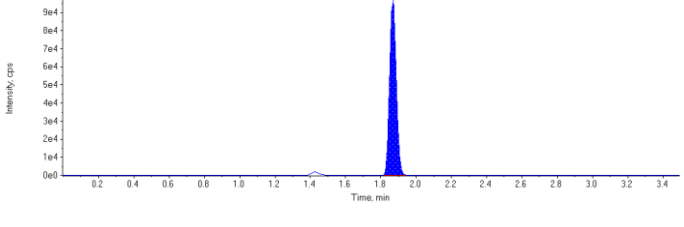
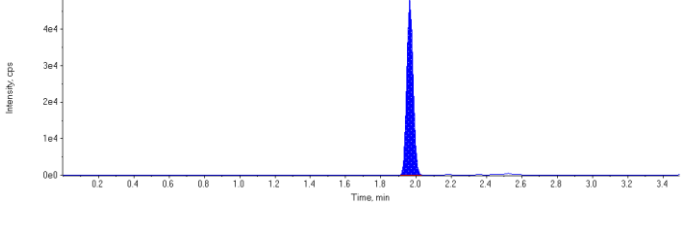
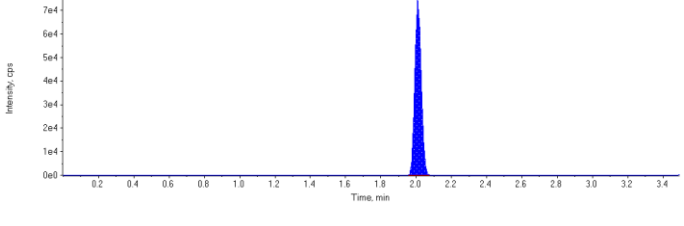
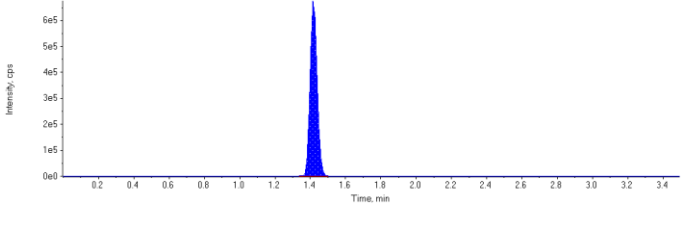
Sample Name	4390179~BVX761-01	Injection Vial	17
Sample ID	4390179~BVX761-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:17:42 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	90900.	1.67	1.00	-
MPFHpA	285000.	1.69	1.00	-
MPFOA	253000.	1.87	1.00	-
MPFOS	121000.	1.96	1.00	-
MPFNA	189000.	2.01	1.00	-
13C6-PFHxA IS	1890000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	1020	1.67	N/A	0.308	N/A
PFHpA 1	3350	1.68	N/A	0.175	N/A
PFOA 1	5550	1.86	N/A	N/A	N/A
PFOS 1	1870	1.98	N/A	0.426	N/A
PFNA 1	3190	2.01	N/A	N/A	N/A
18O2-PFHxS	90900	1.67	N/A	60.1	N/A
13C4-PFHpA	285000	1.69	N/A	65.4	N/A
13C4-PFOA	253000	1.87	N/A	64.7	N/A
13C4-PFOS	121000	1.96	N/A	62.1	N/A
13C5-PFNA	189000	2.01	N/A	57.1	N/A
13C6-PFHxA	1890000	1.42	N/A	95.8	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

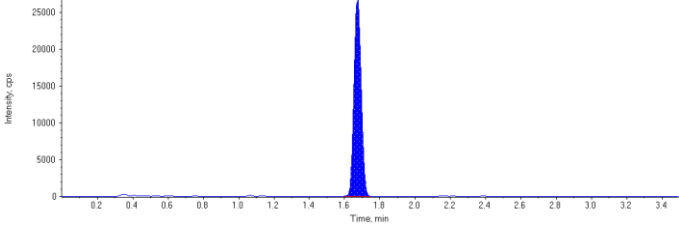
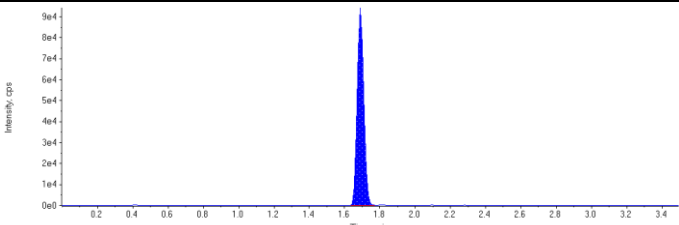
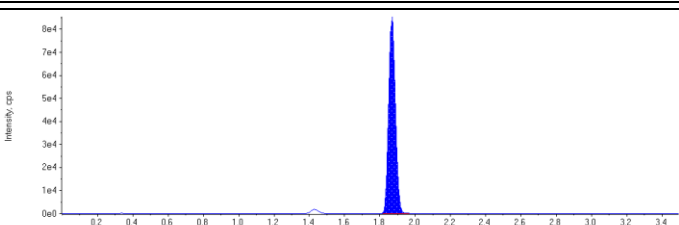
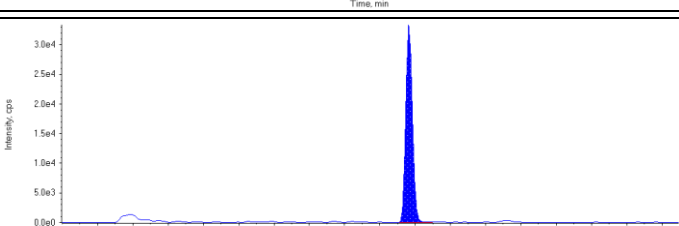
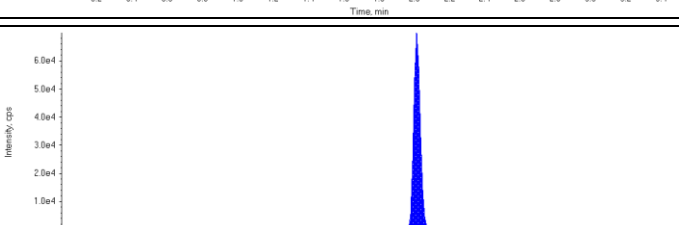
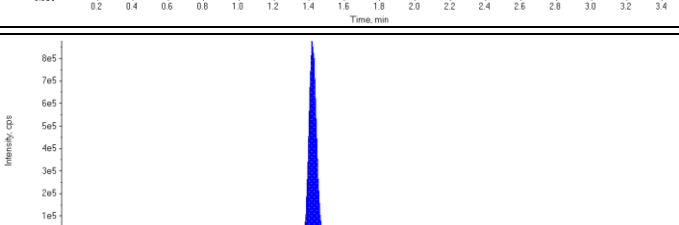
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.09) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 0.308 ng/L</p> <p>Area Ratio: 0.0112</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.68 (1.70) min</p> <p>Calculated Conc: 0.175 ng/L</p> <p>Area Ratio: 0.0118</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0219</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.98 (1.97) min</p> <p>Calculated Conc: 0.426 ng/L</p> <p>Area Ratio: 0.0155</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0169</p> <p>Sample Type: (Unknown)</p>	

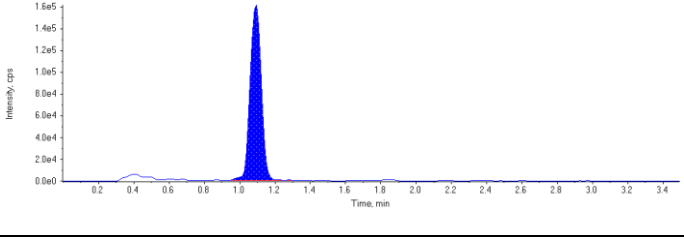
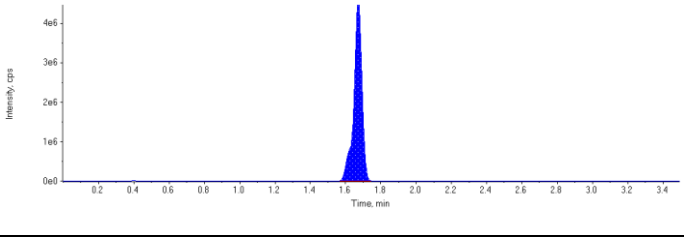
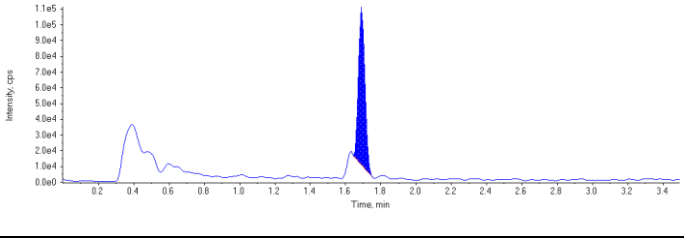
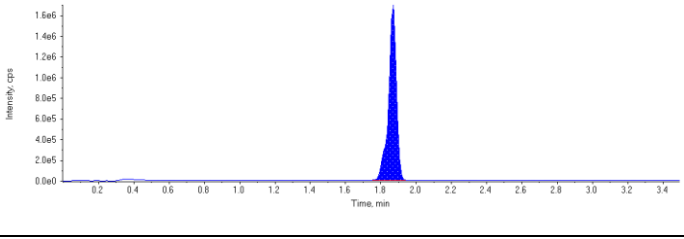
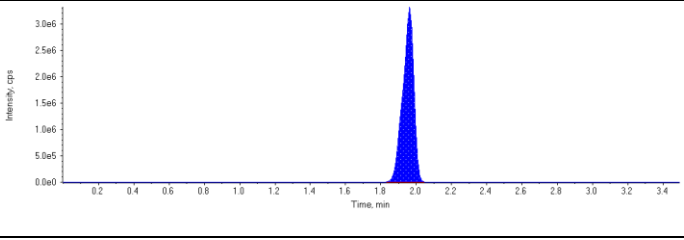
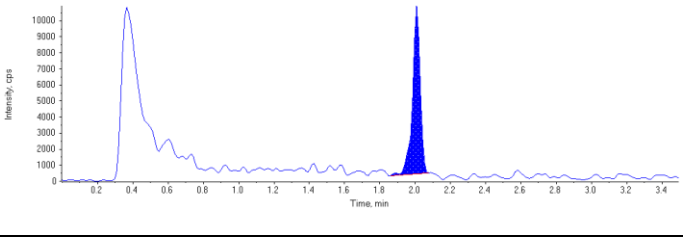
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 60.1 ng/L</p> <p>Area Ratio: 0.0482</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 65.4 ng/L</p> <p>Area Ratio: 0.151</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 64.7 ng/L</p> <p>Area Ratio: 0.134</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 62.1 ng/L</p> <p>Area Ratio: 0.0639</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 57.1 ng/L</p> <p>Area Ratio: 0.100</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 95.8 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

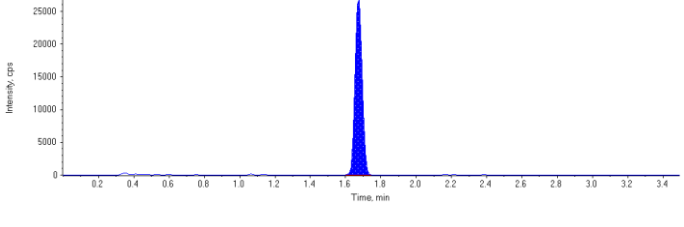
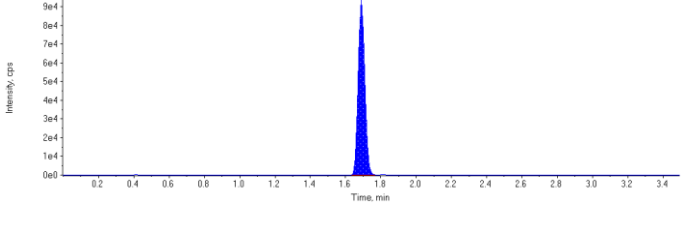
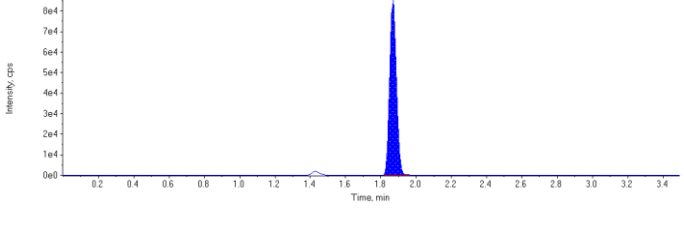
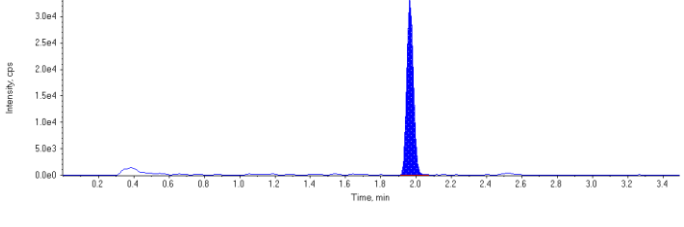
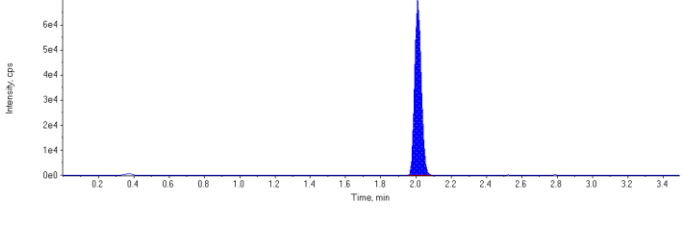
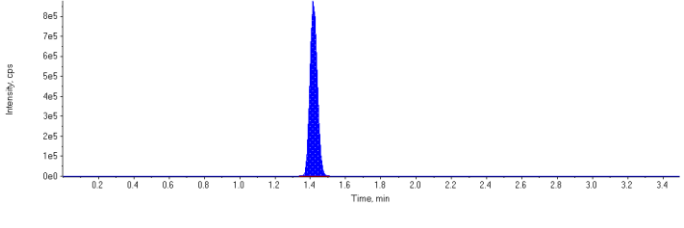
Sample Name	4390179~BVX762-01	Injection Vial	18
Sample ID	4390179~BVX762-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:22:47 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	76300.	1.67	1.00	-
MPFHpA	243000.	1.69	1.00	-
MPFOA	225000.	1.87	1.00	-
MPFOS	86400.	1.96	1.00	-
MPFNA	180000.	2.01	1.00	-
13C6-PFHxA IS	2570000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	710000	1.09	N/A	31.0	N/A
PFHxS 1	14700000	1.67	N/A	650.	N/A
PFHpA 1	249000	1.69	N/A	8.36	N/A
PFOA 1	5260000	1.87	N/A	161.	N/A
PFOS 1	14400000	1.96	N/A	988.	N/A
PFNA 1	31700	2.01	N/A	1.10	N/A
18O2-PFHxS	76300	1.67	N/A	37.1	N/A
13C4-PFHpA	243000	1.69	N/A	40.9	N/A
13C4-PFOA	225000	1.87	N/A	42.3	N/A
13C4-PFOS	86400	1.96	N/A	32.6	N/A
13C5-PFNA	180000	2.01	N/A	40.0	N/A
13C6-PFHxA	2570000	1.42	N/A	130.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

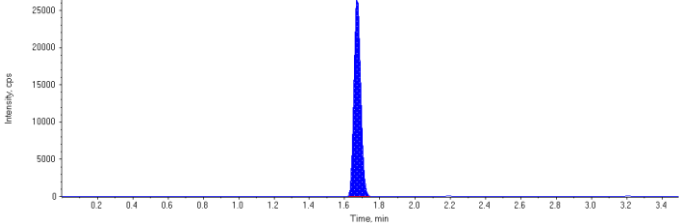
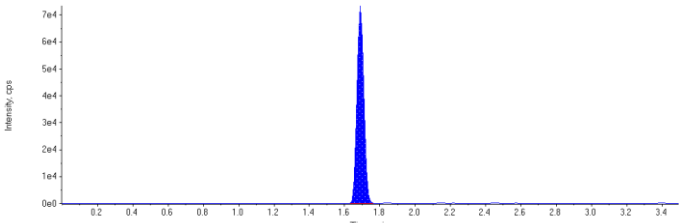
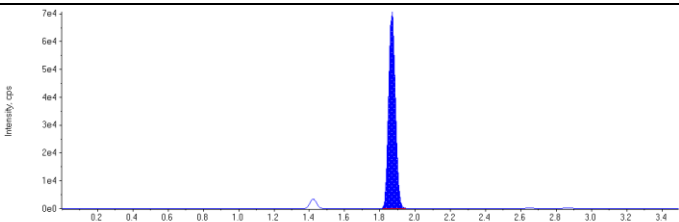
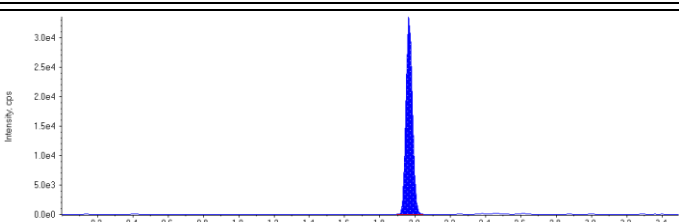
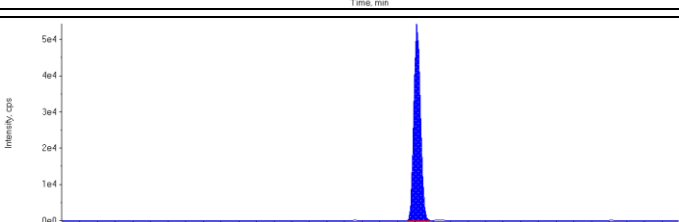
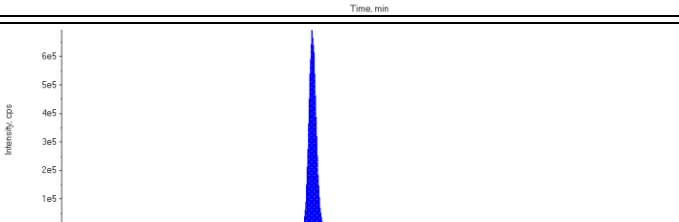
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 31.0 ng/L</p> <p>Area Ratio: 9.30</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 650. ng/L</p> <p>Area Ratio: 193.</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 8.36 ng/L</p> <p>Area Ratio: 1.03</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 161. ng/L</p> <p>Area Ratio: 23.3</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 988. ng/L</p> <p>Area Ratio: 167.</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 1.10 ng/L</p> <p>Area Ratio: 0.176</p> <p>Sample Type: (Unknown)</p>	

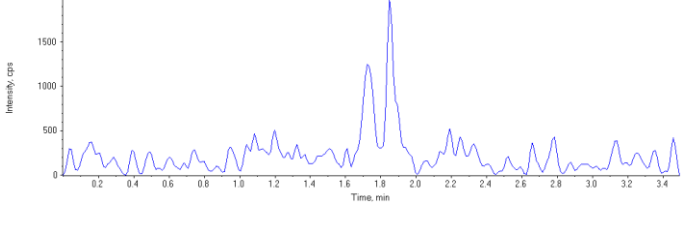
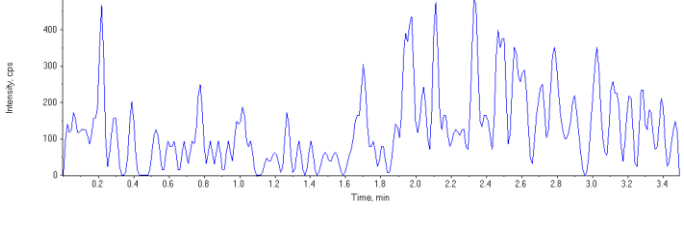
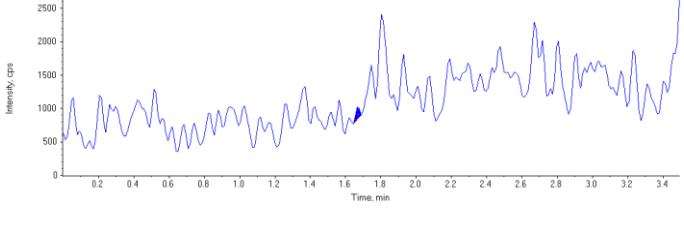
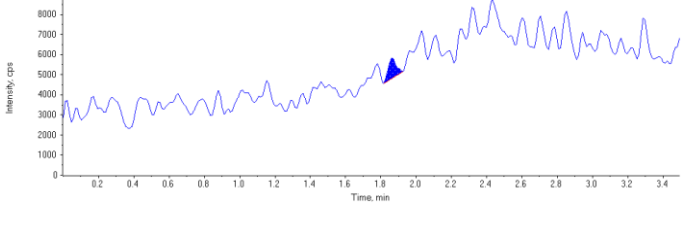
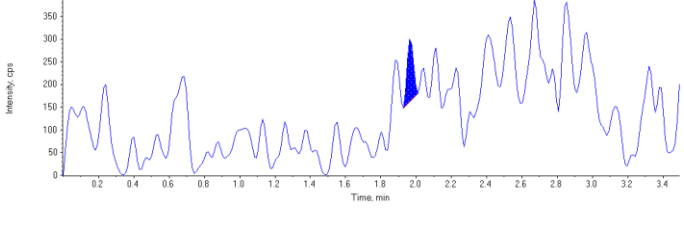
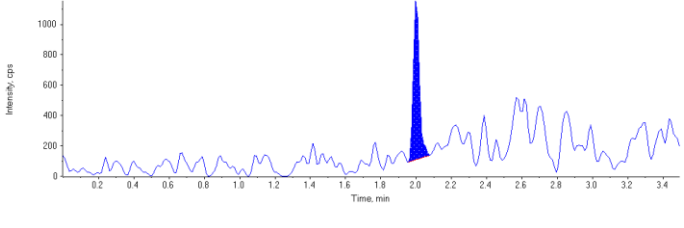
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 37.1 ng/L</p> <p>Area Ratio: 0.0297</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 40.9 ng/L</p> <p>Area Ratio: 0.0945</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 42.3 ng/L</p> <p>Area Ratio: 0.0877</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 32.6 ng/L</p> <p>Area Ratio: 0.0336</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 40.0 ng/L</p> <p>Area Ratio: 0.0701</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 130. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

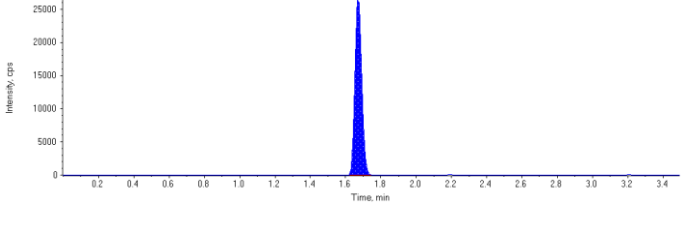
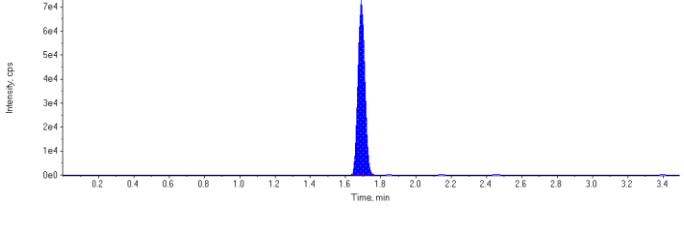
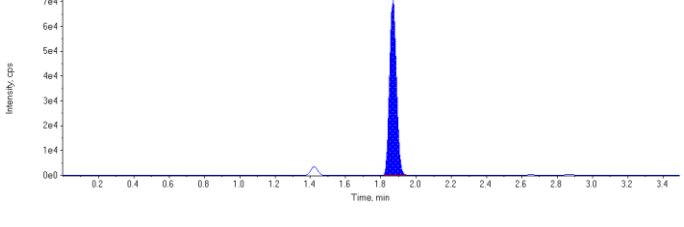
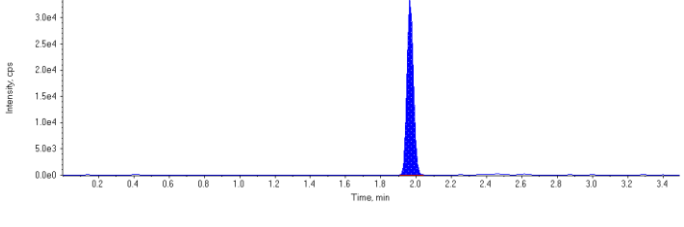
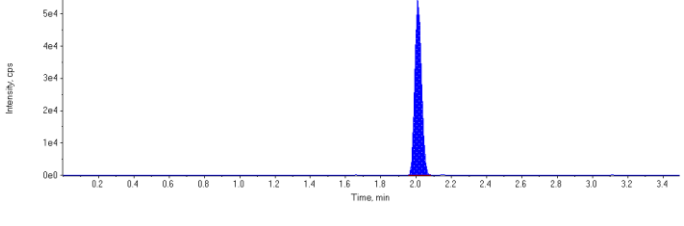
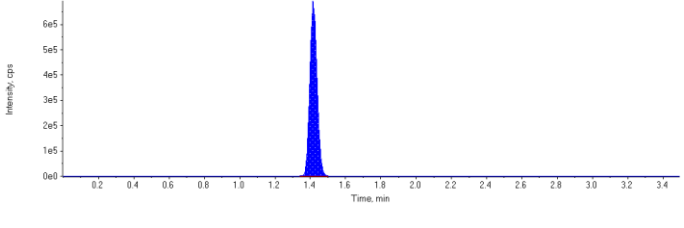
Sample Name	4390179~BVX763-01	Injection Vial	19
Sample ID	4390179~BVX763-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:27:52 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	72100.	1.67	1.00	-
MPFHpA	197000.	1.69	1.00	-
MPFOA	187000.	1.87	1.00	-
MPFOS	85300.	1.97	1.00	-
MPFNA	142000.	2.01	1.00	-
13C6-PFHxA IS	1980000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	273	1.67	N/A	0.0909	N/A
PFOA 1	3210	1.86	N/A	N/A	N/A
PFOS 1	339	1.97	N/A	0.358	N/A
PFNA 1	2530	2.00	N/A	N/A	N/A
18O2-PFHxS	72100	1.67	N/A	45.5	N/A
13C4-PFHpA	197000	1.69	N/A	43.1	N/A
13C4-PFOA	187000	1.87	N/A	45.7	N/A
13C4-PFOS	85300	1.97	N/A	41.9	N/A
13C5-PFNA	142000	2.01	N/A	41.1	N/A
13C6-PFHxA	1980000	1.42	N/A	100.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.97(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

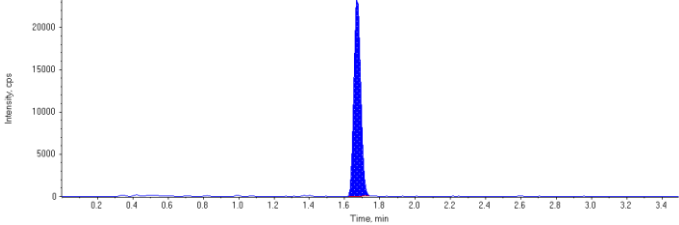
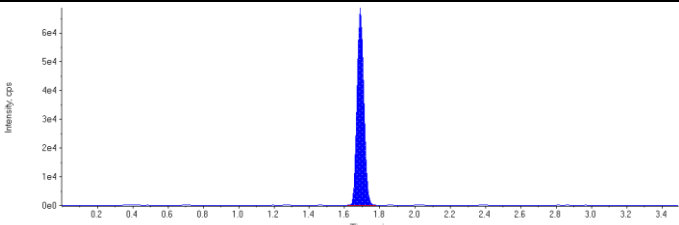
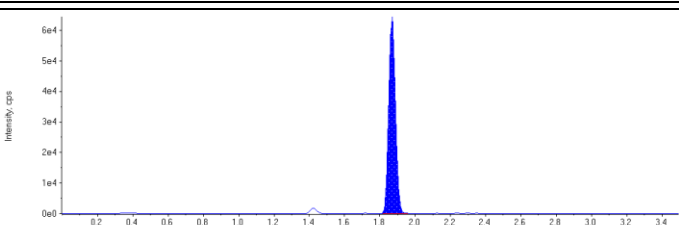
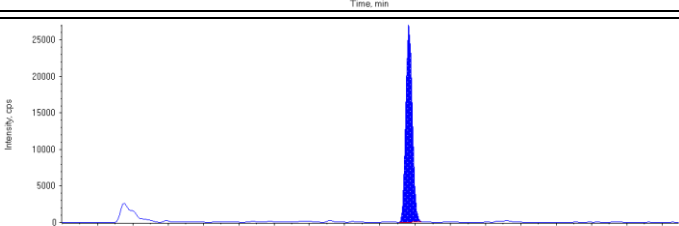
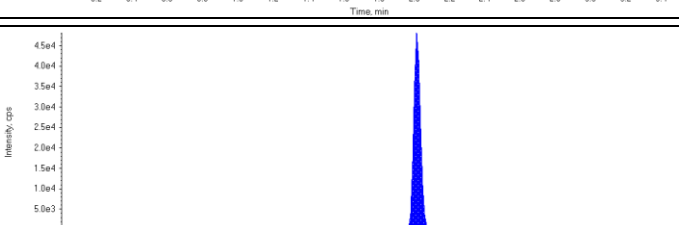
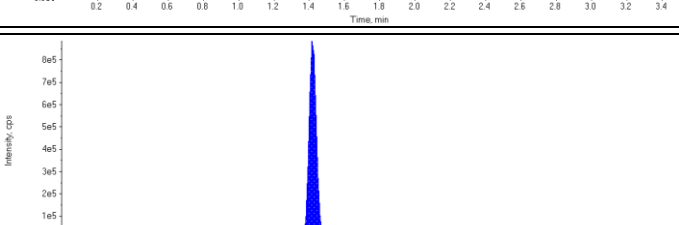
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.09) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.70) min</p> <p>Calculated Conc: 0.0909 ng/L</p> <p>Area Ratio: 0.00139</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0171</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 0.358 ng/L</p> <p>Area Ratio: 0.00398</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0177</p> <p>Sample Type: (Unknown)</p>	

<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 45.5 ng/L</p> <p>Area Ratio: 0.0365</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 43.1 ng/L</p> <p>Area Ratio: 0.0994</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 45.7 ng/L</p> <p>Area Ratio: 0.0948</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 41.9 ng/L</p> <p>Area Ratio: 0.0432</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 41.1 ng/L</p> <p>Area Ratio: 0.0720</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 100. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

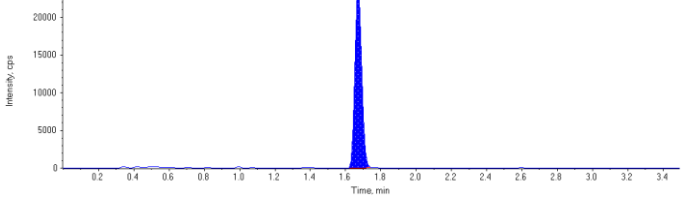
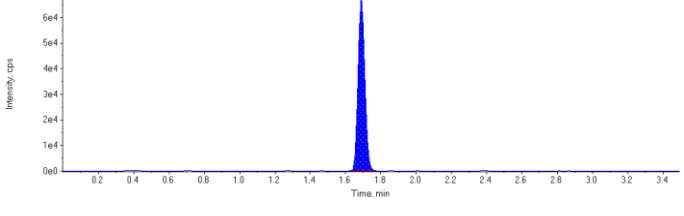
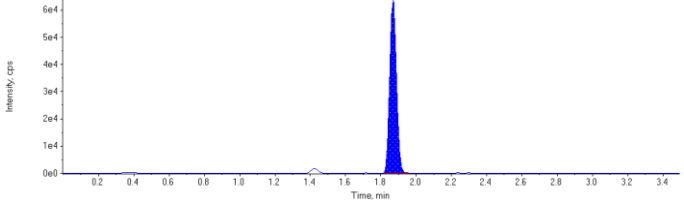
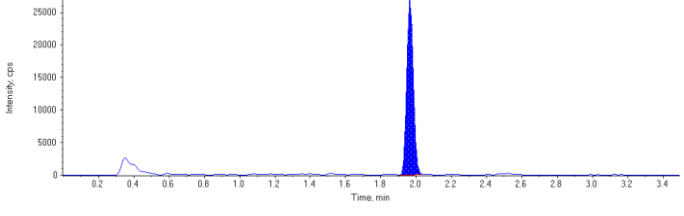
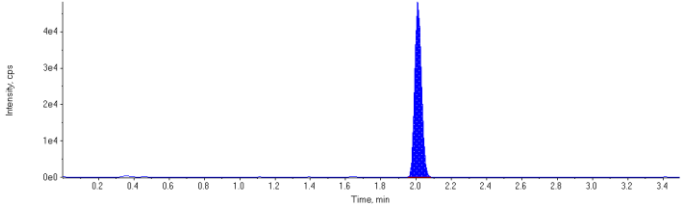
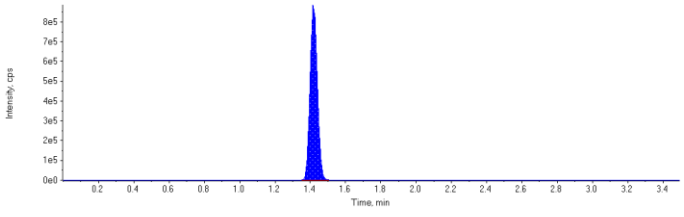
Sample Name	4390179~BVX764-01	Injection Vial	20
Sample ID	4390179~BVX764-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:32:58 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	63700.	1.67	1.00	-
MPFHpA	182000.	1.69	1.00	-
MPFOA	171000.	1.87	1.00	-
MPFOS	69200.	1.96	1.00	-
MPFNA	128000.	2.01	1.00	-
13C6-PFHxA IS	2570000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	1400	1.71	N/A	0.142	N/A
PFOA 1	5950	1.89	N/A	0.0689	N/A
PFOS 1	1070	1.95	N/A	0.426	N/A
PFNA 1	2290	2.02	N/A	N/A	N/A
18O2-PFHxS	63700	1.67	N/A	30.9	N/A
13C4-PFHpA	182000	1.69	N/A	30.7	N/A
13C4-PFOA	171000	1.87	N/A	32.0	N/A
13C4-PFOS	69200	1.96	N/A	26.1	N/A
13C5-PFNA	128000	2.01	N/A	28.3	N/A
13C6-PFHxA	2570000	1.42	N/A	130.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

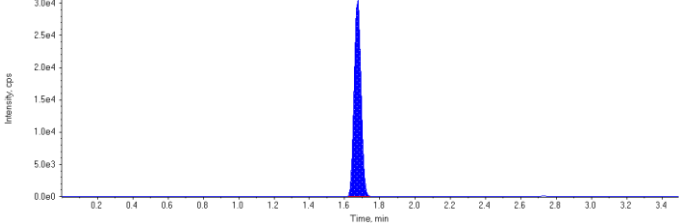
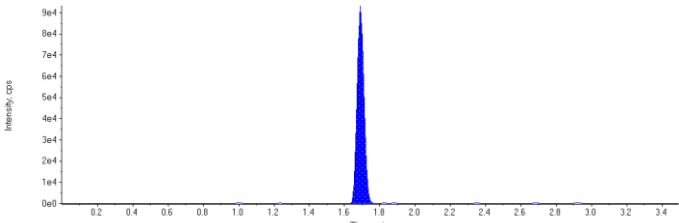
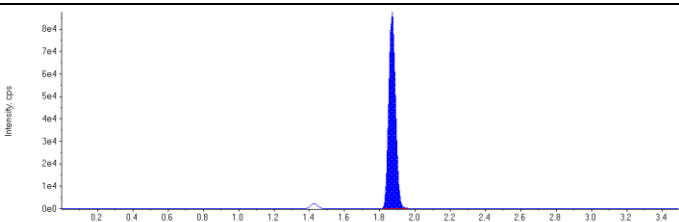
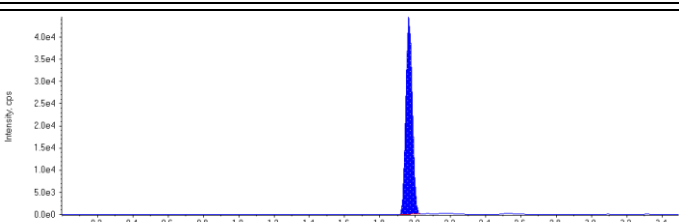
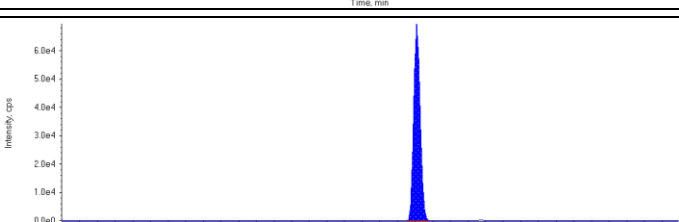
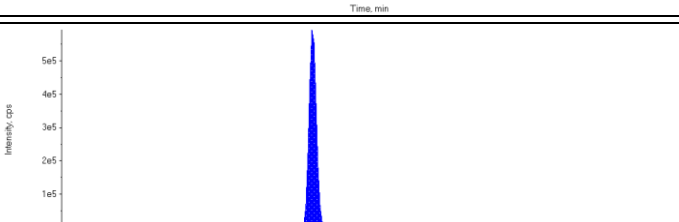
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.09) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.71 (1.70) min</p> <p>Calculated Conc: 0.142 ng/L</p> <p>Area Ratio: 0.00769</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.89 (1.88) min</p> <p>Calculated Conc: 0.0689 ng/L</p> <p>Area Ratio: 0.0349</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 0.426 ng/L</p> <p>Area Ratio: 0.0154</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.02 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0179</p> <p>Sample Type: (Unknown)</p>	

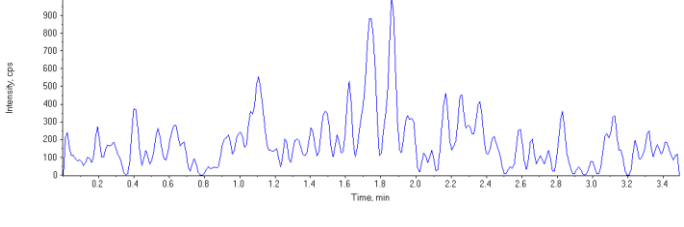
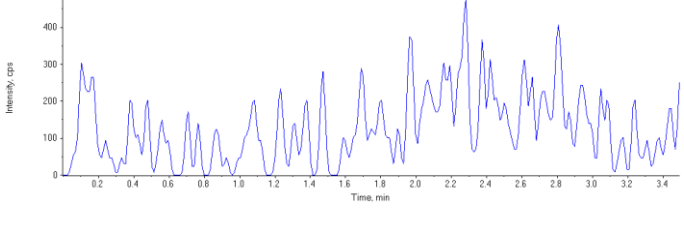
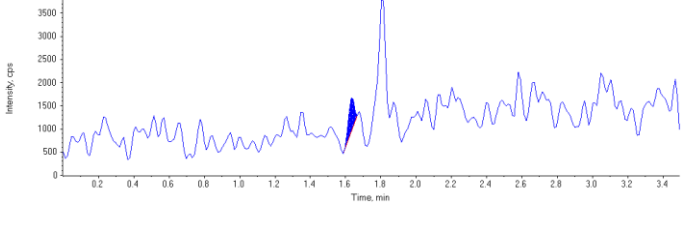
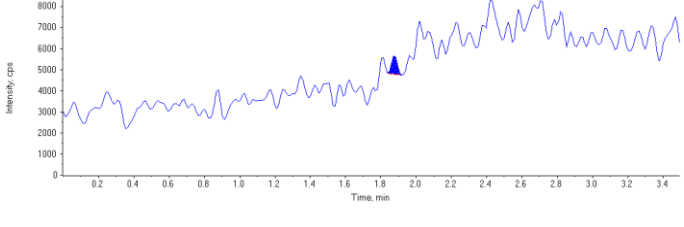
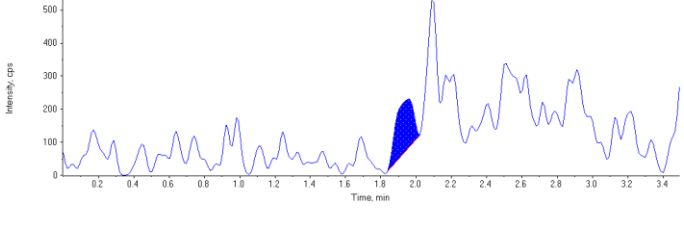
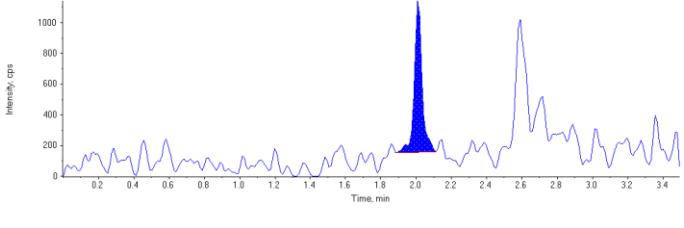
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 30.9 ng/L</p> <p>Area Ratio: 0.0248</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 30.7 ng/L</p> <p>Area Ratio: 0.0708</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 32.0 ng/L</p> <p>Area Ratio: 0.0664</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 26.1 ng/L</p> <p>Area Ratio: 0.0269</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 28.3 ng/L</p> <p>Area Ratio: 0.0497</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 130. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

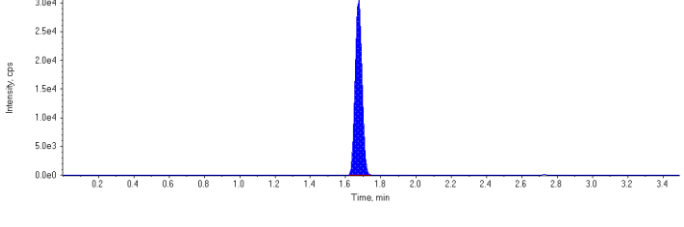
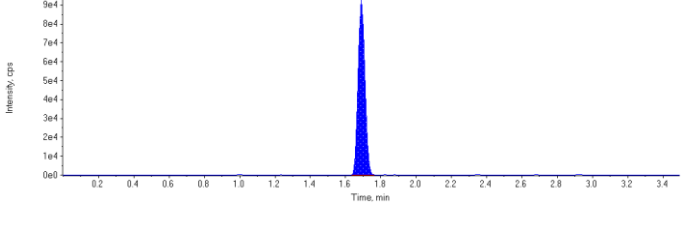
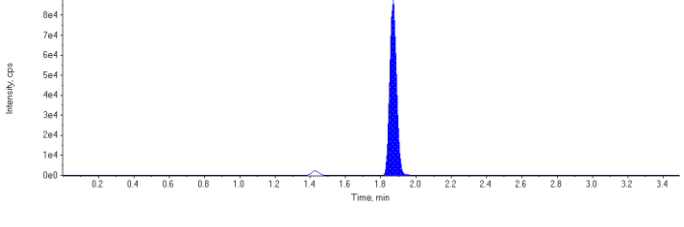
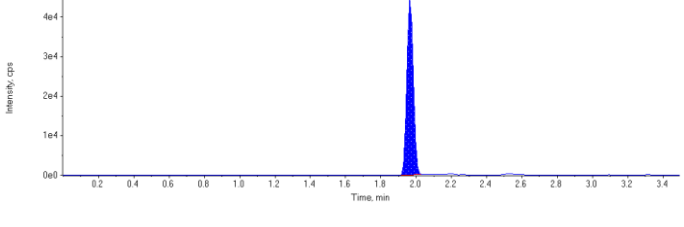
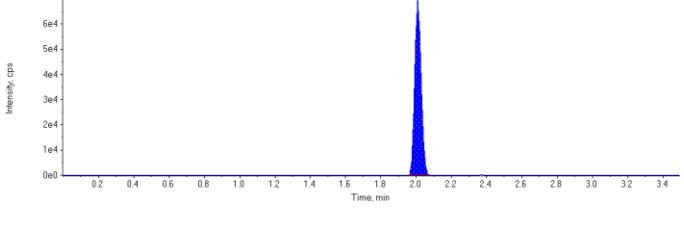
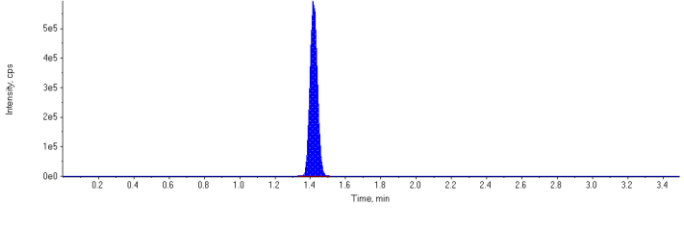
Sample Name	4390179~BVX765-01	Injection Vial	21
Sample ID	4390179~BVX765-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:38:04 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	83100.	1.67	1.00	-
MPFHpA	248000.	1.69	1.00	-
MPFOA	229000.	1.87	1.00	-
MPFOS	113000.	1.97	1.00	-
MPFNA	177000.	2.01	1.00	-
13C6-PFHxA IS	1740000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	1620	1.64	N/A	0.132	N/A
PFOA 1	1970	1.88	N/A	N/A	N/A
PFOS 1	1090	1.96	N/A	0.391	N/A
PFNA 1	3020	2.01	N/A	N/A	N/A
18O2-PFHxS	83100	1.67	N/A	59.7	N/A
13C4-PFHpA	248000	1.69	N/A	61.8	N/A
13C4-PFOA	229000	1.87	N/A	63.6	N/A
13C4-PFOS	113000	1.97	N/A	63.2	N/A
13C5-PFNA	177000	2.01	N/A	58.3	N/A
13C6-PFHxA	1740000	1.42	N/A	88.2	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.97(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

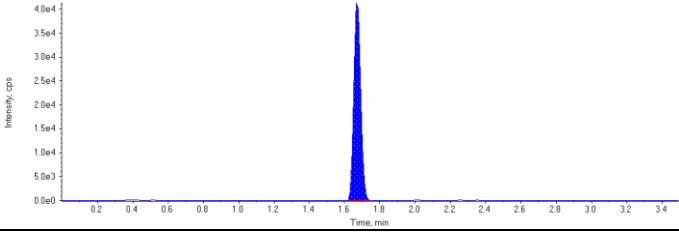
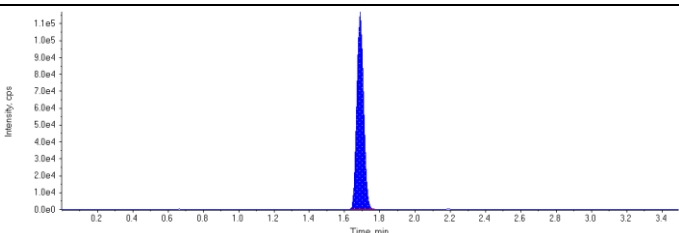
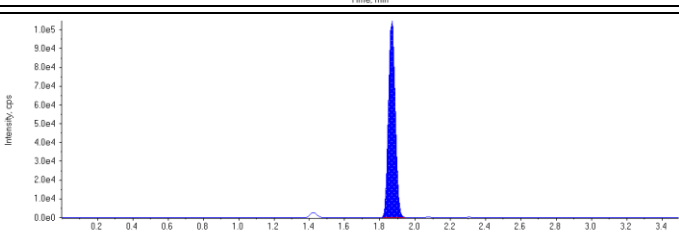
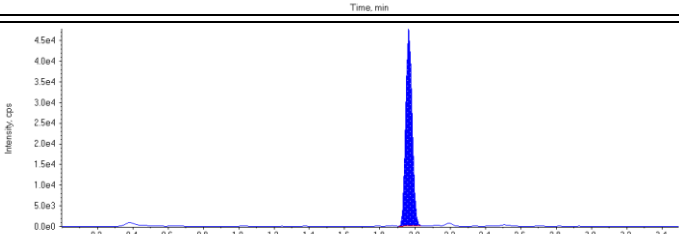
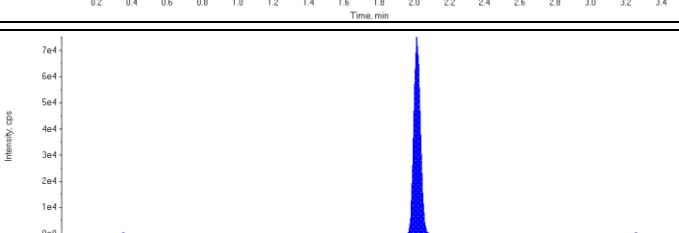
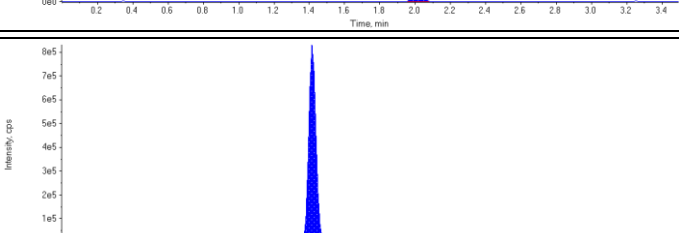
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.09) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.64 (1.70) min</p> <p>Calculated Conc: 0.132 ng/L</p> <p>Area Ratio: 0.00654</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.88 (1.88) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00861</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 0.391 ng/L</p> <p>Area Ratio: 0.00960</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0170</p> <p>Sample Type: (Unknown)</p>	

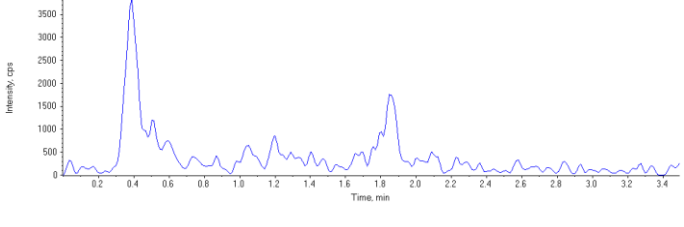
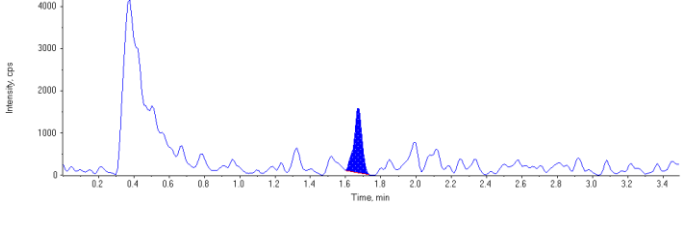
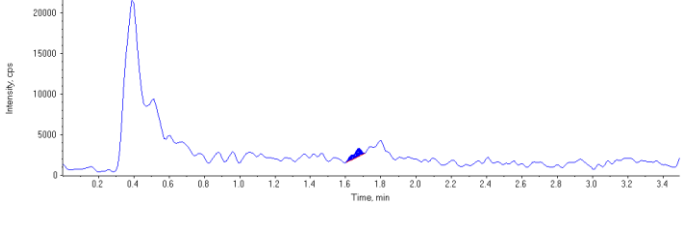
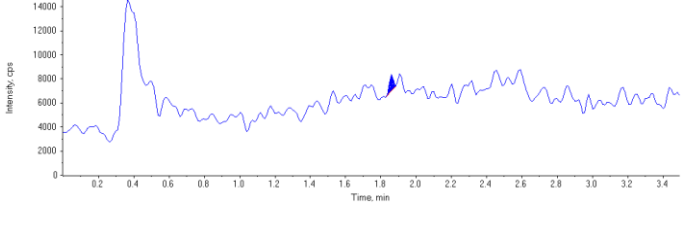
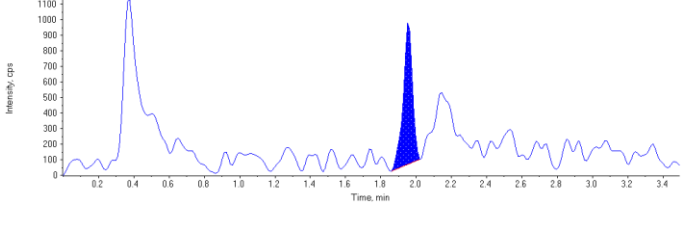
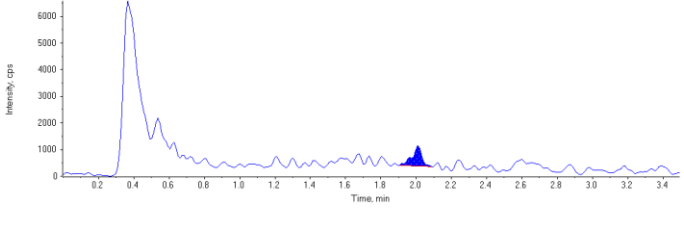
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 59.7 ng/L</p> <p>Area Ratio: 0.0479</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 61.8 ng/L</p> <p>Area Ratio: 0.143</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 63.6 ng/L</p> <p>Area Ratio: 0.132</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 63.2 ng/L</p> <p>Area Ratio: 0.0651</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 58.3 ng/L</p> <p>Area Ratio: 0.102</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 88.2 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

Sample Name	4390179~BVX766-01	Injection Vial	22
Sample ID	4390179~BVX766-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:43:10 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	112000.	1.67	1.00	-
MPFHpA	308000.	1.69	1.00	-
MPFOA	278000.	1.87	1.00	-
MPFOS	120000.	1.96	1.00	-
MPFNA	196000.	2.01	1.00	-
13C6-PFHxA IS	2350000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	4870	1.67	N/A	0.416	N/A
PFHpA 1	3580	1.68	N/A	0.173	N/A
PFOA 1	2060	1.86	N/A	N/A	N/A
PFOS 1	3310	1.96	N/A	0.498	N/A
PFNA 1	2910	2.01	N/A	N/A	N/A
18O2-PFHxS	112000	1.67	N/A	59.4	N/A
13C4-PFHpA	308000	1.69	N/A	56.7	N/A
13C4-PFOA	278000	1.87	N/A	57.0	N/A
13C4-PFOS	120000	1.96	N/A	49.5	N/A
13C5-PFNA	196000	2.01	N/A	47.5	N/A
13C6-PFHxA	2350000	1.42	N/A	119.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

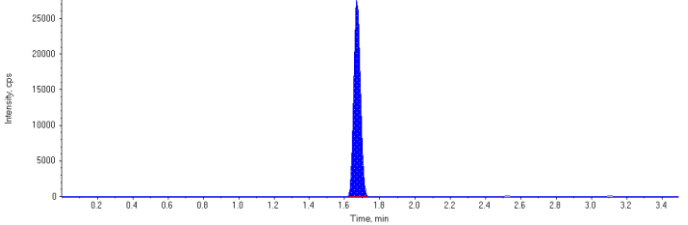
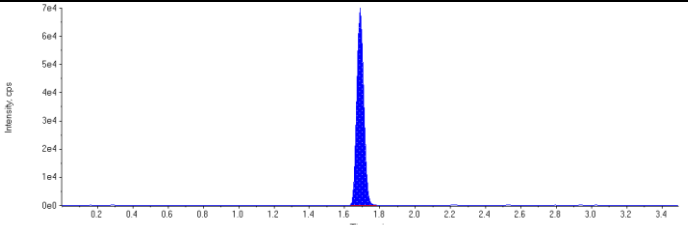
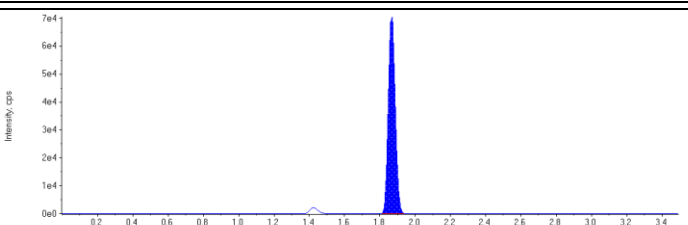
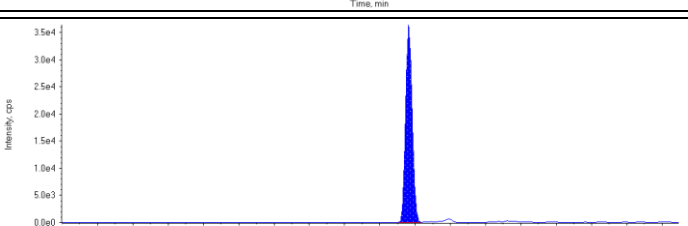
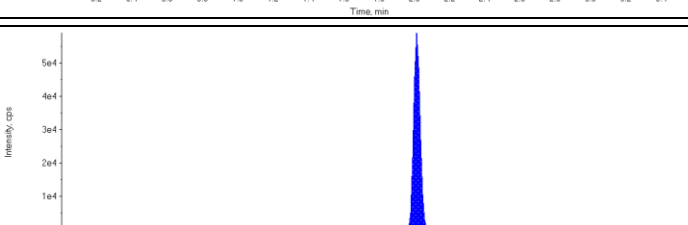
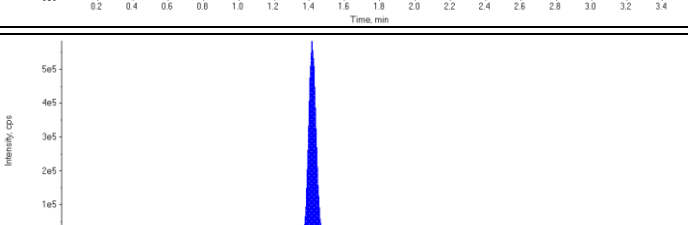
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.09) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 0.416 ng/L</p> <p>Area Ratio: 0.0434</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.68 (1.70) min</p> <p>Calculated Conc: 0.173 ng/L</p> <p>Area Ratio: 0.0116</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00741</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 0.498 ng/L</p> <p>Area Ratio: 0.0276</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0148</p> <p>Sample Type: (Unknown)</p>	

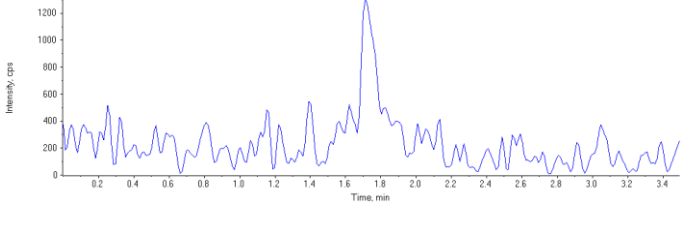
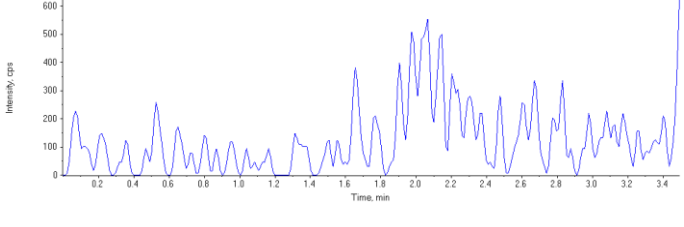
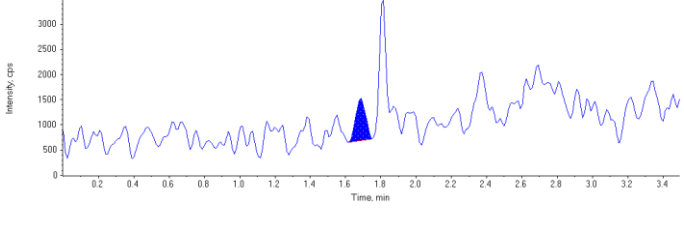
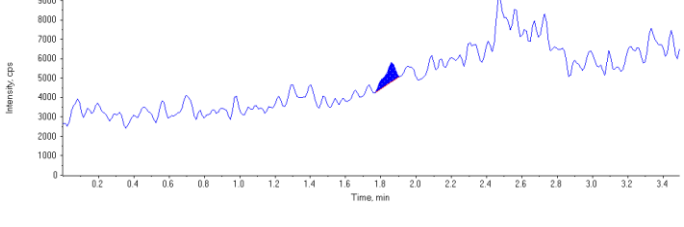
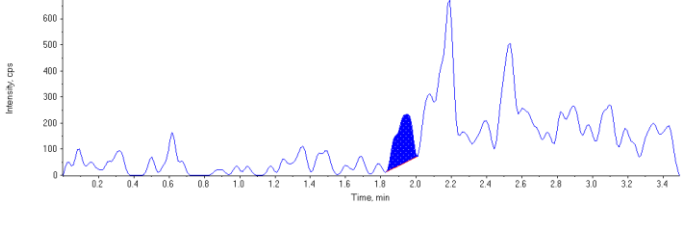
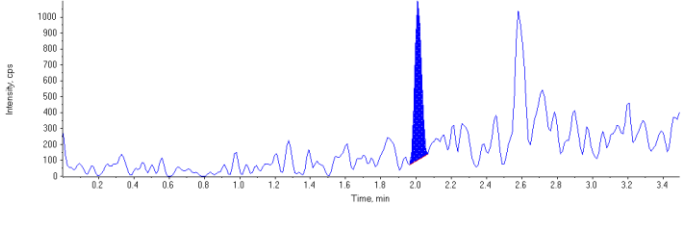
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 59.4 ng/L</p> <p>Area Ratio: 0.0476</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 56.7 ng/L</p> <p>Area Ratio: 0.131</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 57.0 ng/L</p> <p>Area Ratio: 0.118</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 49.5 ng/L</p> <p>Area Ratio: 0.0510</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 47.5 ng/L</p> <p>Area Ratio: 0.0834</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 119. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

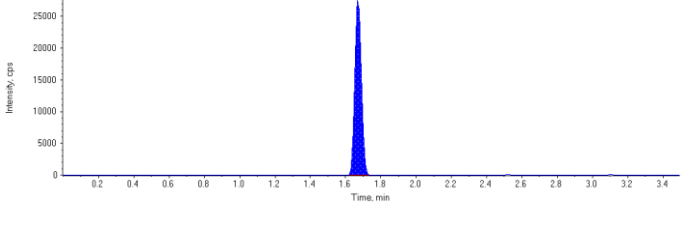
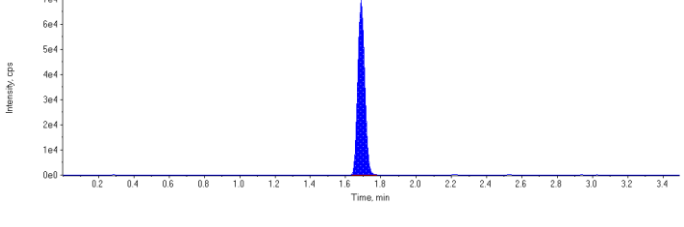
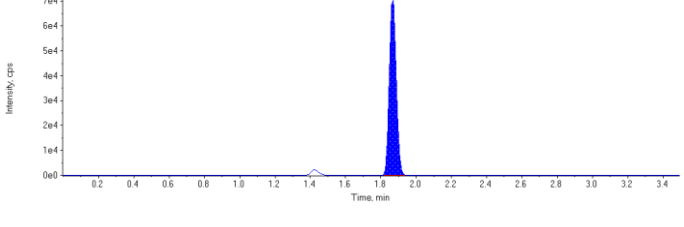
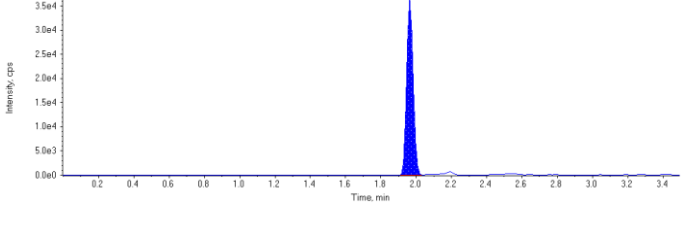
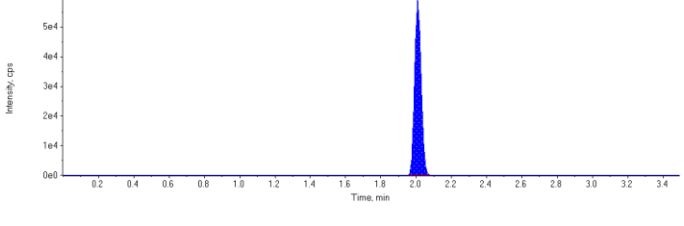
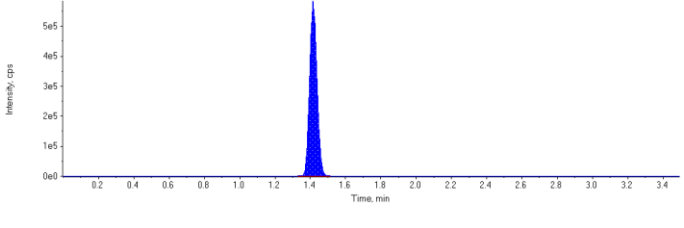
Sample Name	4390179~BVX767-01	Injection Vial	23
Sample ID	4390179~BVX767-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:53:21 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	72200.	1.67	1.00	-
MPFHpA	189000.	1.69	1.00	-
MPFOA	193000.	1.87	1.00	-
MPFOS	92700.	1.96	1.00	-
MPFNA	151000.	2.01	1.00	-
13C6-PFHxA IS	1710000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	3220	1.69	N/A	0.217	N/A
PFOA 1	4100	1.86	N/A	N/A	N/A
PFOS 1	1180	1.95	N/A	0.410	N/A
PFNA 1	2580	2.01	N/A	N/A	N/A
18O2-PFHxS	72200	1.67	N/A	52.7	N/A
13C4-PFHpA	189000	1.69	N/A	47.9	N/A
13C4-PFOA	193000	1.87	N/A	54.3	N/A
13C4-PFOS	92700	1.96	N/A	52.6	N/A
13C5-PFNA	151000	2.01	N/A	50.3	N/A
13C6-PFHxA	1710000	1.42	N/A	86.8	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

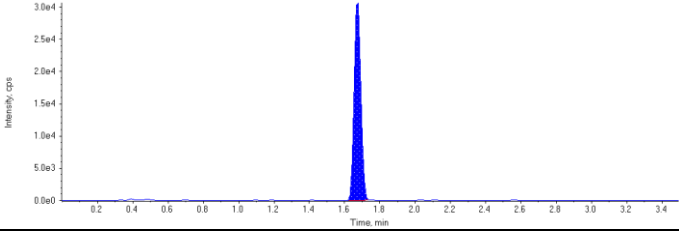
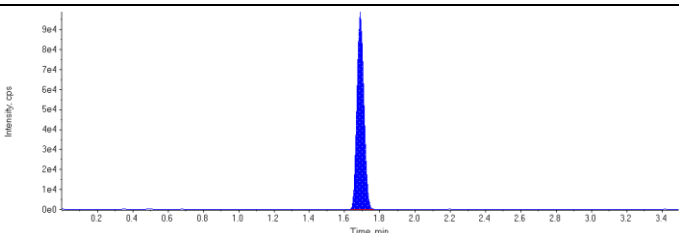
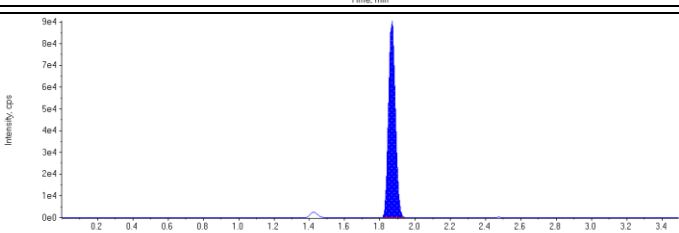
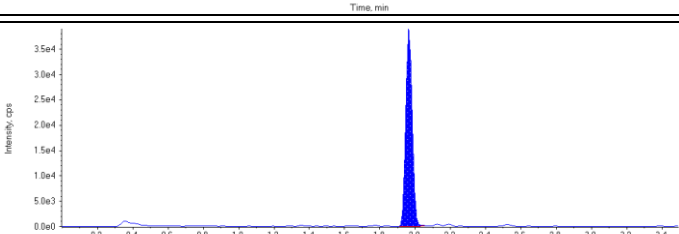
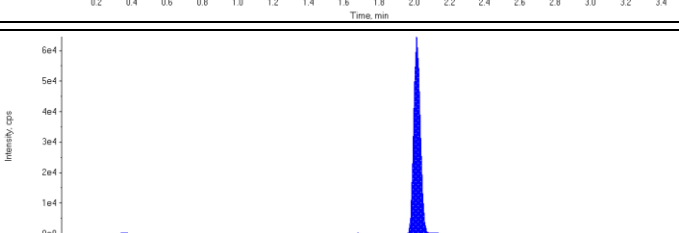
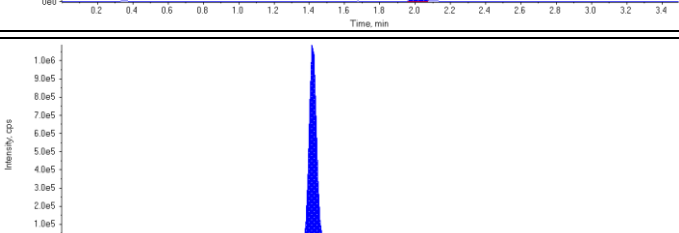
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.09) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 0.217 ng/L</p> <p>Area Ratio: 0.0170</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0213</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 0.410 ng/L</p> <p>Area Ratio: 0.0127</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0171</p> <p>Sample Type: (Unknown)</p>	

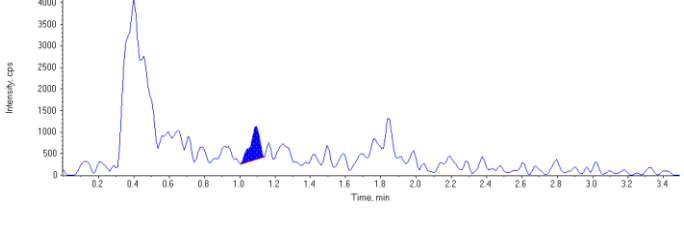
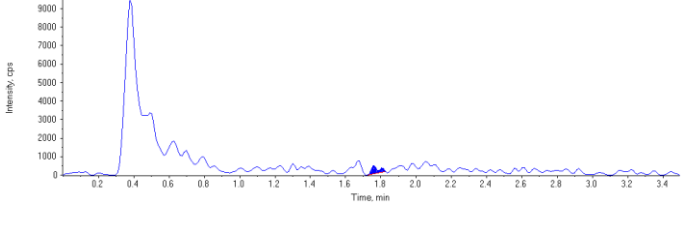
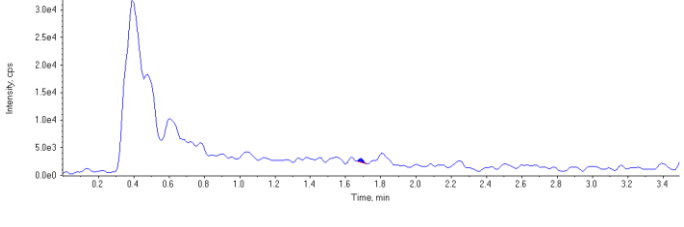
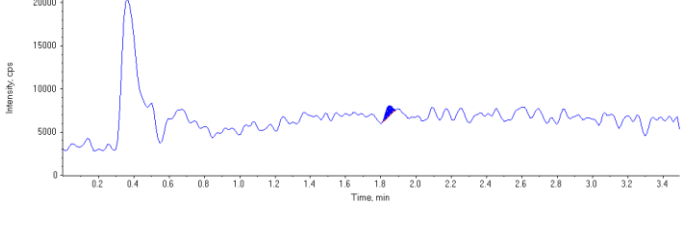
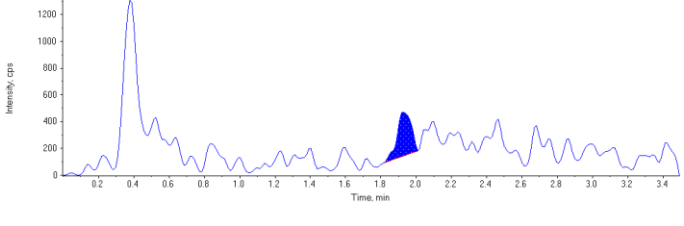
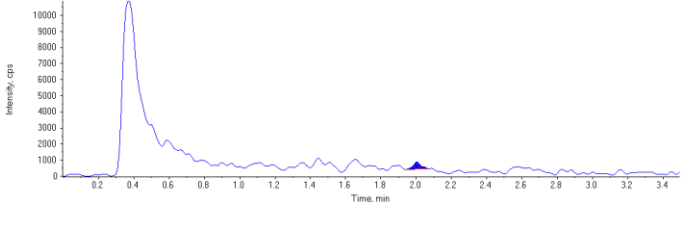
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 52.7 ng/L</p> <p>Area Ratio: 0.0422</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 47.9 ng/L</p> <p>Area Ratio: 0.111</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 54.3 ng/L</p> <p>Area Ratio: 0.113</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 52.6 ng/L</p> <p>Area Ratio: 0.0542</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 50.3 ng/L</p> <p>Area Ratio: 0.0883</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 86.8 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

Sample Name	4390179~BVX768-01	Injection Vial	24
Sample ID	4390179~BVX768-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:58:27 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	82200.	1.67	1.00	-
MPFHpA	266000.	1.69	1.00	-
MPFOA	241000.	1.87	1.00	-
MPFOS	98600.	1.96	1.00	-
MPFNA	167000.	2.01	1.00	-
13C6-PFHxA IS	3160000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	2890	1.09	N/A	0.759	N/A
PFHxS 1	1260	1.76	N/A	0.322	N/A
PFHpA 1	1200	1.69	N/A	0.116	N/A
PFOA 1	3300	1.85	N/A	N/A	N/A
PFOS 1	1840	1.93	N/A	0.445	N/A
PFNA 1	1370	2.00	N/A	N/A	N/A
18O2-PFHxS	82200	1.67	N/A	32.5	N/A
13C4-PFHpA	266000	1.69	N/A	36.5	N/A
13C4-PFOA	241000	1.87	N/A	36.8	N/A
13C4-PFOS	98600	1.96	N/A	30.3	N/A
13C5-PFNA	167000	2.01	N/A	30.2	N/A
13C6-PFHxA	3160000	1.42	N/A	160.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

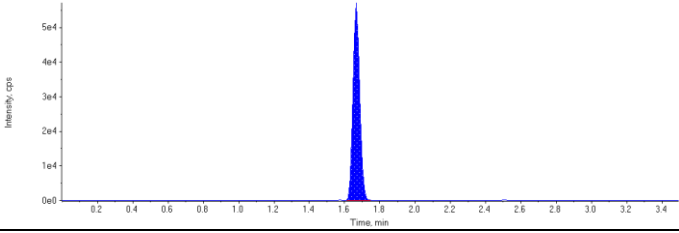
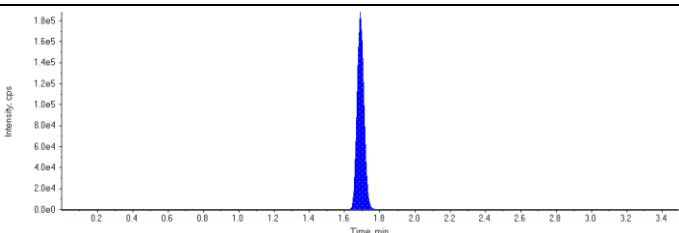
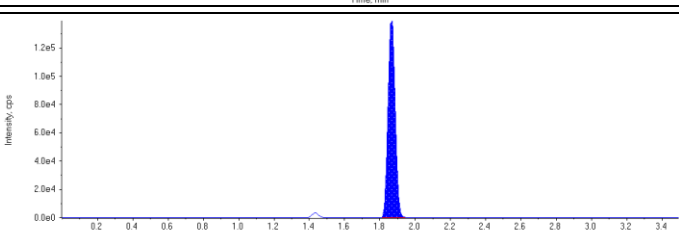
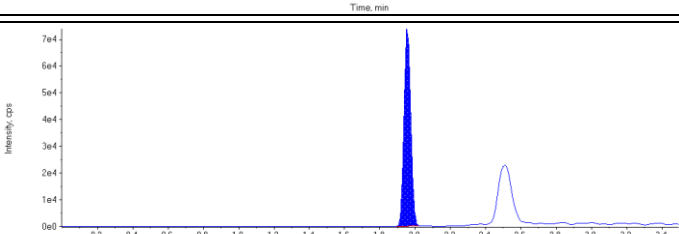
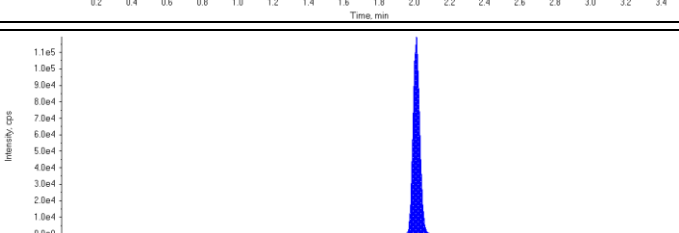
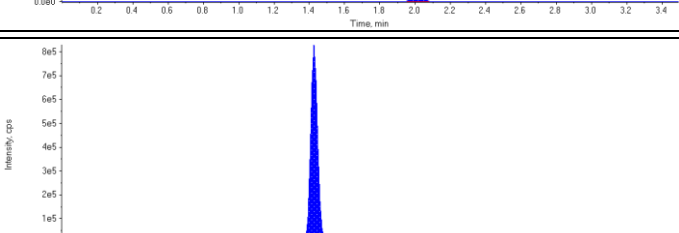
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 0.759 ng/L</p> <p>Area Ratio: 0.0352</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.76 (1.68) min</p> <p>Calculated Conc: 0.322 ng/L</p> <p>Area Ratio: 0.0154</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 0.116 ng/L</p> <p>Area Ratio: 0.00451</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.85 (1.88) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0137</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.93 (1.97) min</p> <p>Calculated Conc: 0.445 ng/L</p> <p>Area Ratio: 0.0187</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00818</p> <p>Sample Type: (Unknown)</p>	

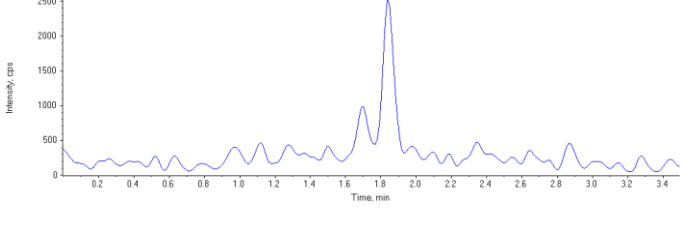
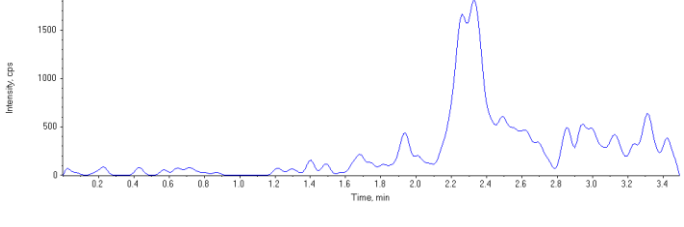
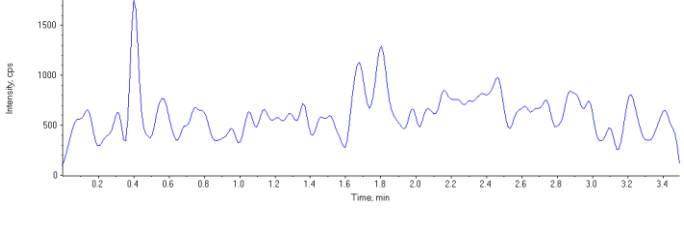
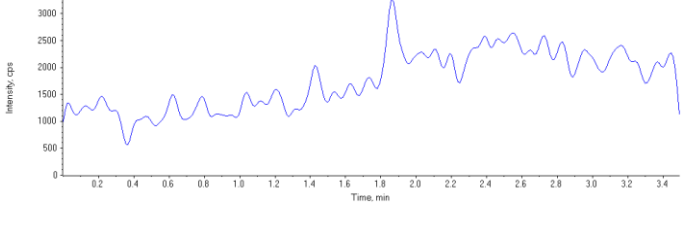
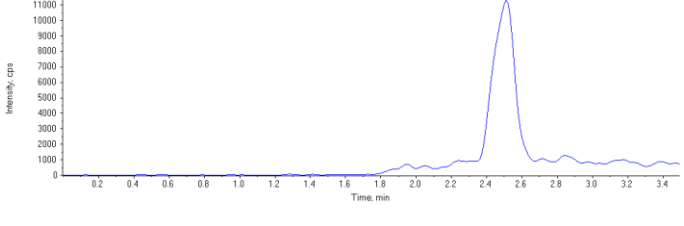
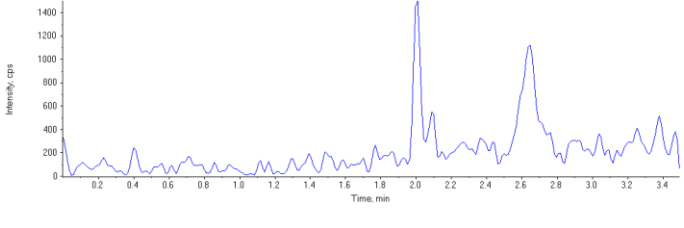
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 32.5 ng/L</p> <p>Area Ratio: 0.0260</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 36.5 ng/L</p> <p>Area Ratio: 0.0842</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 36.8 ng/L</p> <p>Area Ratio: 0.0764</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 30.3 ng/L</p> <p>Area Ratio: 0.0313</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 30.2 ng/L</p> <p>Area Ratio: 0.0530</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 160. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

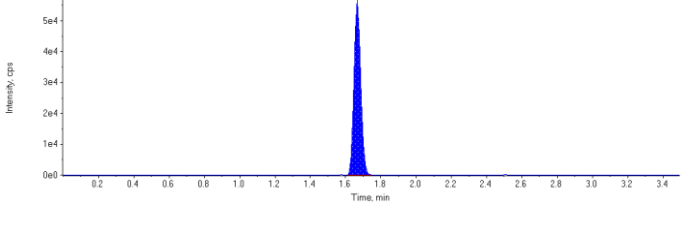
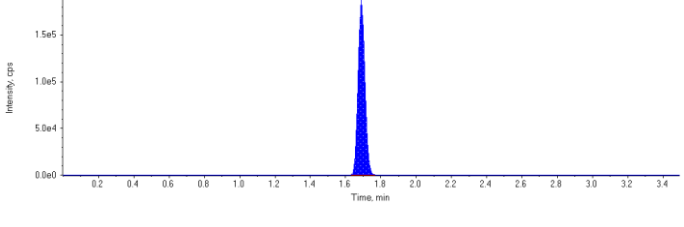
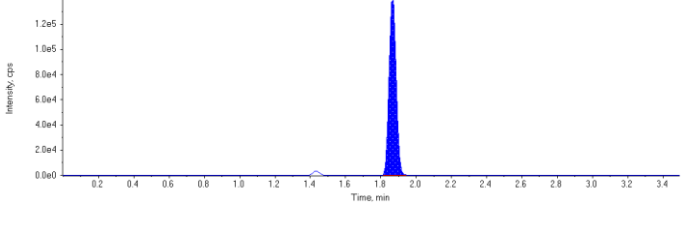
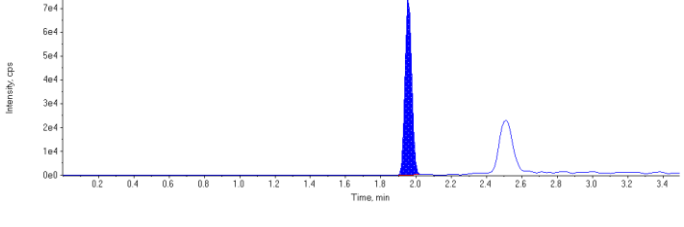
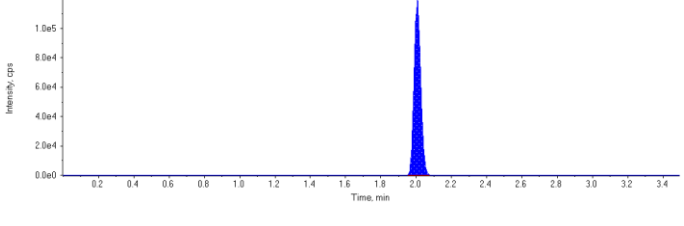
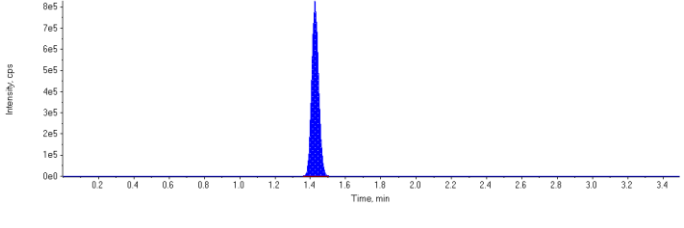
Sample Name	4394551~BVX757-01	Injection Vial	13
Sample ID	4394551~BVX757-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:02:04 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	150000.	1.67	1.00	-
MPFHpA	499000.	1.69	1.00	-
MPFOA	393000.	1.87	1.00	-
MPFOS	195000.	1.96	1.00	-
MPFNA	314000.	2.01	1.00	-
13C6-PFHxA IS	2250000.	1.43	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	0	0.00	N/A	N/A	N/A
PFOA 1	0	0.00	N/A	N/A	N/A
PFOS 1	0	0.00	N/A	N/A	N/A
PFNA 1	0	0.00	N/A	N/A	N/A
18O2-PFHxS	150000	1.67	N/A	103.	N/A
13C4-PFHpA	499000	1.69	N/A	116.	N/A
13C4-PFOA	393000	1.87	N/A	104.	N/A
13C4-PFOS	195000	1.96	N/A	110.	N/A
13C5-PFNA	314000	2.01	N/A	104.	N/A
13C6-PFHxA	2250000	1.43	N/A	90.8	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.43(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

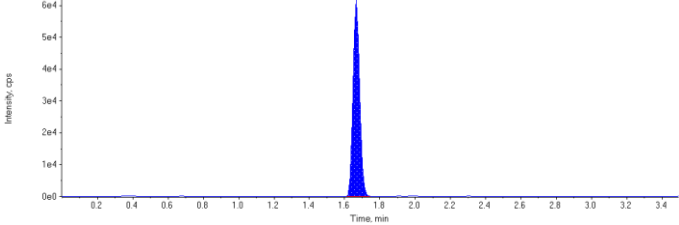
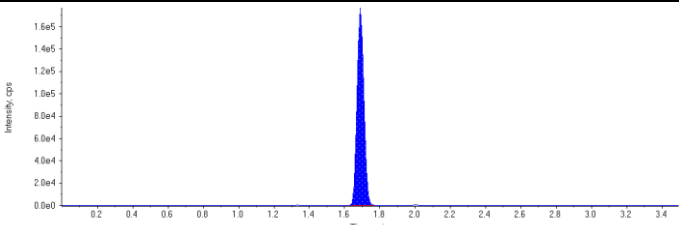
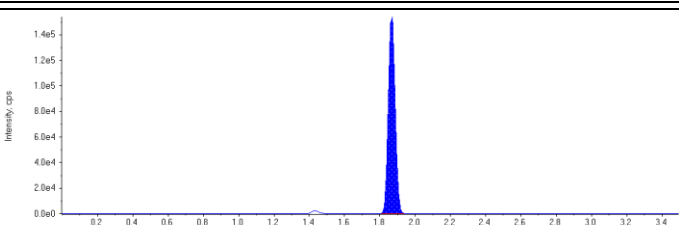
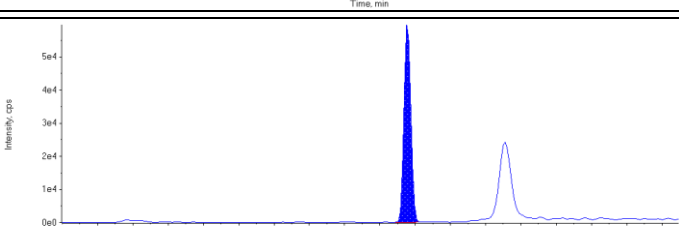
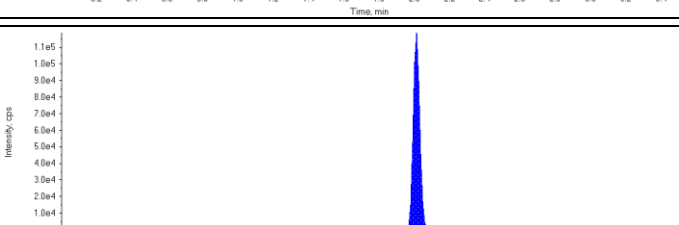
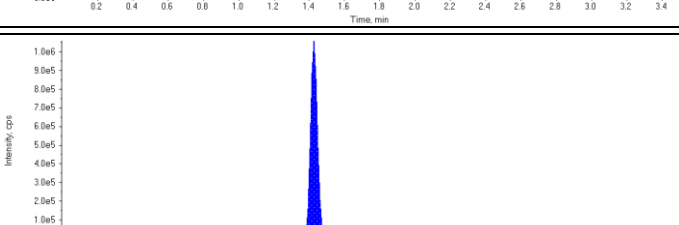
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.92) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.97) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 0.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

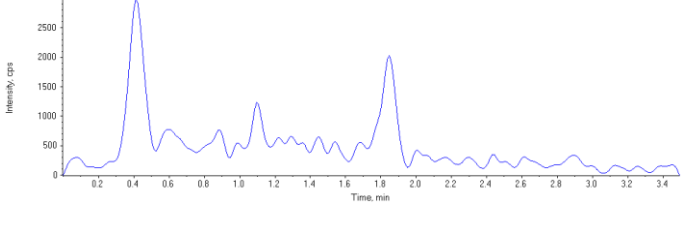
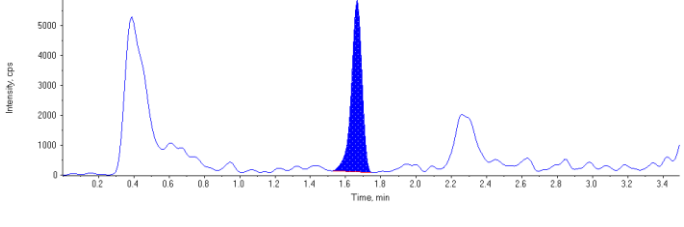
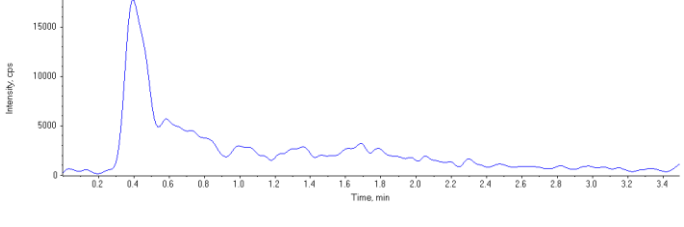
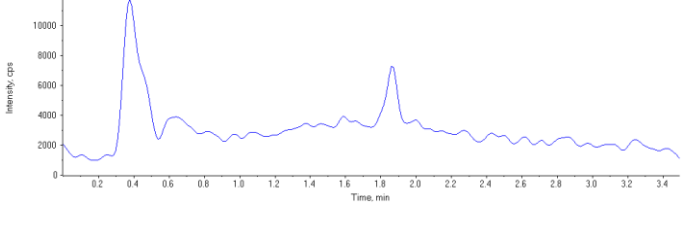
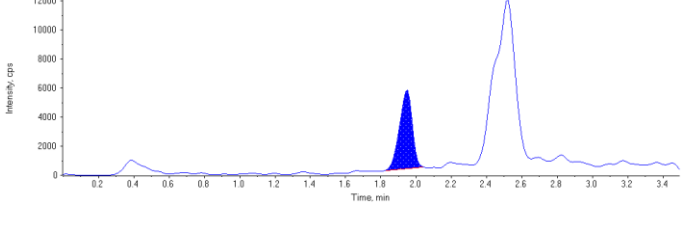
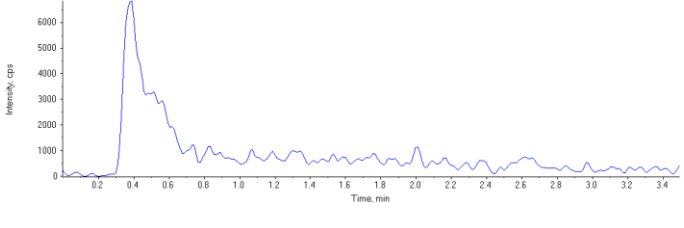
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.0665</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 116. ng/L</p> <p>Area Ratio: 0.222</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 104. ng/L</p> <p>Area Ratio: 0.175</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 110. ng/L</p> <p>Area Ratio: 0.0867</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 104. ng/L</p> <p>Area Ratio: 0.139</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.43 (1.42) min</p> <p>Calculated Conc: 90.8 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

Sample Name	4394551~BVX758-01	Injection Vial	14
Sample ID	4394551~BVX758-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:07:10 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	159000.	1.67	1.00	-
MPFHpA	468000.	1.69	1.00	-
MPFOA	416000.	1.87	1.00	-
MPFOS	162000.	1.96	1.00	-
MPFNA	305000.	2.01	1.00	-
13C6-PFHxA IS	2900000.	1.43	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	23600	1.67	N/A	0.745	N/A
PFHpA 1	0	0.00	N/A	N/A	N/A
PFOA 1	0	0.00	N/A	N/A	N/A
PFOS 1	27000	1.95	N/A	1.47	N/A
PFNA 1	0	0.00	N/A	N/A	N/A
18O2-PFHxS	159000	1.67	N/A	84.9	N/A
13C4-PFHpA	468000	1.69	N/A	84.0	N/A
13C4-PFOA	416000	1.87	N/A	85.7	N/A
13C4-PFOS	162000	1.96	N/A	70.7	N/A
13C5-PFNA	305000	2.01	N/A	78.5	N/A
13C6-PFHxA	2900000	1.43	N/A	117.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.43(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

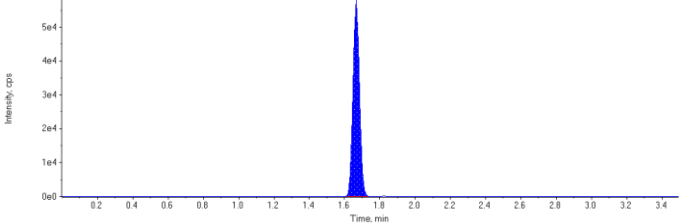
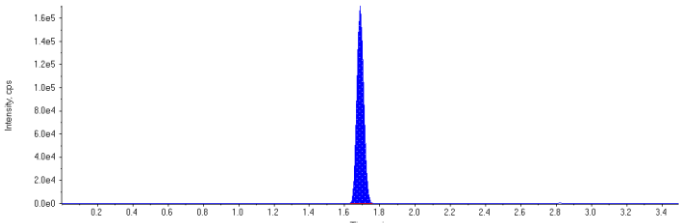
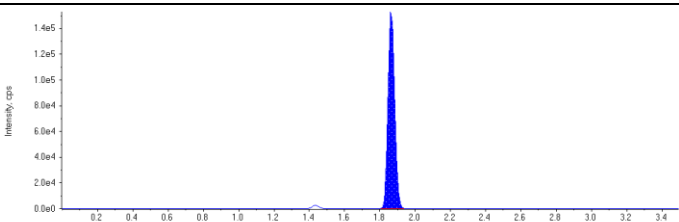
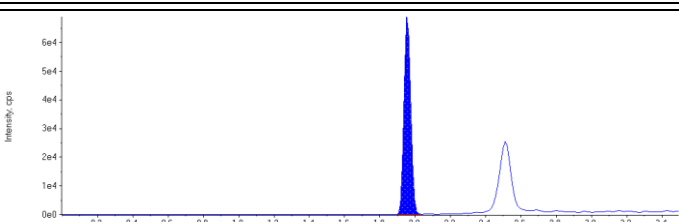
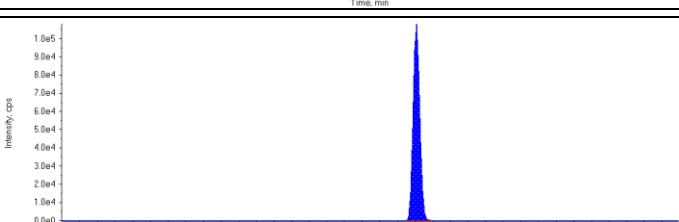
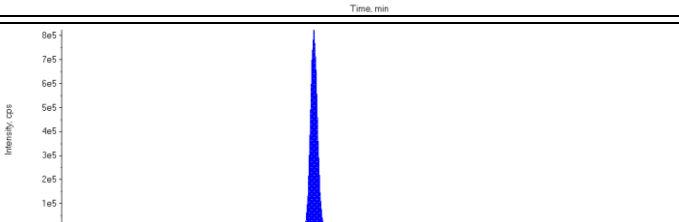
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 0.745 ng/L</p> <p>Area Ratio: 0.148</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.92) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 1.47 ng/L</p> <p>Area Ratio: 0.167</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 0.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

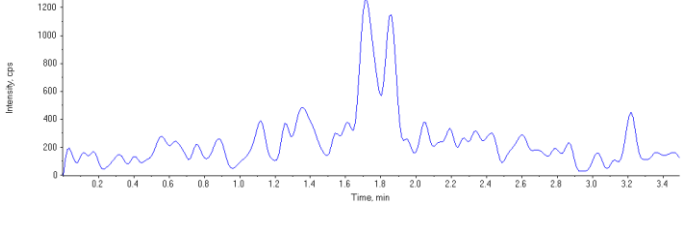
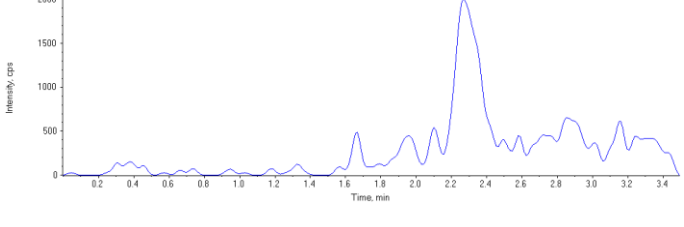
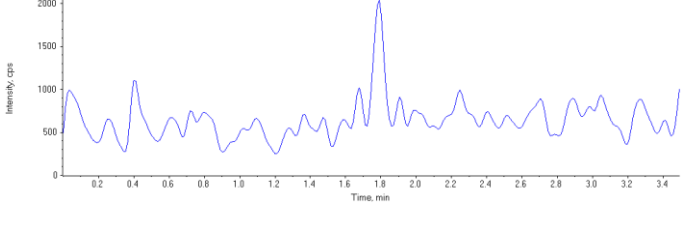
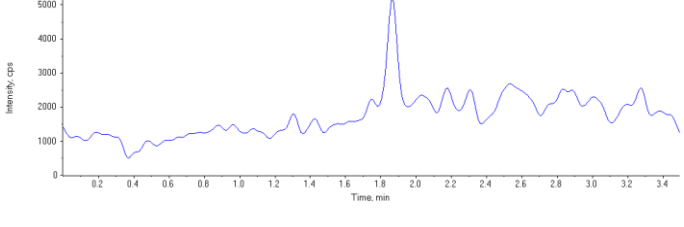
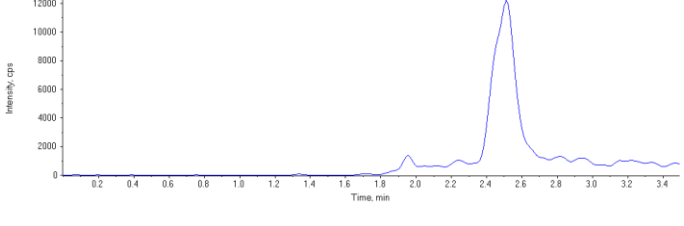
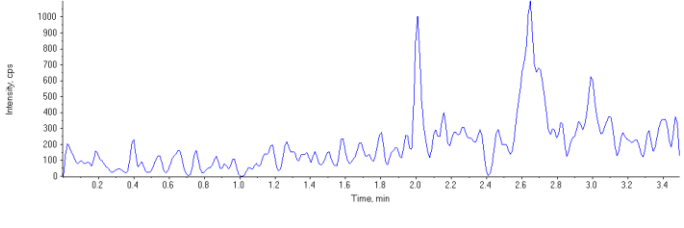
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 84.9 ng/L</p> <p>Area Ratio: 0.0548</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 84.0 ng/L</p> <p>Area Ratio: 0.161</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 85.7 ng/L</p> <p>Area Ratio: 0.143</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 70.7 ng/L</p> <p>Area Ratio: 0.0557</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 78.5 ng/L</p> <p>Area Ratio: 0.105</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.43 (1.42) min</p> <p>Calculated Conc: 117. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

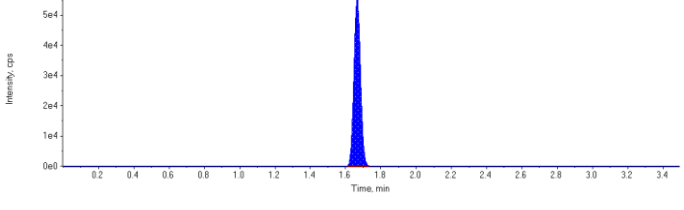
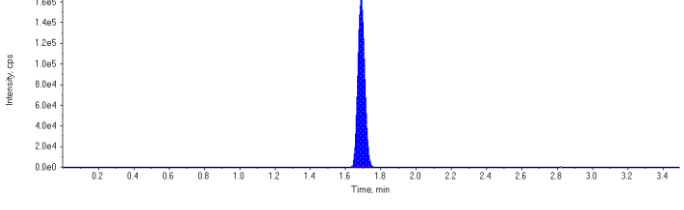
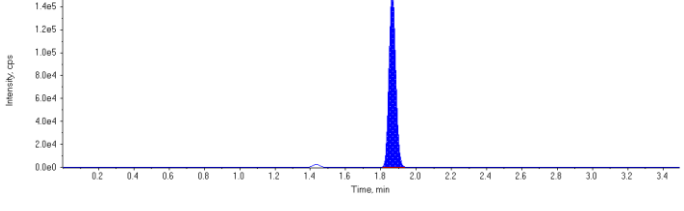
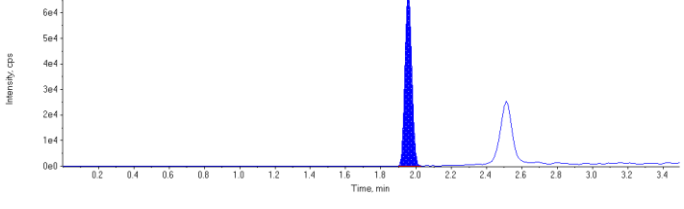
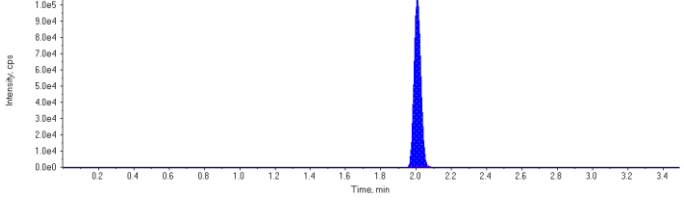
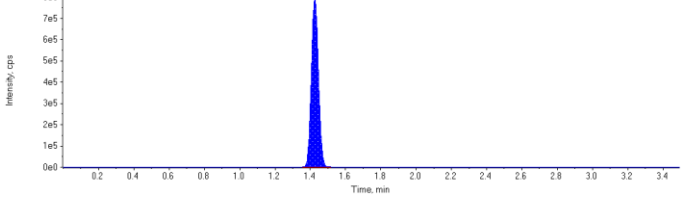
Sample Name	4394551~BVX759-01	Injection Vial	15
Sample ID	4394551~BVX759-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:12:16 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	146000.	1.67	1.00	-
MPFHpA	456000.	1.69	1.00	-
MPFOA	403000.	1.86	1.00	-
MPFOS	182000.	1.95	1.00	-
MPFNA	284000.	2.01	1.00	-
13C6-PFHxA IS	2250000.	1.43	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	0	0.00	N/A	N/A	N/A
PFOA 1	0	0.00	N/A	N/A	N/A
PFOS 1	0	0.00	N/A	N/A	N/A
PFNA 1	0	0.00	N/A	N/A	N/A
18O2-PFHxS	146000	1.67	N/A	101.	N/A
13C4-PFHpA	456000	1.69	N/A	105.	N/A
13C4-PFOA	403000	1.86	N/A	107.	N/A
13C4-PFOS	182000	1.95	N/A	103.	N/A
13C5-PFNA	284000	2.01	N/A	94.4	N/A
13C6-PFHxA	2250000	1.43	N/A	90.8	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.43(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

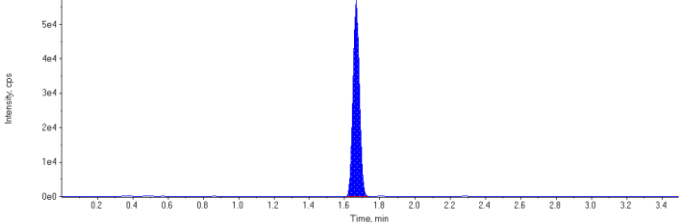
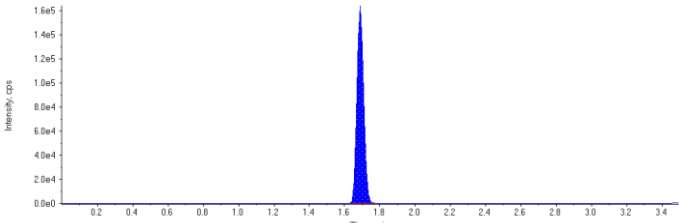
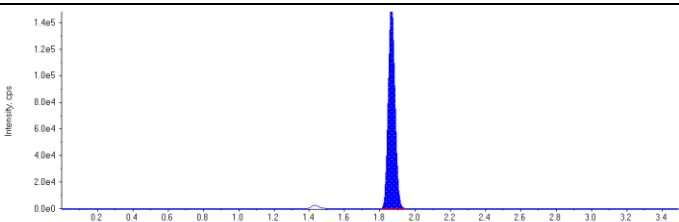
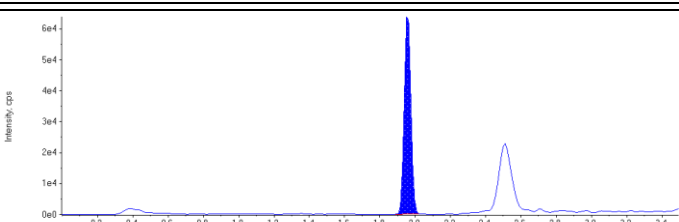
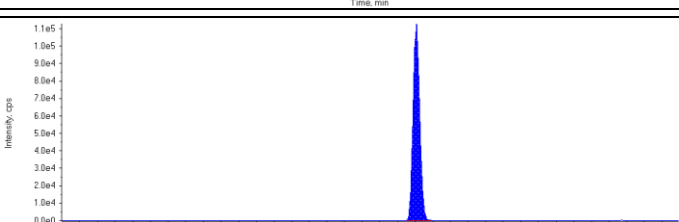
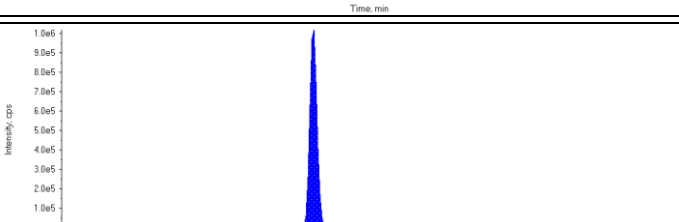
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.92) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.97) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 0.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

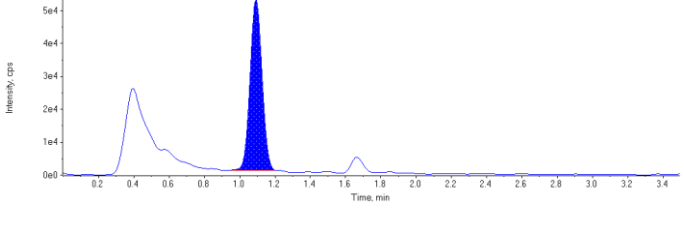
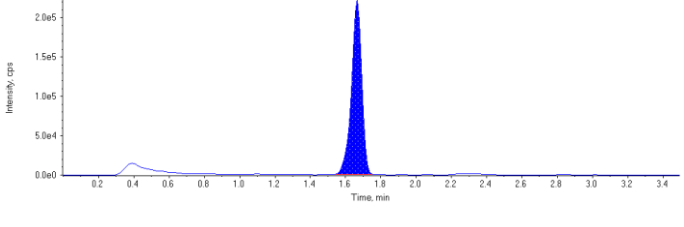
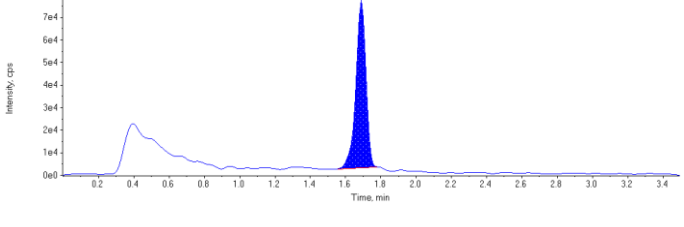
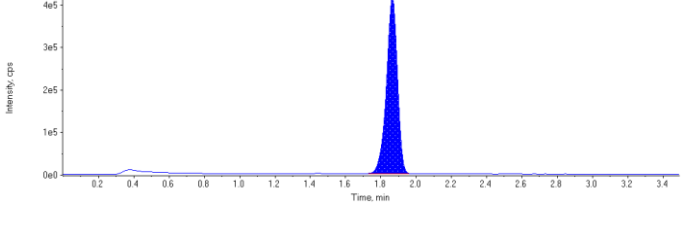
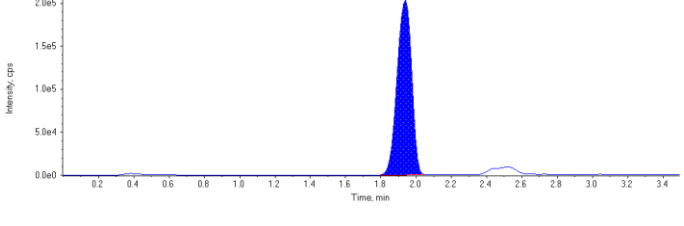
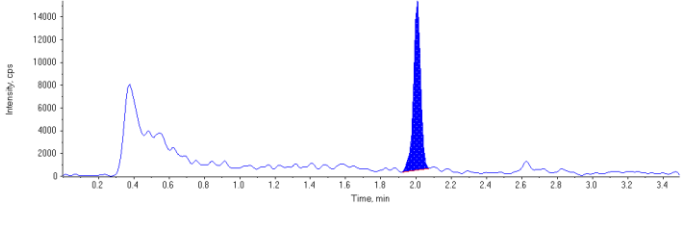
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.0651</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.203</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 107. ng/L</p> <p>Area Ratio: 0.179</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.0810</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 94.4 ng/L</p> <p>Area Ratio: 0.126</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.43 (1.42) min</p> <p>Calculated Conc: 90.8 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

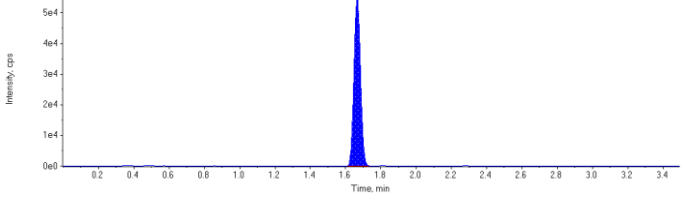
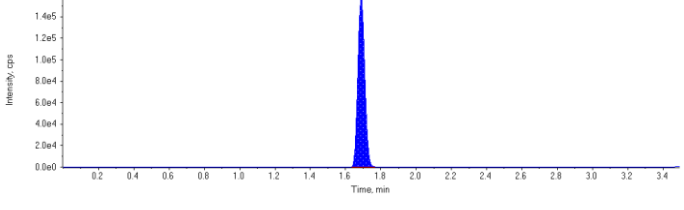
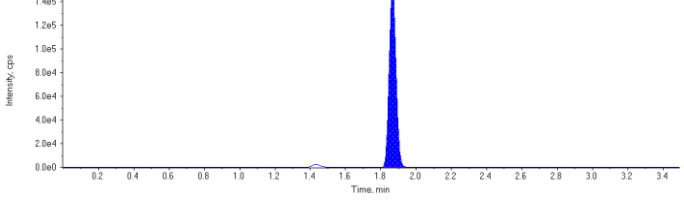
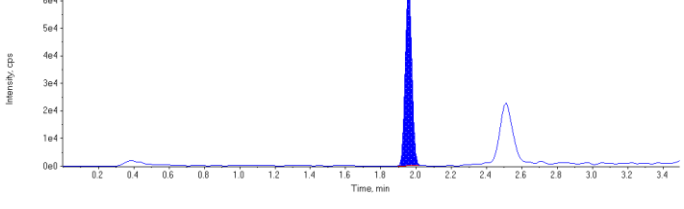
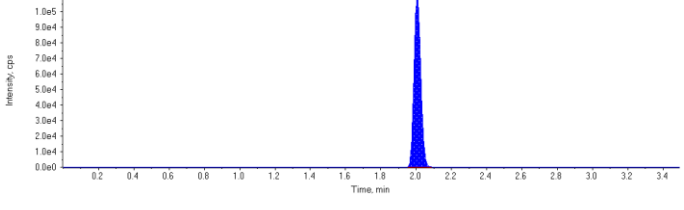
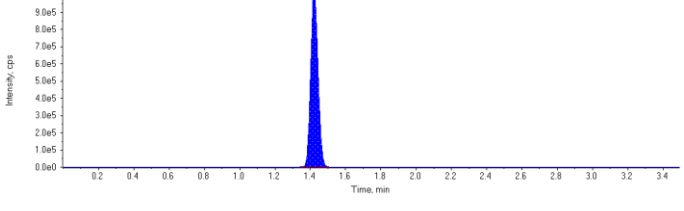
Sample Name	4394551~BVX760-01	Injection Vial	16
Sample ID	4394551~BVX760-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:17:22 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	142000.	1.67	1.00	-
MPFHpA	433000.	1.69	1.00	-
MPFOA	403000.	1.87	1.00	-
MPFOS	169000.	1.96	1.00	-
MPFNA	296000.	2.01	1.00	-
13C6-PFHxA IS	2960000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	244000	1.09	N/A	6.52	N/A
PFHxS 1	898000	1.67	N/A	21.9	N/A
PFHpA 1	294000	1.69	N/A	5.80	N/A
PFOA 1	1790000	1.87	N/A	30.4	N/A
PFOS 1	1160000	1.94	N/A	44.4	N/A
PFNA 1	41200	2.01	N/A	1.06	N/A
18O2-PFHxS	142000	1.67	N/A	74.3	N/A
13C4-PFHpA	433000	1.69	N/A	76.0	N/A
13C4-PFOA	403000	1.87	N/A	81.3	N/A
13C4-PFOS	169000	1.96	N/A	72.3	N/A
13C5-PFNA	296000	2.01	N/A	74.5	N/A
13C6-PFHxA	2960000	1.42	N/A	120.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

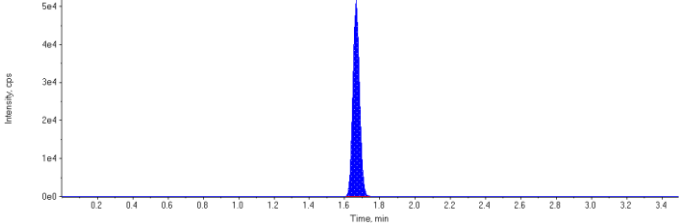
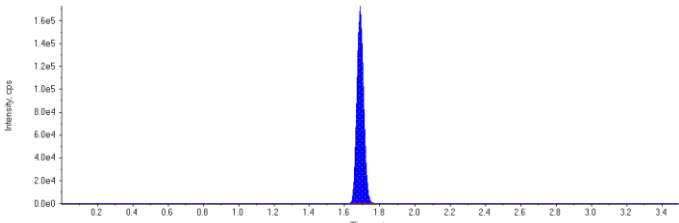
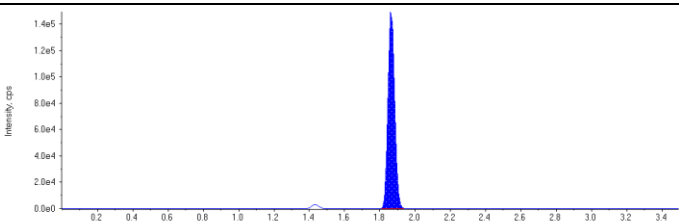
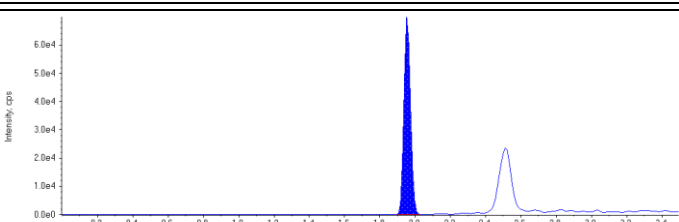
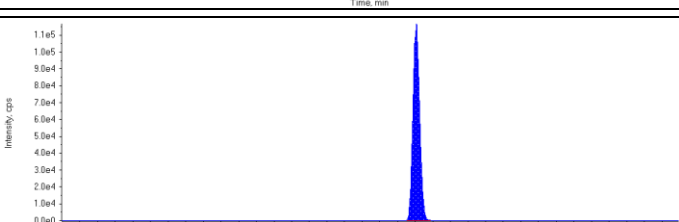
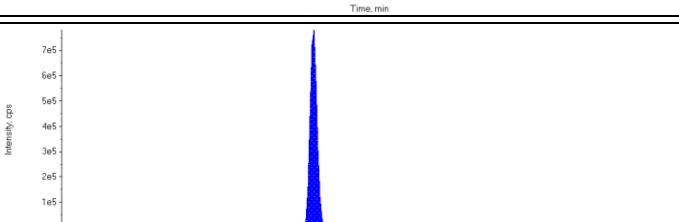
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 6.52 ng/L</p> <p>Area Ratio: 1.71</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 21.9 ng/L</p> <p>Area Ratio: 6.31</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 5.80 ng/L</p> <p>Area Ratio: 0.679</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 30.4 ng/L</p> <p>Area Ratio: 4.43</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.94 (1.97) min</p> <p>Calculated Conc: 44.4 ng/L</p> <p>Area Ratio: 6.87</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 1.06 ng/L</p> <p>Area Ratio: 0.139</p> <p>Sample Type: (Unknown)</p>	

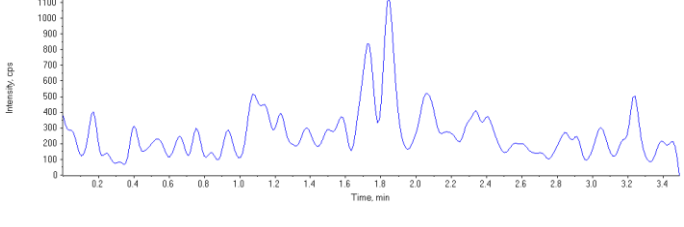
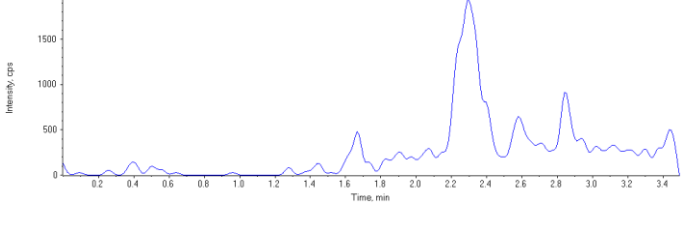
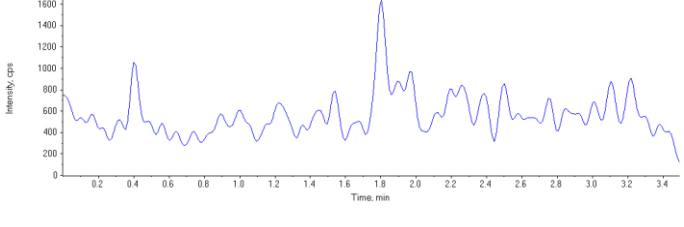
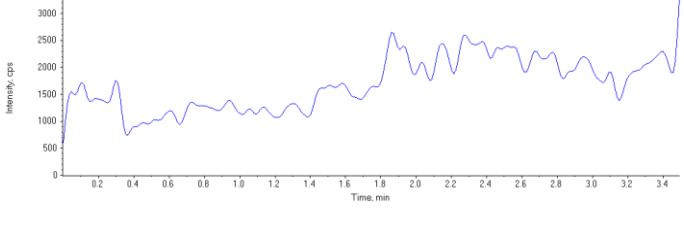
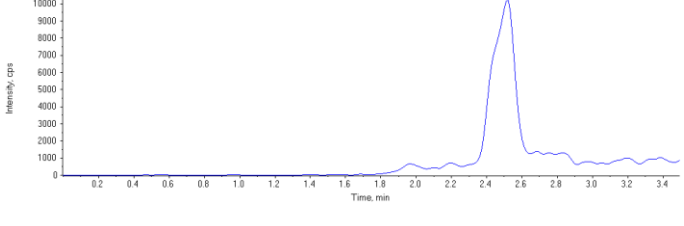
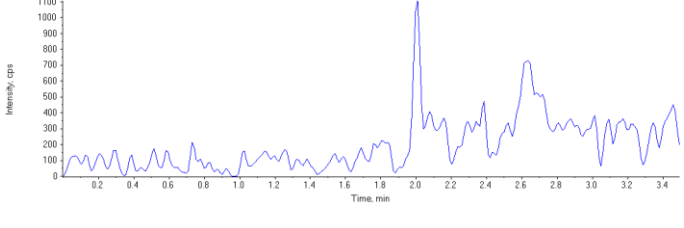
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 74.3 ng/L</p> <p>Area Ratio: 0.0480</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 76.0 ng/L</p> <p>Area Ratio: 0.146</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 81.3 ng/L</p> <p>Area Ratio: 0.136</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 72.3 ng/L</p> <p>Area Ratio: 0.0570</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 74.5 ng/L</p> <p>Area Ratio: 0.0997</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 120. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

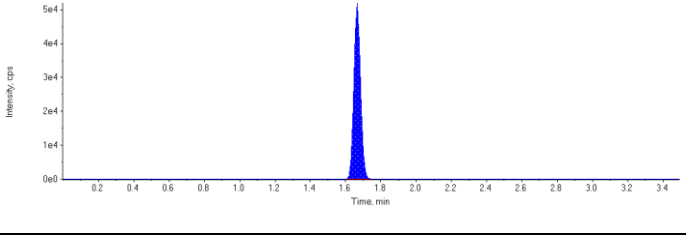
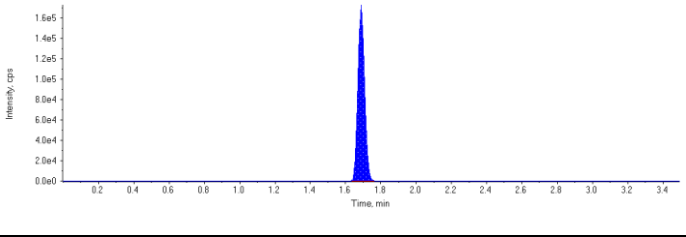
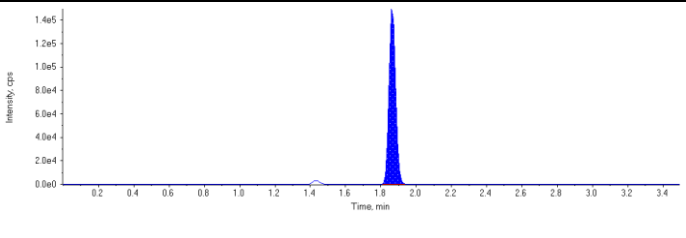
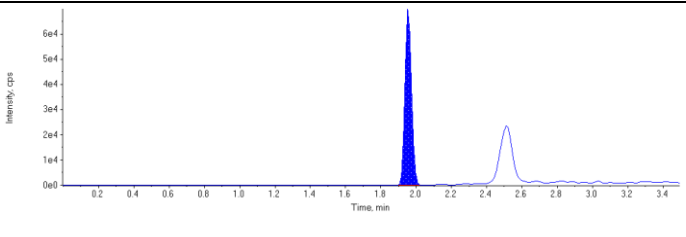
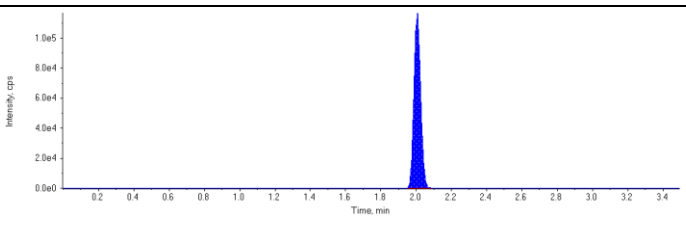
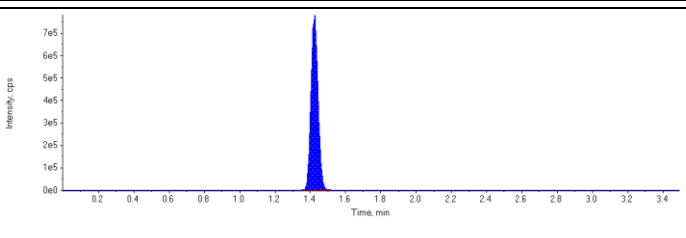
Sample Name	4394551~BVX761-01	Injection Vial	17
Sample ID	4394551~BVX761-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:22:29 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	134000.	1.67	1.00	-
MPFHpA	452000.	1.69	1.00	-
MPFOA	391000.	1.86	1.00	-
MPFOS	180000.	1.95	1.00	-
MPFNA	310000.	2.01	1.00	-
13C6-PFHxA IS	2180000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	0	0.00	N/A	N/A	N/A
PFOA 1	0	0.00	N/A	N/A	N/A
PFOS 1	0	0.00	N/A	N/A	N/A
PFNA 1	0	0.00	N/A	N/A	N/A
18O2-PFHxS	134000	1.67	N/A	95.3	N/A
13C4-PFHpA	452000	1.69	N/A	108.	N/A
13C4-PFOA	391000	1.86	N/A	107.	N/A
13C4-PFOS	180000	1.95	N/A	105.	N/A
13C5-PFNA	310000	2.01	N/A	106.	N/A
13C6-PFHxA	2180000	1.42	N/A	88.1	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

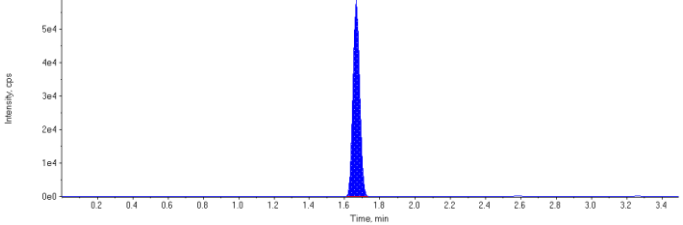
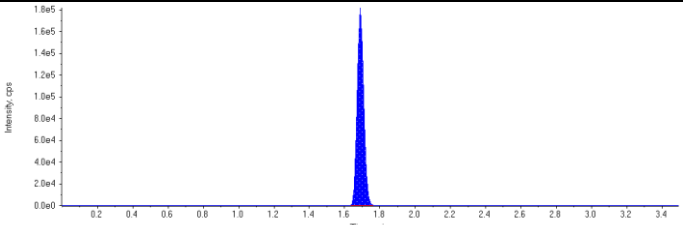
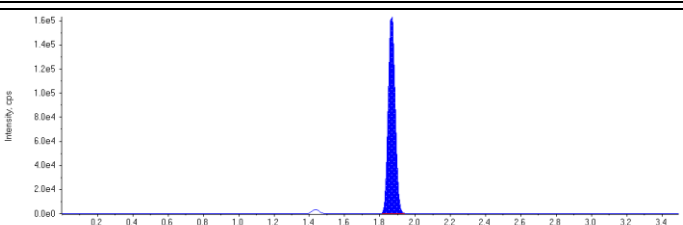
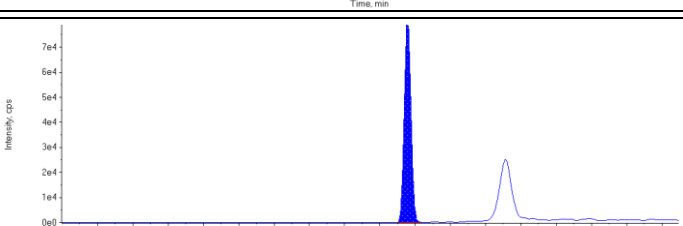
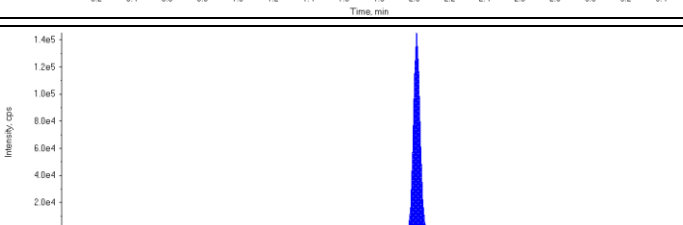
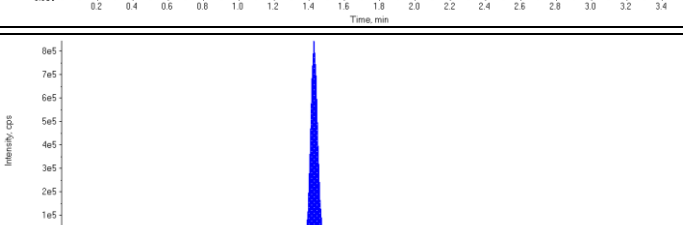
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.92) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.97) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 0.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

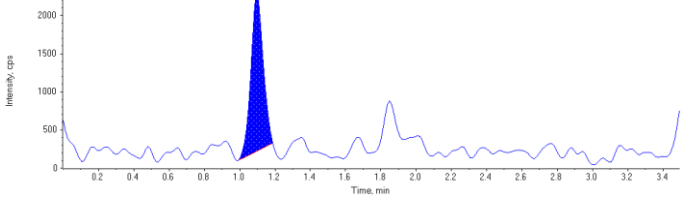
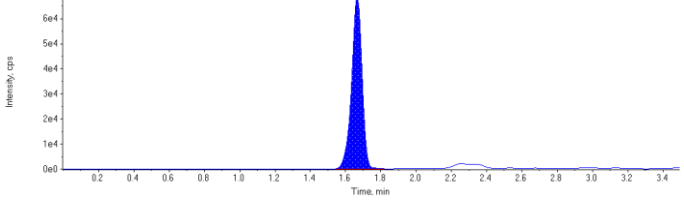
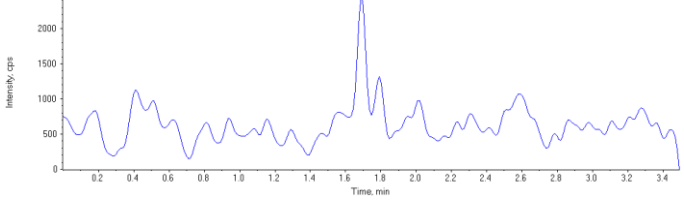
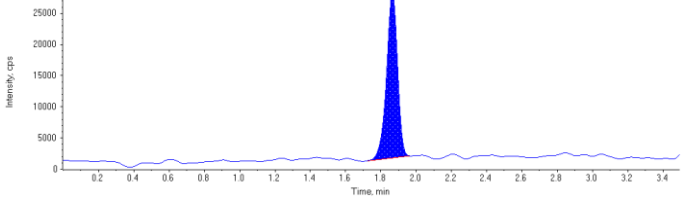
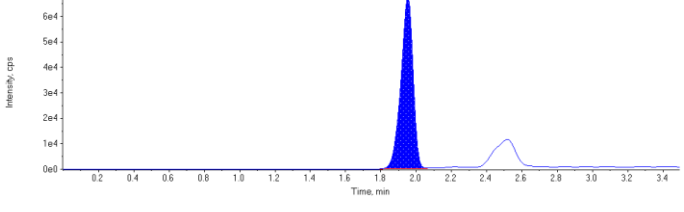
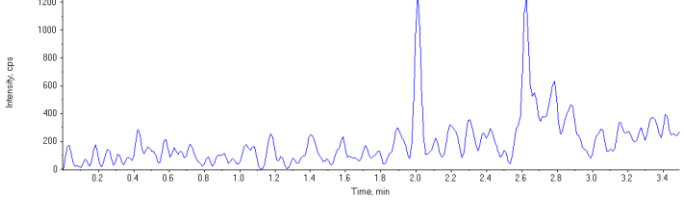
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 95.3 ng/L</p> <p>Area Ratio: 0.0615</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 108. ng/L</p> <p>Area Ratio: 0.207</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 107. ng/L</p> <p>Area Ratio: 0.179</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.0827</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 106. ng/L</p> <p>Area Ratio: 0.142</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 88.1 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

Sample Name	4394551~BVX762-01(50X)	Injection Vial	18
Sample ID	4394551~BVX762-01(50X)	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:27:35 PM	Dilution Factor	50.0
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	154000.	1.67	1.00	-
MPFHpA	461000.	1.69	1.00	-
MPFOA	446000.	1.87	1.00	-
MPFOS	213000.	1.96	1.00	-
MPFNA	370000.	2.01	1.00	-
13C6-PFHxA IS	2290000.	1.43	0.0200	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	9950	1.10	N/A	33.7	N/A
PFHxS 1	283000	1.67	N/A	327.	N/A
PFHpA 1	0	0.00	N/A	N/A	N/A
PFOA 1	115000	1.87	N/A	91.3	N/A
PFOS 1	322000	1.95	N/A	503.	N/A
PFNA 1	0	0.00	N/A	N/A	N/A
18O2-PFHxS	154000	1.67	N/A	104.	N/A
13C4-PFHpA	461000	1.69	N/A	105.	N/A
13C4-PFOA	446000	1.87	N/A	117.	N/A
13C4-PFOS	213000	1.96	N/A	118.	N/A
13C5-PFNA	370000	2.01	N/A	121.	N/A
13C6-PFHxA	2290000	1.43	N/A	4610.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.43(1.42) min Concentration: 0.0200 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

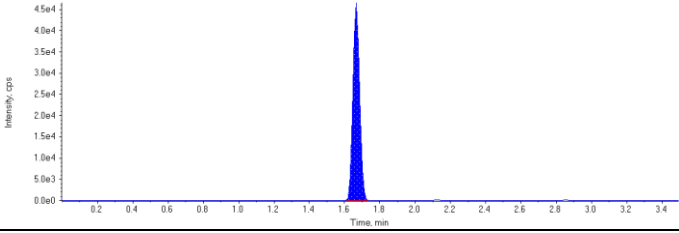
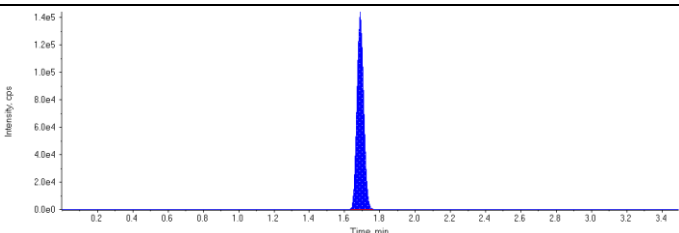
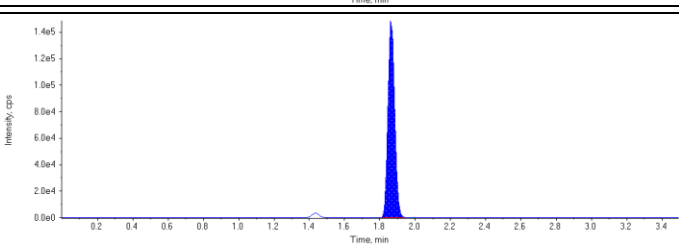
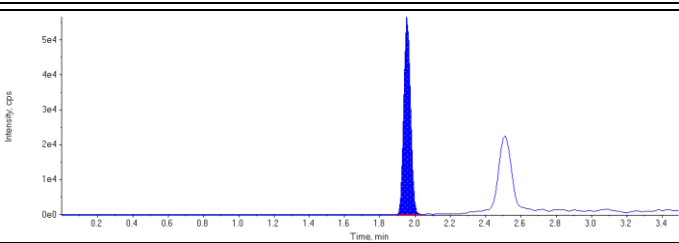
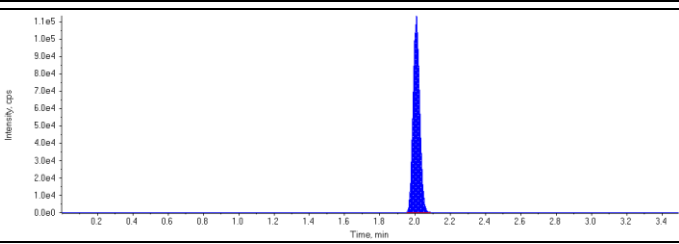
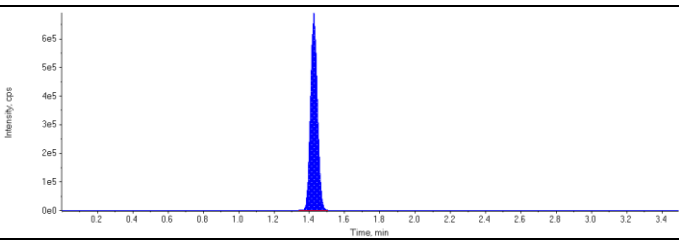
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.10 (1.15) min</p> <p>Calculated Conc: 33.7 ng/L</p> <p>Area Ratio: 0.0648</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 327. ng/L</p> <p>Area Ratio: 1.84</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 91.3 ng/L</p> <p>Area Ratio: 0.258</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 503. ng/L</p> <p>Area Ratio: 1.51</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 0.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

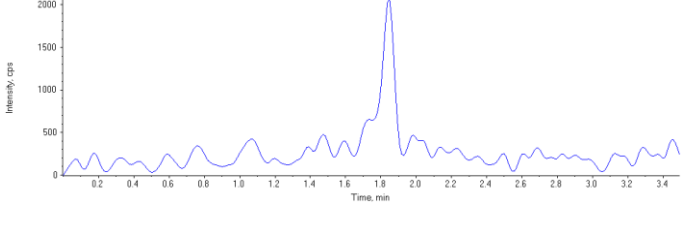
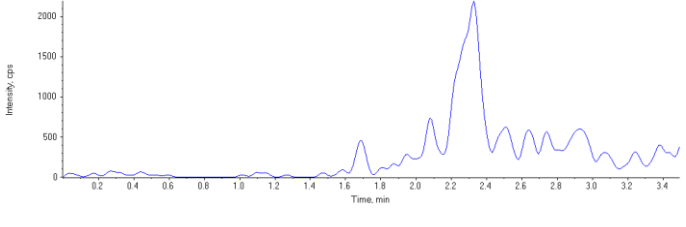
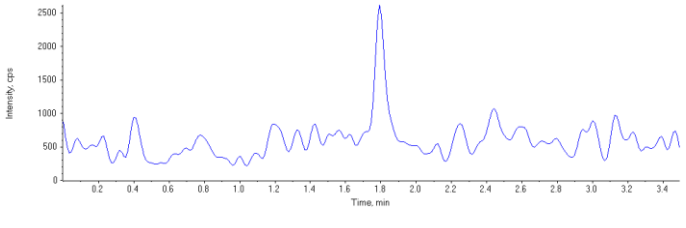
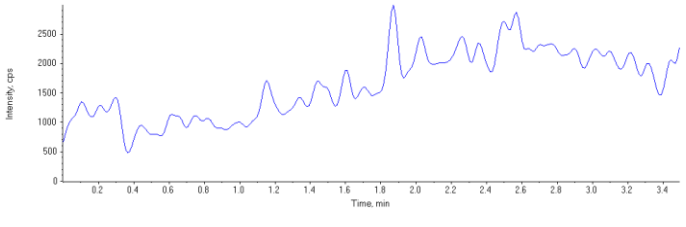
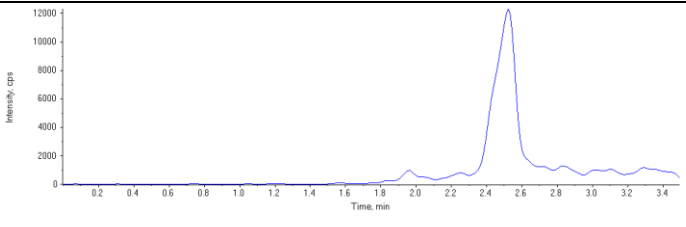
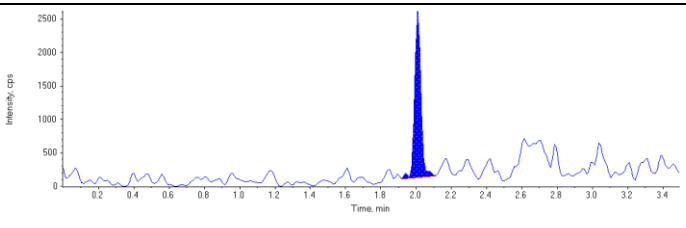
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 104. ng/L</p> <p>Area Ratio: 0.0672</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.202</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 117. ng/L</p> <p>Area Ratio: 0.195</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 118. ng/L</p> <p>Area Ratio: 0.0933</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 121. ng/L</p> <p>Area Ratio: 0.162</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.43 (1.42) min</p> <p>Calculated Conc: 4610. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

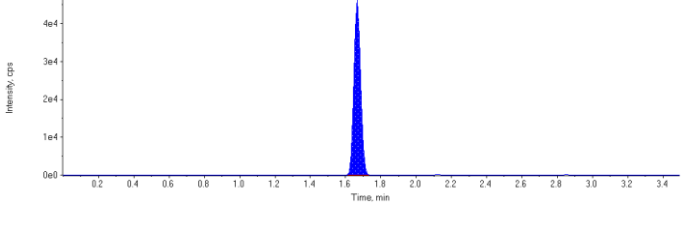
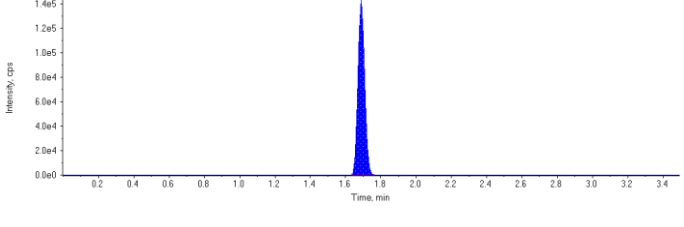
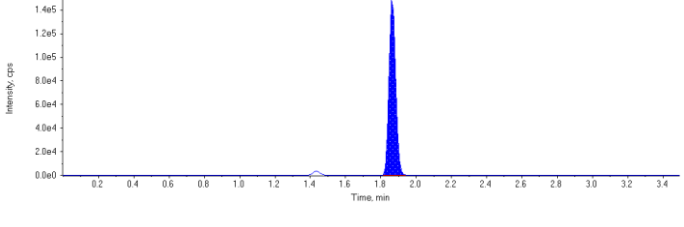
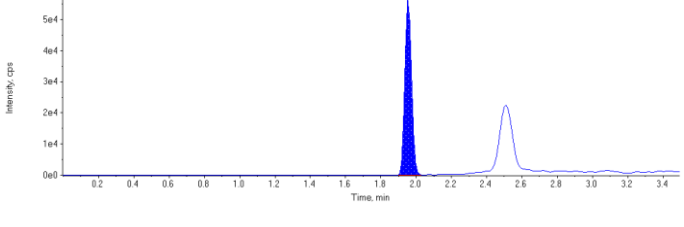
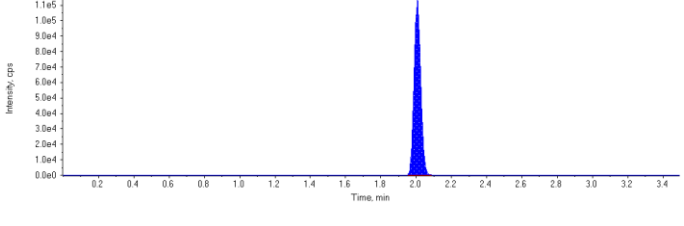
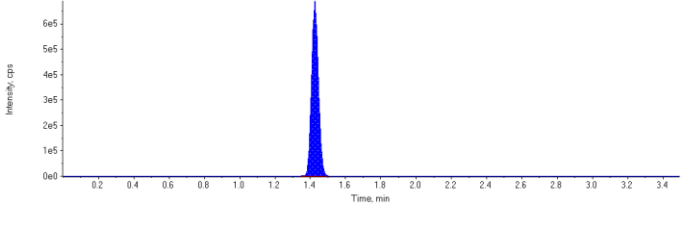
Sample Name	4394551~BVX763-01	Injection Vial	19
Sample ID	4394551~BVX763-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:32:41 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	121000.	1.67	1.00	-
MPFHpA	374000.	1.69	1.00	-
MPFOA	390000.	1.86	1.00	-
MPFOS	150000.	1.95	1.00	-
MPFNA	298000.	2.01	1.00	-
13C6-PFHxA IS	1870000.	1.43	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	0	0.00	N/A	N/A	N/A
PFOA 1	0	0.00	N/A	N/A	N/A
PFOS 1	0	0.00	N/A	N/A	N/A
PFNA 1	6120	2.01	N/A	0.157	N/A
18O2-PFHxS	121000	1.67	N/A	101.	N/A
13C4-PFHpA	374000	1.69	N/A	104.	N/A
13C4-PFOA	390000	1.86	N/A	125.	N/A
13C4-PFOS	150000	1.95	N/A	102.	N/A
13C5-PFNA	298000	2.01	N/A	119.	N/A
13C6-PFHxA	1870000	1.43	N/A	75.3	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.43(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

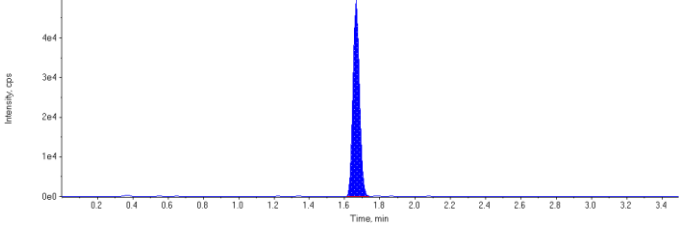
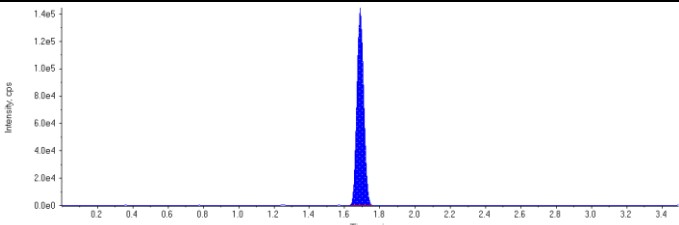
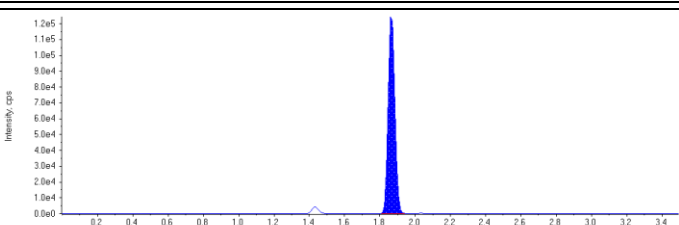
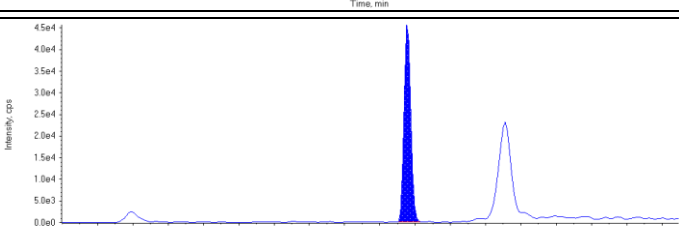
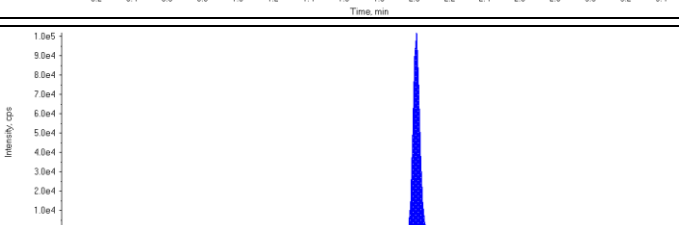
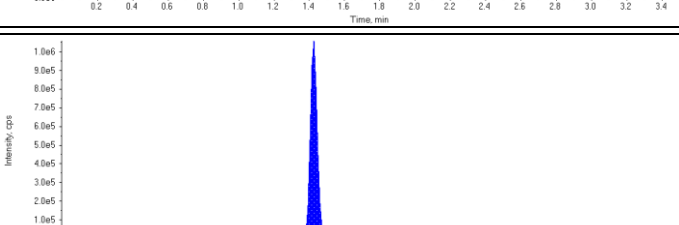
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.92) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.97) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 0.157 ng/L</p> <p>Area Ratio: 0.0205</p> <p>Sample Type: (Unknown)</p>	

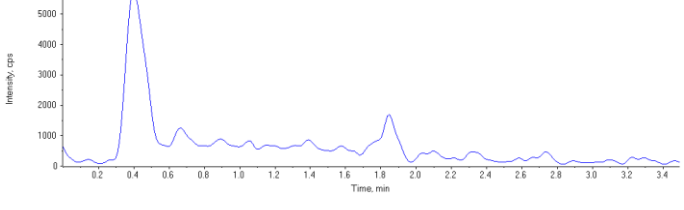
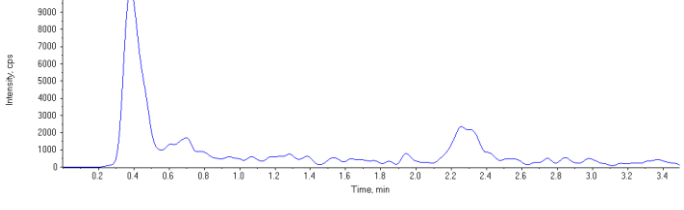
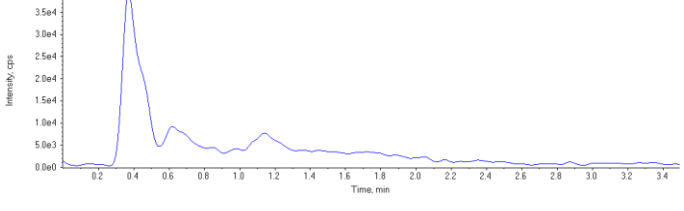
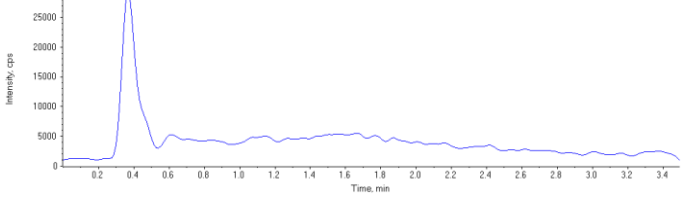
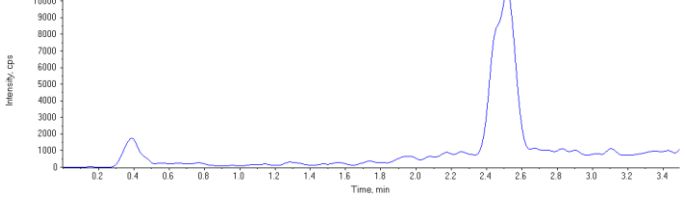
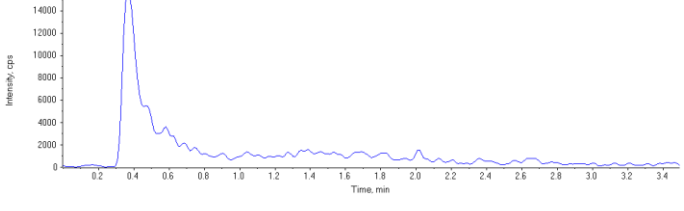
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.0650</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 104. ng/L</p> <p>Area Ratio: 0.200</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 125. ng/L</p> <p>Area Ratio: 0.209</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 102. ng/L</p> <p>Area Ratio: 0.0803</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 119. ng/L</p> <p>Area Ratio: 0.160</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.43 (1.42) min</p> <p>Calculated Conc: 75.3 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

Sample Name	4394551~BVX764-01	Injection Vial	20
Sample ID	4394551~BVX764-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:37:47 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	126000.	1.67	1.00	-
MPFHpA	379000.	1.69	1.00	-
MPFOA	331000.	1.87	1.00	-
MPFOS	121000.	1.96	1.00	-
MPFNA	265000.	2.01	1.00	-
13C6-PFHxA IS	2900000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	0	0.00	N/A	N/A	N/A
PFOA 1	0	0.00	N/A	N/A	N/A
PFOS 1	0	0.00	N/A	N/A	N/A
PFNA 1	0	0.00	N/A	N/A	N/A
18O2-PFHxS	126000	1.67	N/A	67.2	N/A
13C4-PFHpA	379000	1.69	N/A	68.0	N/A
13C4-PFOA	331000	1.87	N/A	68.1	N/A
13C4-PFOS	121000	1.96	N/A	52.8	N/A
13C5-PFNA	265000	2.01	N/A	68.3	N/A
13C6-PFHxA	2900000	1.42	N/A	117.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

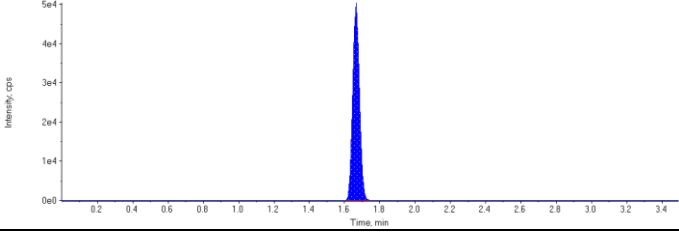
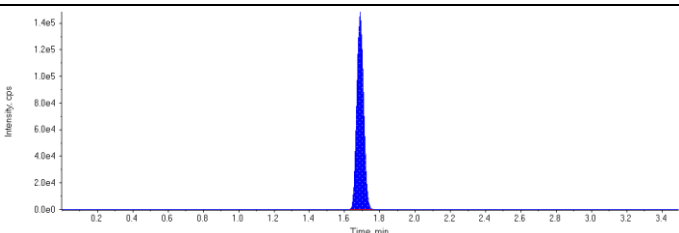
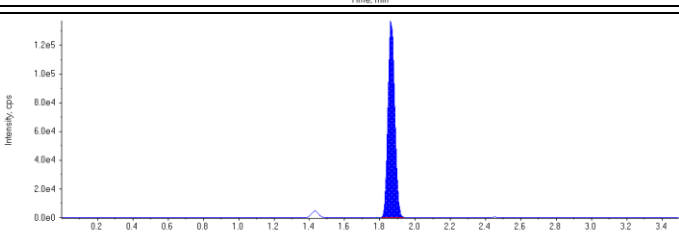
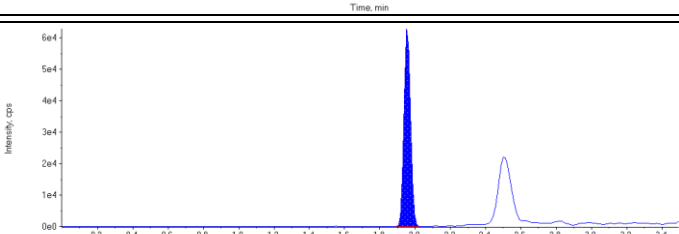
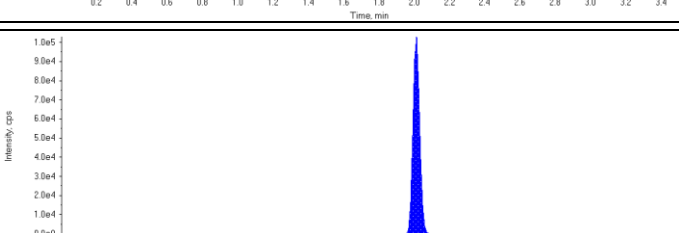
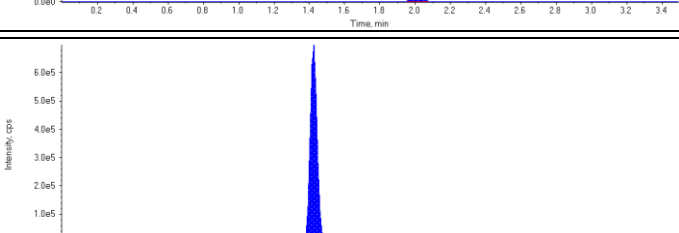
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.92) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.97) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 0.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

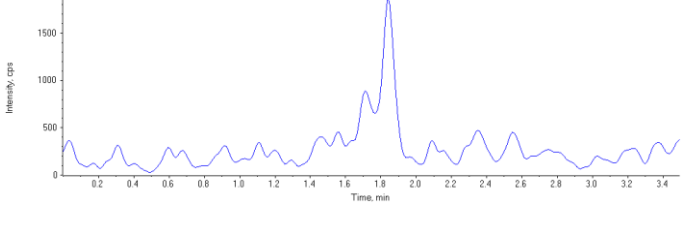
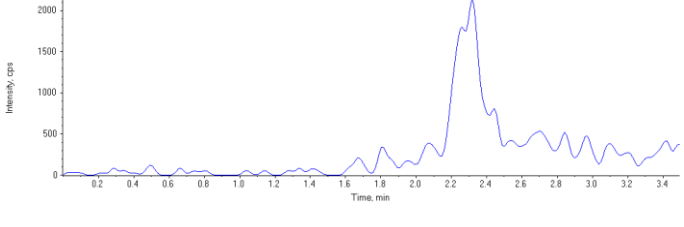
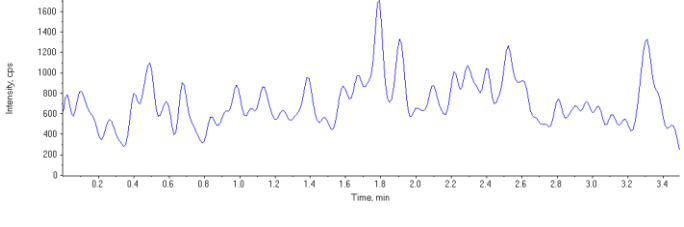
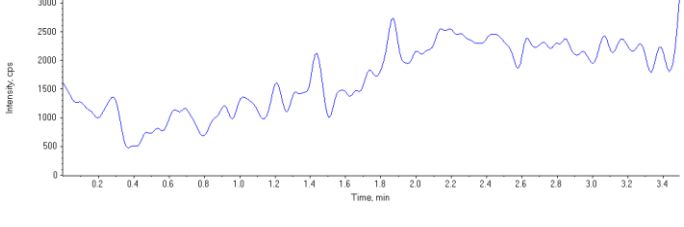
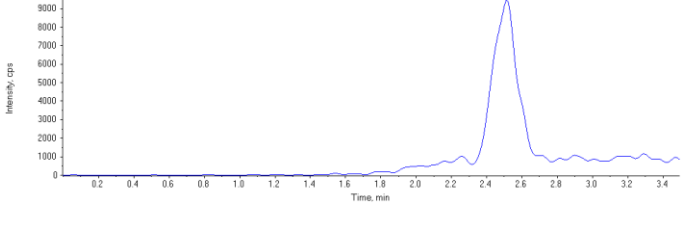
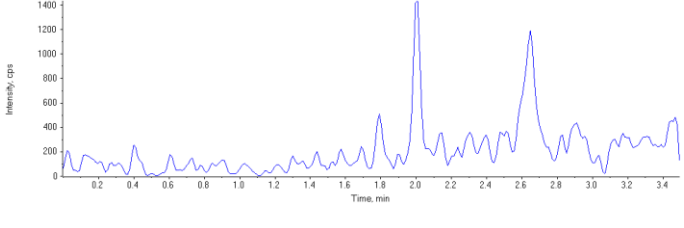
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 67.2 ng/L</p> <p>Area Ratio: 0.0434</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 68.0 ng/L</p> <p>Area Ratio: 0.131</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 68.1 ng/L</p> <p>Area Ratio: 0.114</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 52.8 ng/L</p> <p>Area Ratio: 0.0416</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 68.3 ng/L</p> <p>Area Ratio: 0.0914</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 117. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

Sample Name	4394551~BVX765-01	Injection Vial	21
Sample ID	4394551~BVX765-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:42:53 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	132000.	1.66	1.00	-
MPFHpA	389000.	1.69	1.00	-
MPFOA	363000.	1.86	1.00	-
MPFOS	162000.	1.95	1.00	-
MPFNA	271000.	2.01	1.00	-
13C6-PFHxA IS	1920000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	0	0.00	N/A	N/A	N/A
PFOA 1	0	0.00	N/A	N/A	N/A
PFOS 1	0	0.00	N/A	N/A	N/A
PFNA 1	0	0.00	N/A	N/A	N/A
18O2-PFHxS	132000	1.66	N/A	106.	N/A
13C4-PFHpA	389000	1.69	N/A	105.	N/A
13C4-PFOA	363000	1.86	N/A	113.	N/A
13C4-PFOS	162000	1.95	N/A	107.	N/A
13C5-PFNA	271000	2.01	N/A	105.	N/A
13C6-PFHxA	1920000	1.42	N/A	77.6	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

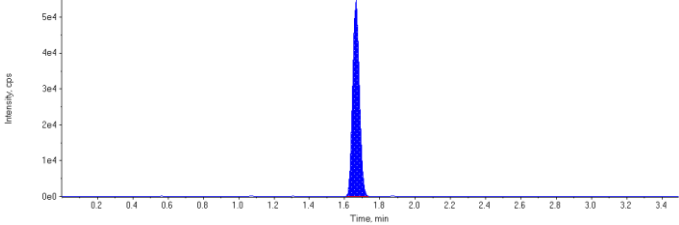
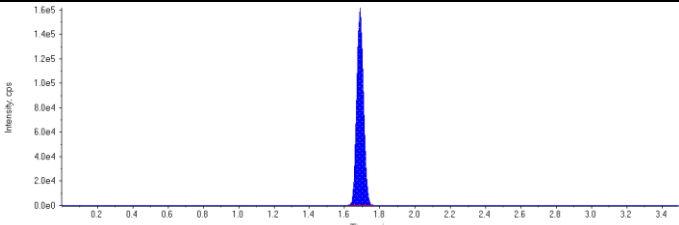
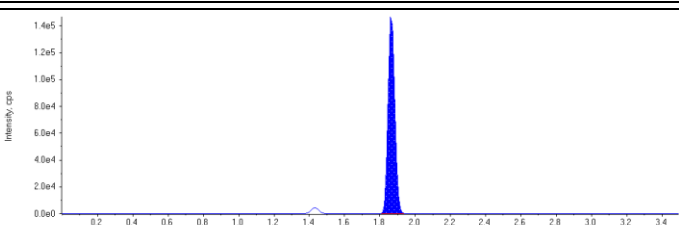
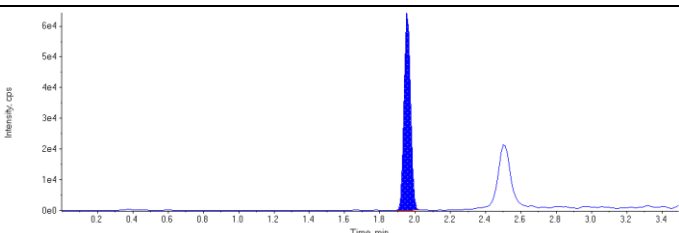
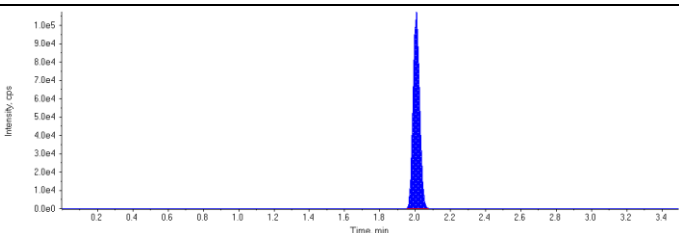
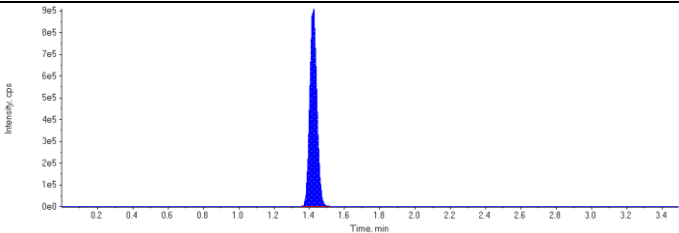
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.92) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.97) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 0.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

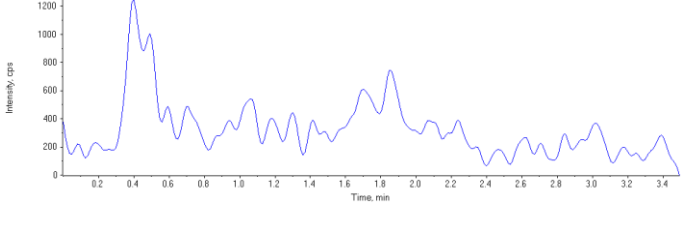
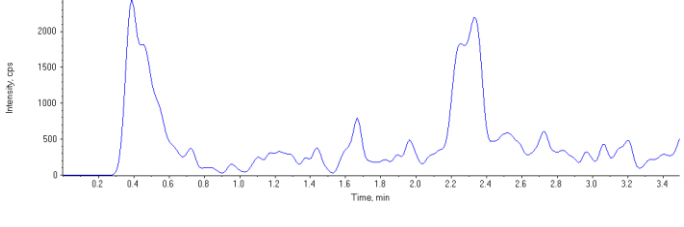
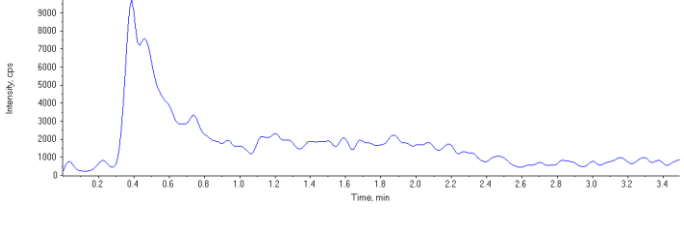
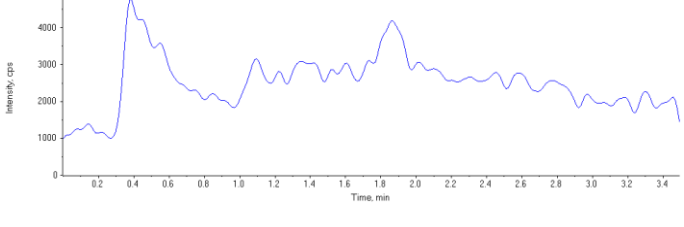
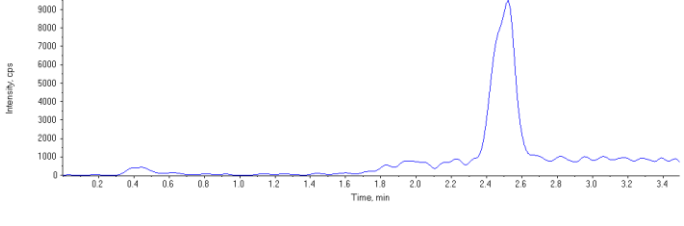
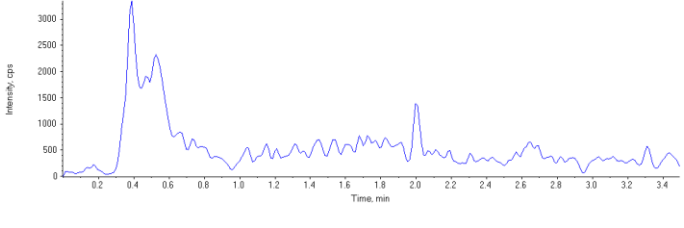
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 106. ng/L</p> <p>Area Ratio: 0.0686</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.202</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 113. ng/L</p> <p>Area Ratio: 0.189</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 107. ng/L</p> <p>Area Ratio: 0.0843</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.141</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 77.6 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

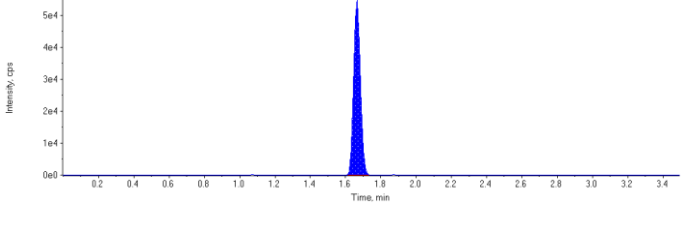
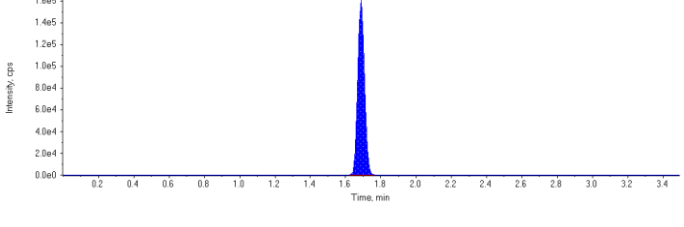
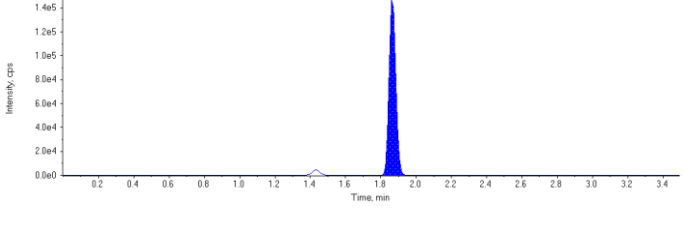
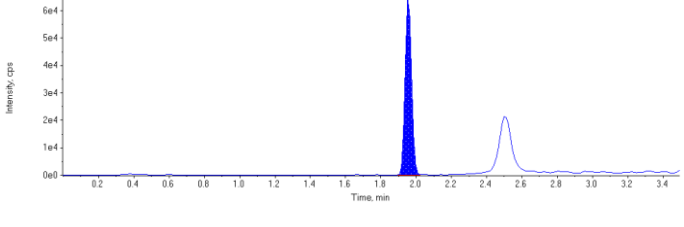
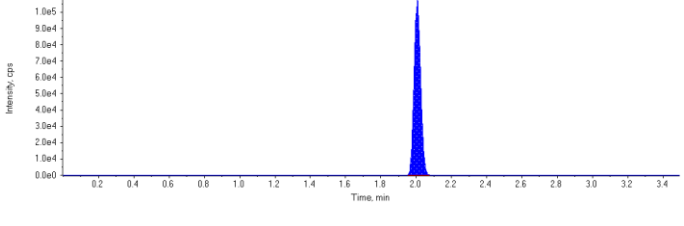
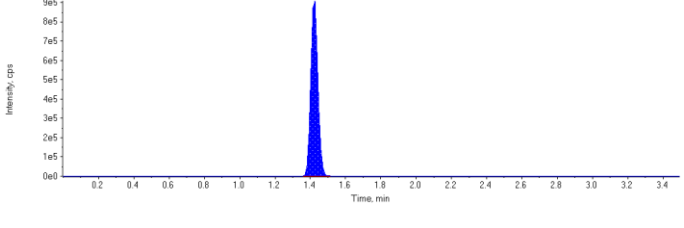
Sample Name	4394551~BVX766-01	Injection Vial	22
Sample ID	4394551~BVX766-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:47:59 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	146000.	1.66	1.00	-
MPFHpA	425000.	1.69	1.00	-
MPFOA	391000.	1.86	1.00	-
MPFOS	164000.	1.96	1.00	-
MPFNA	281000.	2.01	1.00	-
13C6-PFHxA IS	2580000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	0	0.00	N/A	N/A	N/A
PFOA 1	0	0.00	N/A	N/A	N/A
PFOS 1	0	0.00	N/A	N/A	N/A
PFNA 1	0	0.00	N/A	N/A	N/A
18O2-PFHxS	146000	1.66	N/A	87.6	N/A
13C4-PFHpA	425000	1.69	N/A	86.0	N/A
13C4-PFOA	391000	1.86	N/A	90.8	N/A
13C4-PFOS	164000	1.96	N/A	80.8	N/A
13C5-PFNA	281000	2.01	N/A	81.4	N/A
13C6-PFHxA	2580000	1.42	N/A	104.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

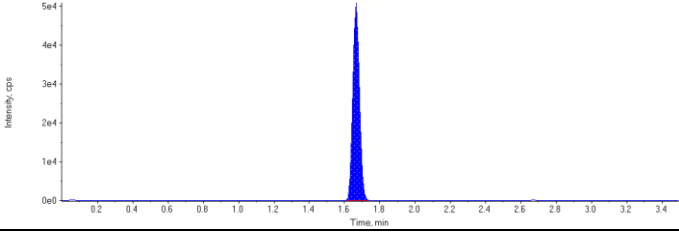
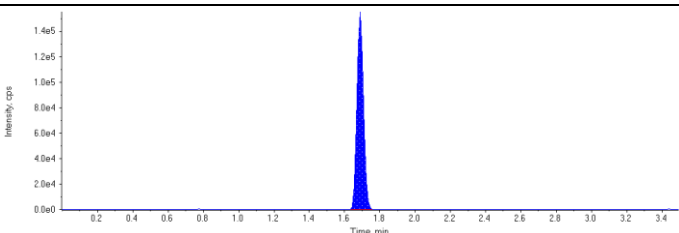
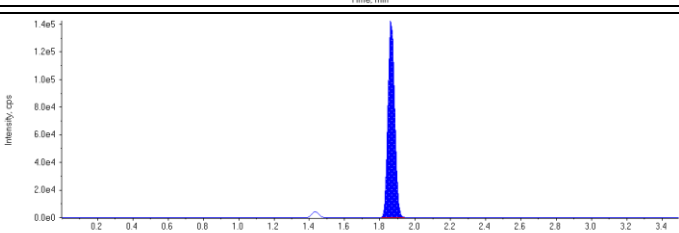
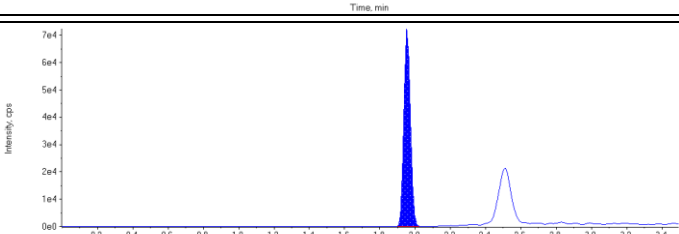
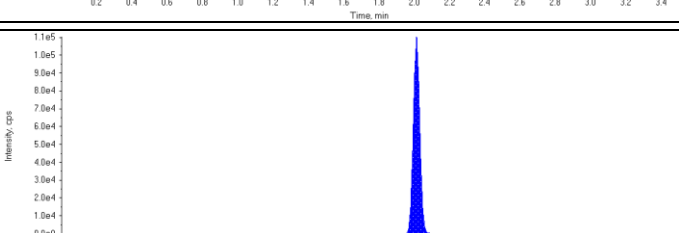
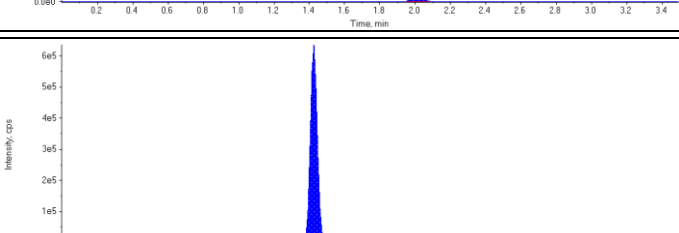
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.92) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.97) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 0.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

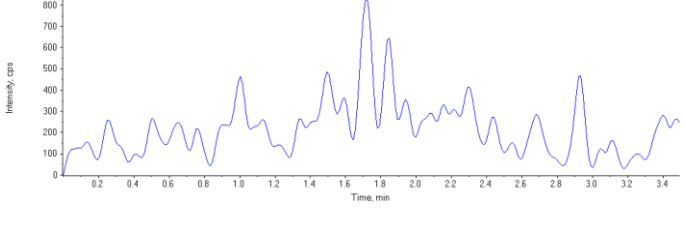
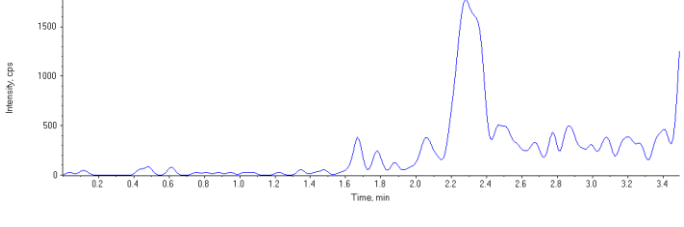
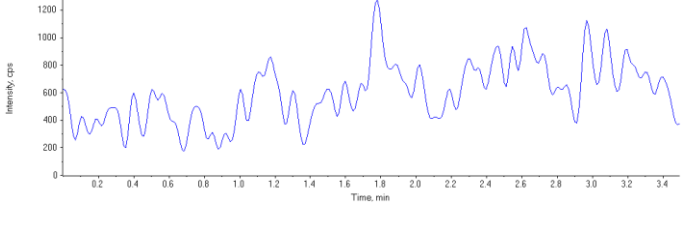
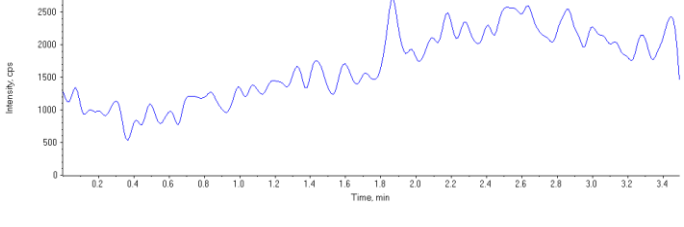
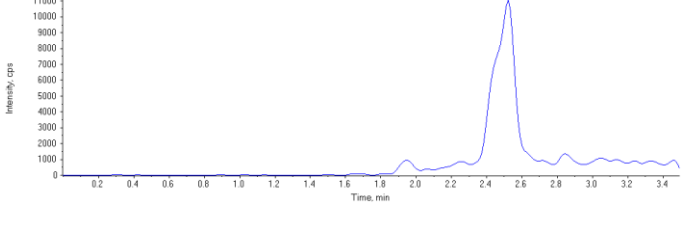
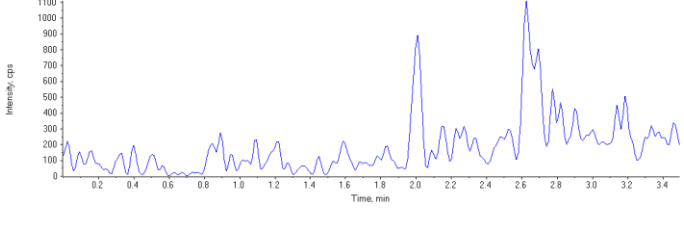
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 87.6 ng/L</p> <p>Area Ratio: 0.0565</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 86.0 ng/L</p> <p>Area Ratio: 0.165</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 90.8 ng/L</p> <p>Area Ratio: 0.152</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 80.8 ng/L</p> <p>Area Ratio: 0.0637</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 81.4 ng/L</p> <p>Area Ratio: 0.109</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 104. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

Sample Name	4394551~BVX767-01	Injection Vial	23
Sample ID	4394551~BVX767-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:58:10 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	131000.	1.67	1.00	-
MPFHpA	397000.	1.69	1.00	-
MPFOA	375000.	1.86	1.00	-
MPFOS	185000.	1.95	1.00	-
MPFNA	279000.	2.01	1.00	-
13C6-PFHxA IS	1730000.	1.43	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	0	0.00	N/A	N/A	N/A
PFOA 1	0	0.00	N/A	N/A	N/A
PFOS 1	0	0.00	N/A	N/A	N/A
PFNA 1	0	0.00	N/A	N/A	N/A
18O2-PFHxS	131000	1.67	N/A	117.	N/A
13C4-PFHpA	397000	1.69	N/A	120.	N/A
13C4-PFOA	375000	1.86	N/A	130.	N/A
13C4-PFOS	185000	1.95	N/A	136.	N/A
13C5-PFNA	279000	2.01	N/A	121.	N/A
13C6-PFHxA	1730000	1.43	N/A	69.8	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.43(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

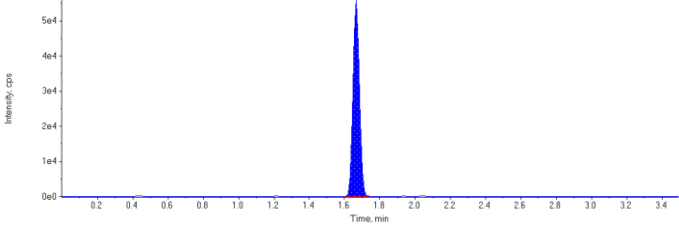
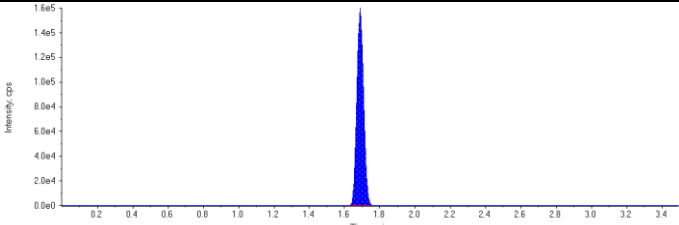
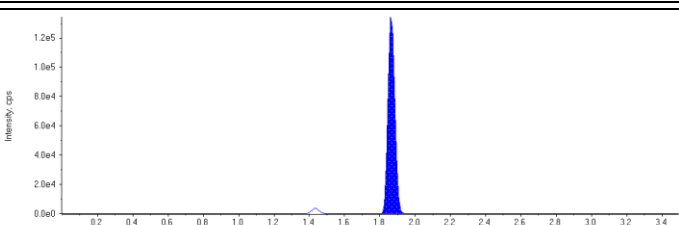
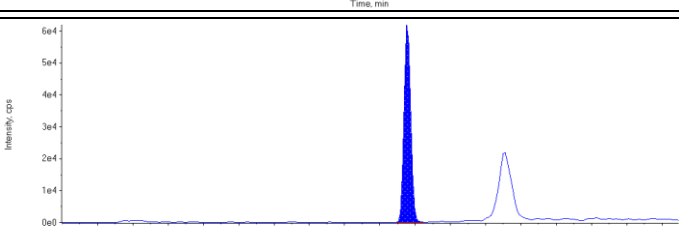
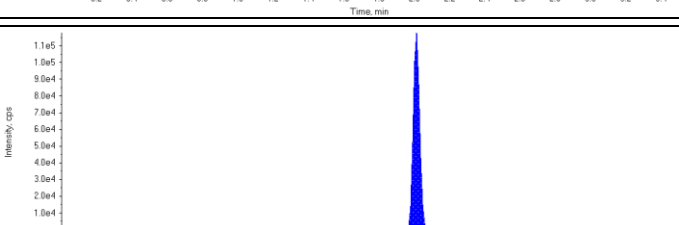
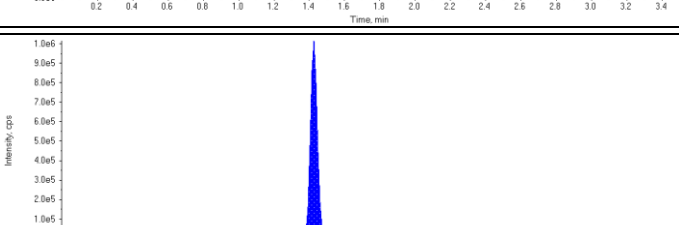
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.92) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.97) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 0.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

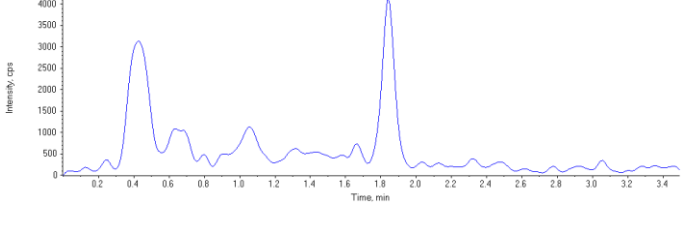
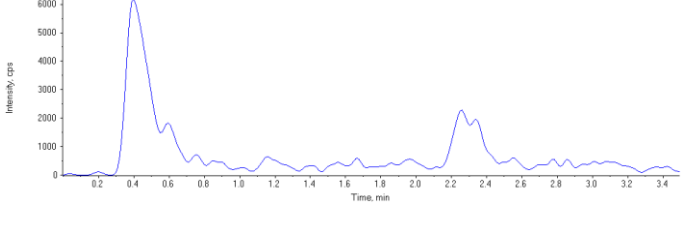
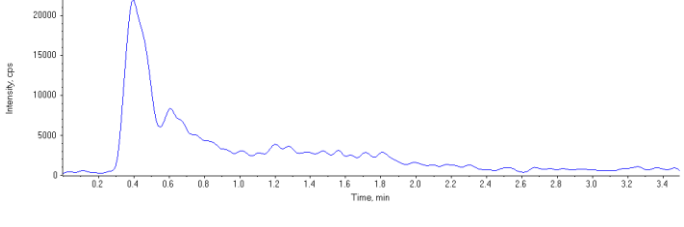
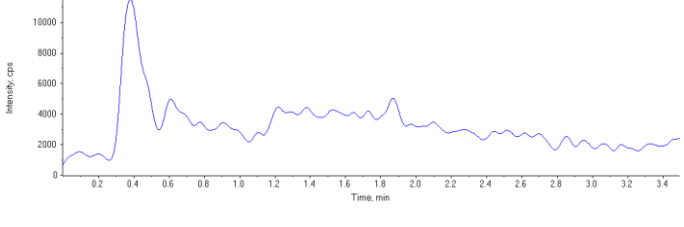
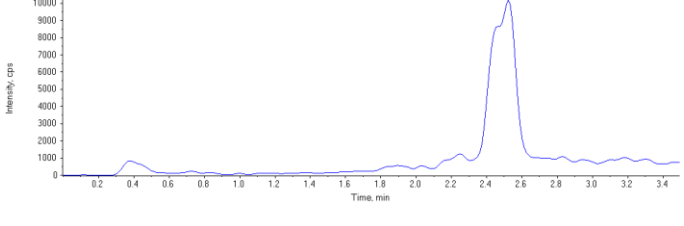
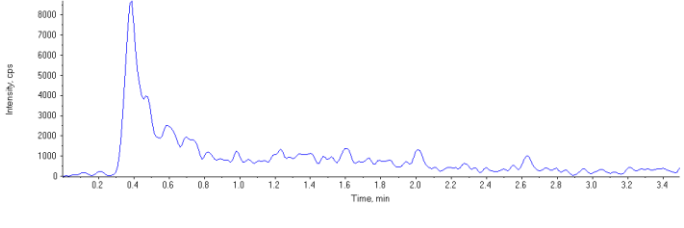
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 117. ng/L</p> <p>Area Ratio: 0.0758</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 120. ng/L</p> <p>Area Ratio: 0.230</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 130. ng/L</p> <p>Area Ratio: 0.217</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 136. ng/L</p> <p>Area Ratio: 0.107</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 121. ng/L</p> <p>Area Ratio: 0.162</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.43 (1.42) min</p> <p>Calculated Conc: 69.8 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

Sample Name	4394551~BVX768-01	Injection Vial	24
Sample ID	4394551~BVX768-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 1:03:17 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	141000.	1.67	1.00	-
MPFHpA	421000.	1.69	1.00	-
MPFOA	363000.	1.86	1.00	-
MPFOS	163000.	1.96	1.00	-
MPFNA	297000.	2.01	1.00	-
13C6-PFHxA IS	2760000.	1.43	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	N/A	N/A	N/A
PFHxS 1	0	0.00	N/A	N/A	N/A
PFHpA 1	0	0.00	N/A	N/A	N/A
PFOA 1	0	0.00	N/A	N/A	N/A
PFOS 1	0	0.00	N/A	N/A	N/A
PFNA 1	0	0.00	N/A	N/A	N/A
18O2-PFHxS	141000	1.67	N/A	79.0	N/A
13C4-PFHpA	421000	1.69	N/A	79.3	N/A
13C4-PFOA	363000	1.86	N/A	78.5	N/A
13C4-PFOS	163000	1.96	N/A	74.7	N/A
13C5-PFNA	297000	2.01	N/A	80.3	N/A
13C6-PFHxA	2760000	1.43	N/A	112.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.43(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

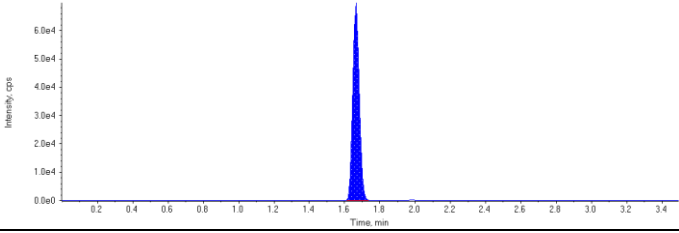
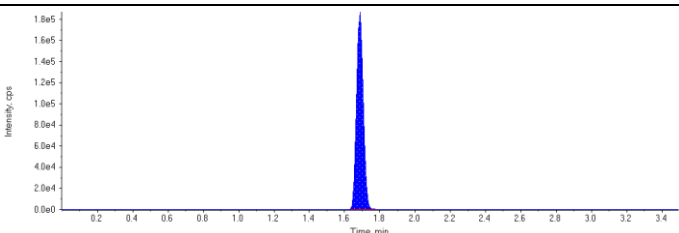
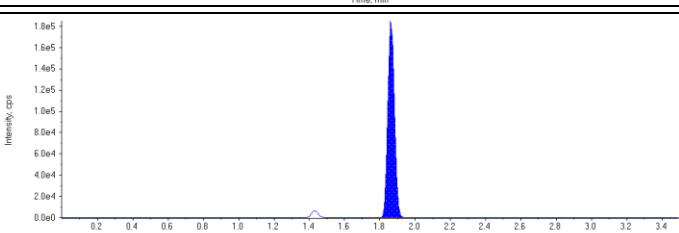
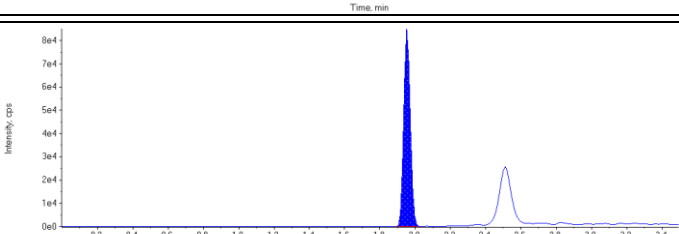
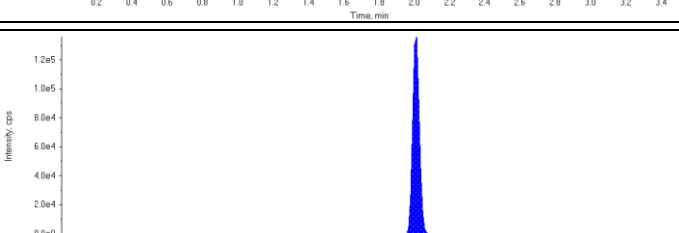
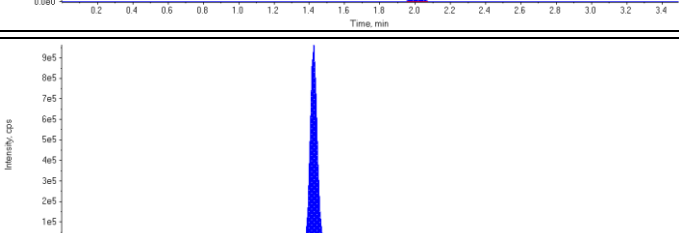
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.92) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.97) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 0.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

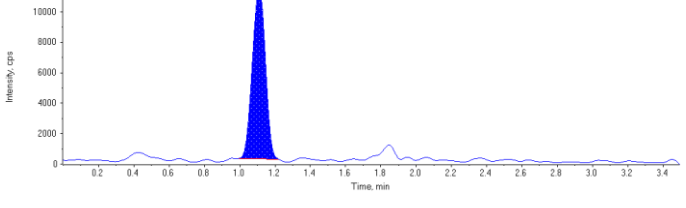
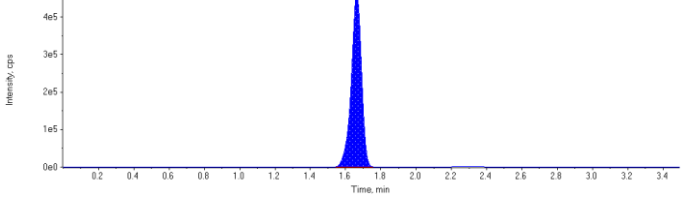
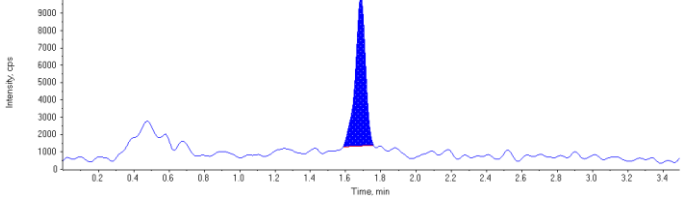
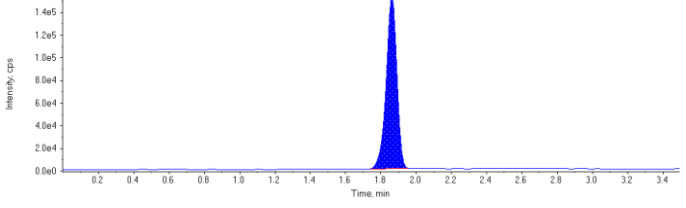
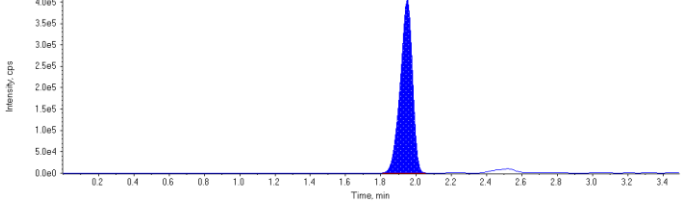
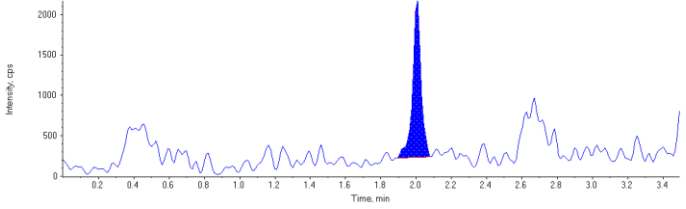
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 79.0 ng/L</p> <p>Area Ratio: 0.0510</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 79.3 ng/L</p> <p>Area Ratio: 0.152</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 78.5 ng/L</p> <p>Area Ratio: 0.131</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 74.7 ng/L</p> <p>Area Ratio: 0.0589</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 80.3 ng/L</p> <p>Area Ratio: 0.107</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.43 (1.42) min</p> <p>Calculated Conc: 112. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

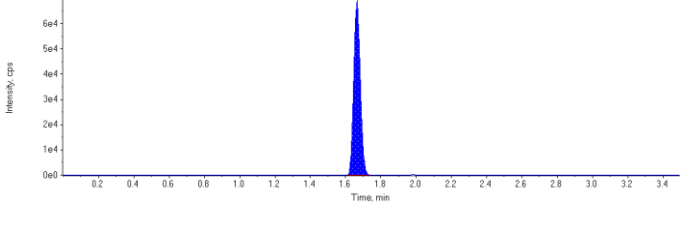
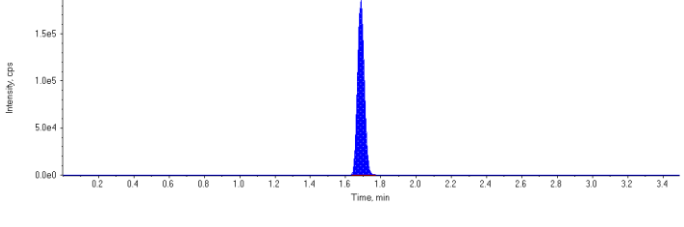
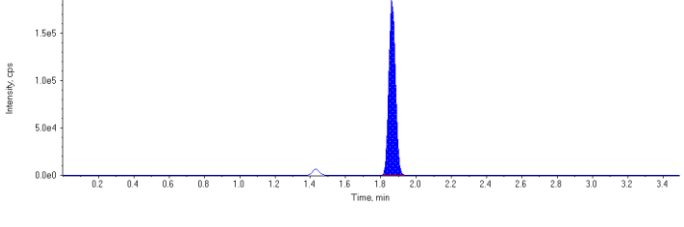
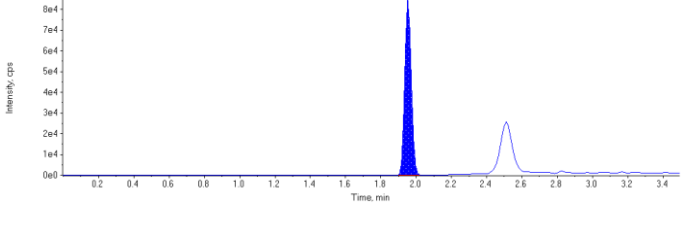
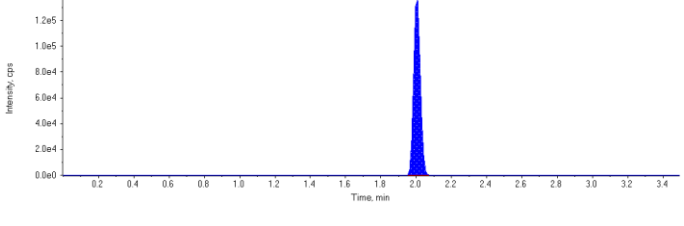
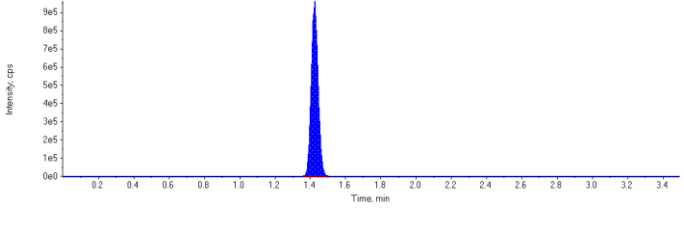
Sample Name	4394551~BVX762-01(10X)	Injection Vial	25
Sample ID	4394551~BVX762-01(10X)	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 1:08:23 PM	Dilution Factor	10.0
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	178000.	1.66	1.00	-
MPFHpA	492000.	1.69	1.00	-
MPFOA	477000.	1.86	1.00	-
MPFOS	217000.	1.95	1.00	-
MPFNA	364000.	2.00	1.00	-
13C6-PFHxA IS	2620000.	1.42	0.100	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	57700	1.11	N/A	15.9	N/A
PFHxS 1	1870000	1.66	N/A	363.	N/A
PFHpA 1	34600	1.69	N/A	7.20	N/A
PFOA 1	638000	1.86	N/A	92.2	N/A
PFOS 1	1940000	1.95	N/A	576.	N/A
PFNA 1	6390	2.00	N/A	1.34	N/A
18O2-PFHxS	178000	1.66	N/A	105.	N/A
13C4-PFHpA	492000	1.69	N/A	98.0	N/A
13C4-PFOA	477000	1.86	N/A	109.	N/A
13C4-PFOS	217000	1.95	N/A	105.	N/A
13C5-PFNA	364000	2.00	N/A	104.	N/A
13C6-PFHxA	2620000	1.42	N/A	1060.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.00(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 0.100 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

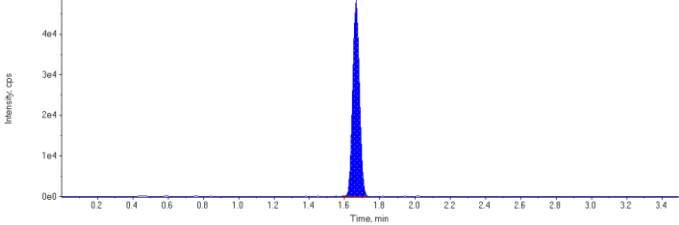
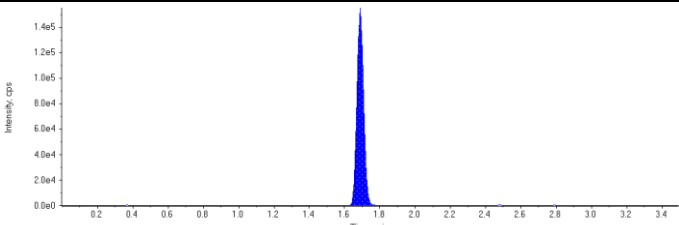
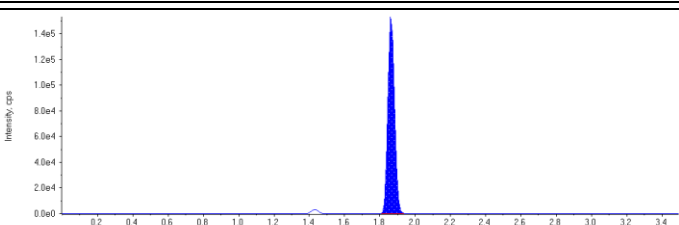
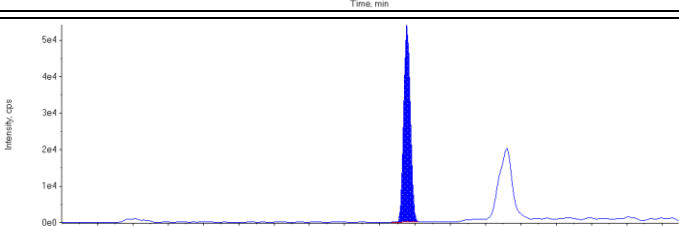
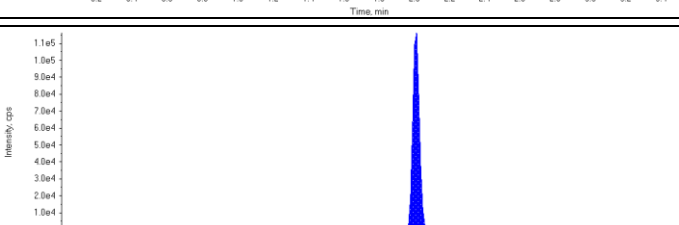
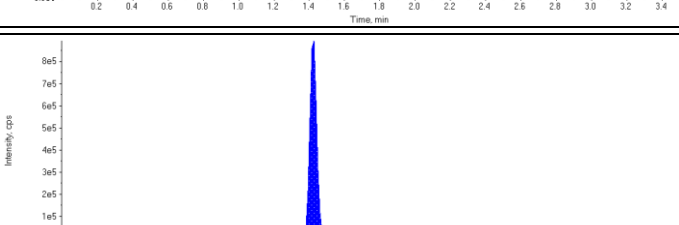
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.11 (1.15) min</p> <p>Calculated Conc: 15.9 ng/L</p> <p>Area Ratio: 0.325</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 363. ng/L</p> <p>Area Ratio: 10.5</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 7.20 ng/L</p> <p>Area Ratio: 0.0702</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.92) min</p> <p>Calculated Conc: 92.2 ng/L</p> <p>Area Ratio: 1.34</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 576. ng/L</p> <p>Area Ratio: 8.93</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.00 (2.02) min</p> <p>Calculated Conc: 1.34 ng/L</p> <p>Area Ratio: 0.0176</p> <p>Sample Type: (Unknown)</p>	

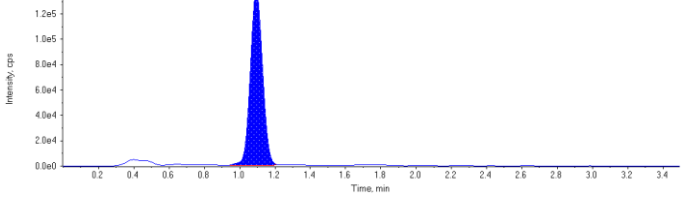
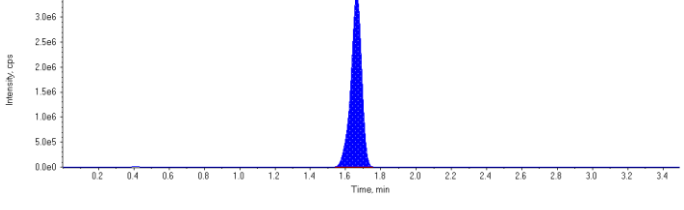
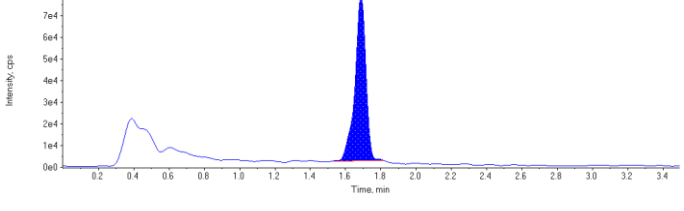
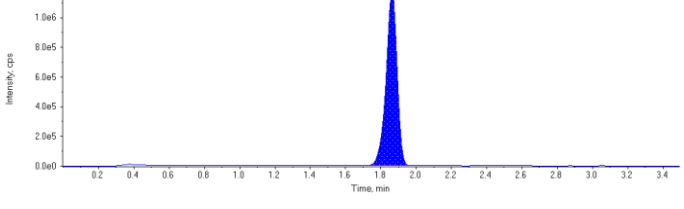
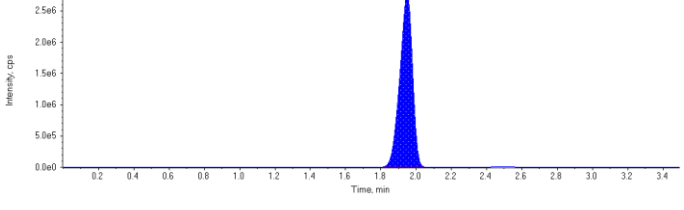
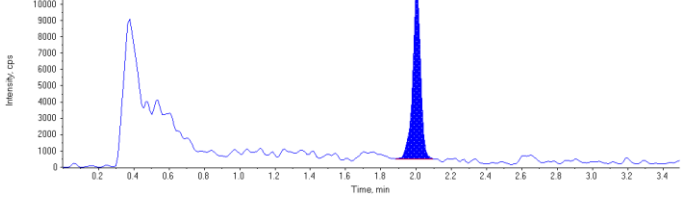
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.0679</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 98.0 ng/L</p> <p>Area Ratio: 0.188</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 109. ng/L</p> <p>Area Ratio: 0.182</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.0830</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.00 (2.02) min</p> <p>Calculated Conc: 104. ng/L</p> <p>Area Ratio: 0.139</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 1060. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	

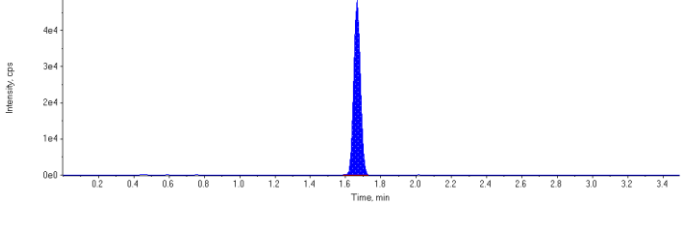
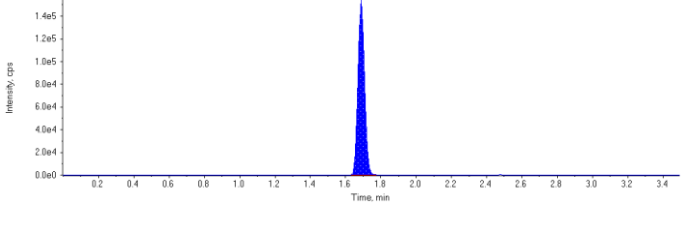
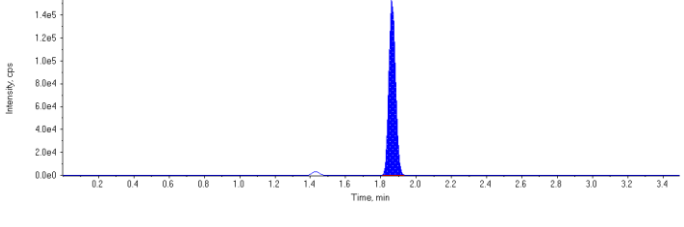
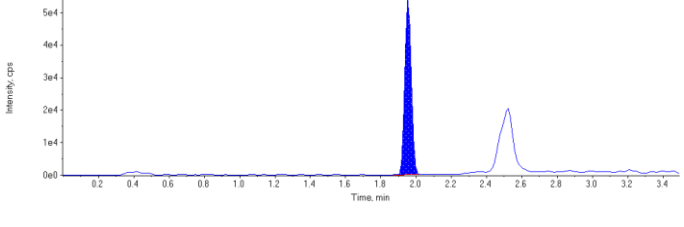
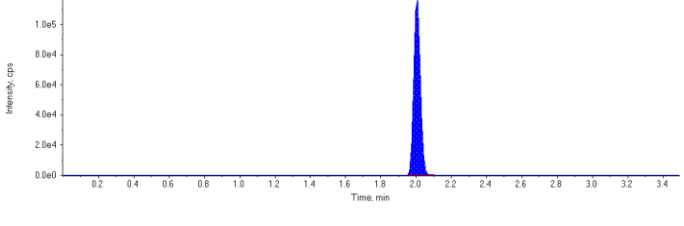
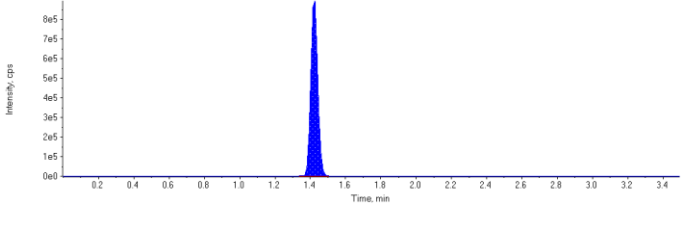
Sample Name	4394551~BVX762-01	Injection Vial	26
Sample ID	4394551~BVX762-01	Injection Volume (µL)	3
Sample Type	Unknown	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 1:13:29 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	128000.	1.67	1.00	-
MPFHpA	400000.	1.69	1.00	-
MPFOA	400000.	1.86	1.00	-
MPFOS	139000.	1.95	1.00	-
MPFNA	306000.	2.00	1.00	-
13C6-PFHxA IS	2510000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	660000	1.09	N/A	18.7	N/A
PFHxS 1	14800000	1.66	N/A	396.	N/A
PFHpA 1	327000	1.69	N/A	6.96	N/A
PFOA 1	5080000	1.86	N/A	87.0	N/A
PFOS 1	13800000	1.95	N/A	634.	N/A
PFNA 1	32500	2.00	N/A	0.803	N/A
18O2-PFHxS	128000	1.67	N/A	79.1	N/A
13C4-PFHpA	400000	1.69	N/A	83.2	N/A
13C4-PFOA	400000	1.86	N/A	95.5	N/A
13C4-PFOS	139000	1.95	N/A	70.4	N/A
13C5-PFNA	306000	2.00	N/A	91.3	N/A
13C6-PFHxA	2510000	1.42	N/A	101.	N/A

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.00(2.02) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Unknown)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Unknown)</p>	<p style="text-align: center;">This image is not available</p>

<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 18.7 ng/L</p> <p>Area Ratio: 5.16</p> <p>Sample Type: (Unknown)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 396. ng/L</p> <p>Area Ratio: 115.</p> <p>Sample Type: (Unknown)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 6.96 ng/L</p> <p>Area Ratio: 0.817</p> <p>Sample Type: (Unknown)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.92) min</p> <p>Calculated Conc: 87.0 ng/L</p> <p>Area Ratio: 12.7</p> <p>Sample Type: (Unknown)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 634. ng/L</p> <p>Area Ratio: 99.0</p> <p>Sample Type: (Unknown)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.00 (2.02) min</p> <p>Calculated Conc: 0.803 ng/L</p> <p>Area Ratio: 0.106</p> <p>Sample Type: (Unknown)</p>	

<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 79.1 ng/L</p> <p>Area Ratio: 0.0511</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 83.2 ng/L</p> <p>Area Ratio: 0.160</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 95.5 ng/L</p> <p>Area Ratio: 0.160</p> <p>Sample Type: (Unknown)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 70.4 ng/L</p> <p>Area Ratio: 0.0555</p> <p>Sample Type: (Unknown)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.00 (2.02) min</p> <p>Calculated Conc: 91.3 ng/L</p> <p>Area Ratio: 0.122</p> <p>Sample Type: (Unknown)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Unknown)</p>	



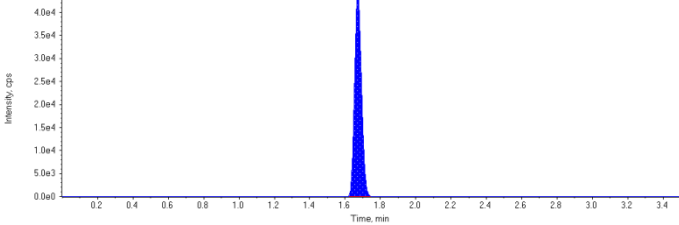
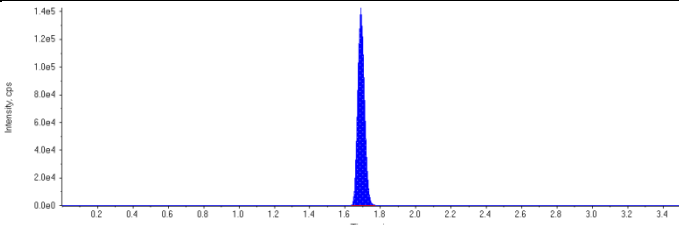
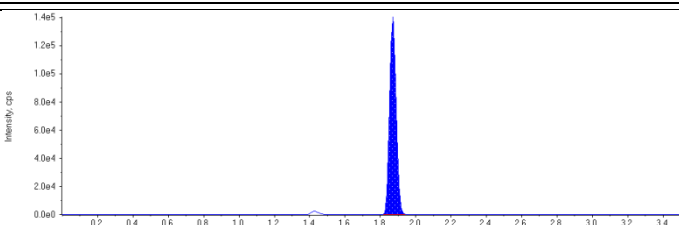
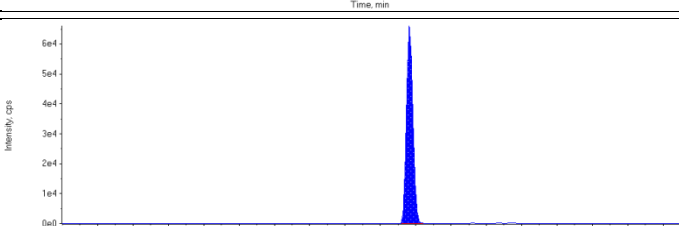
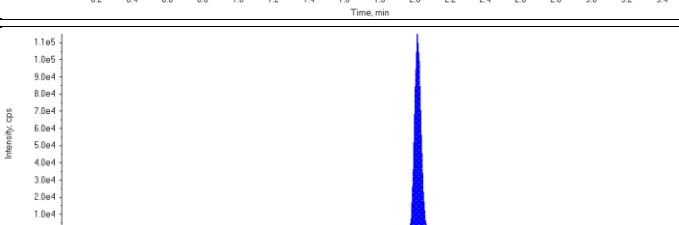
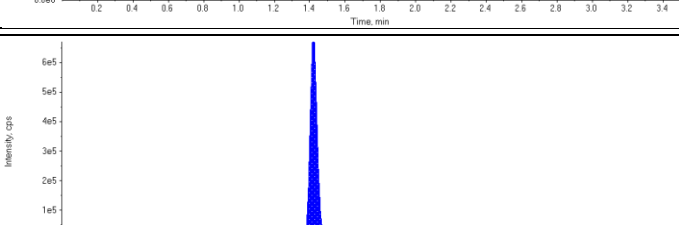
4. QA/QC Data

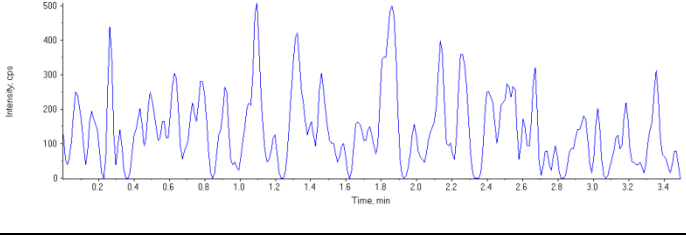
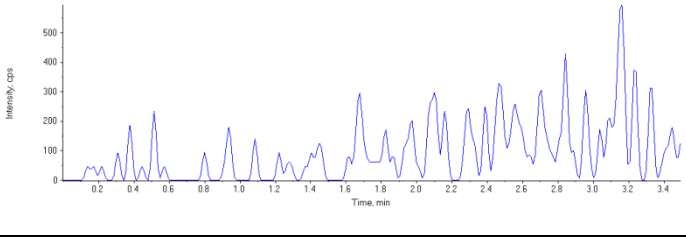
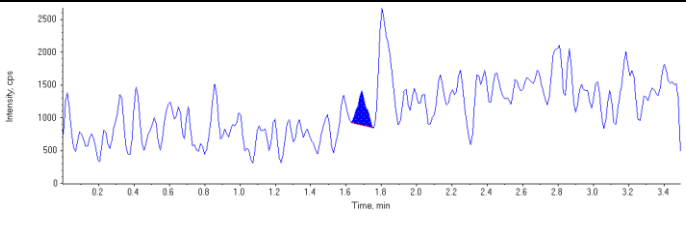
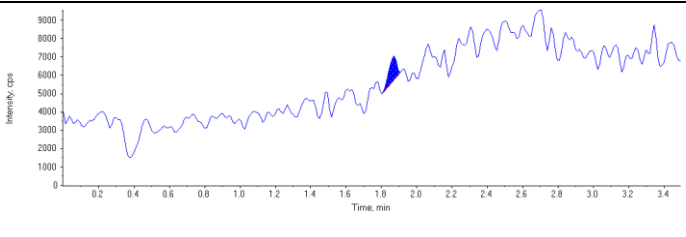
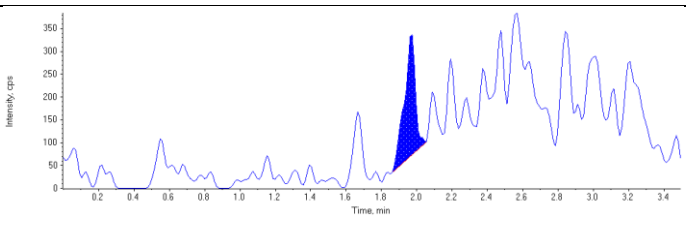
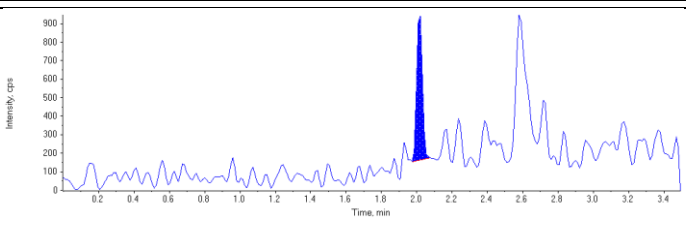
Maxxam Analytics International
6740 Campobello Rd
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

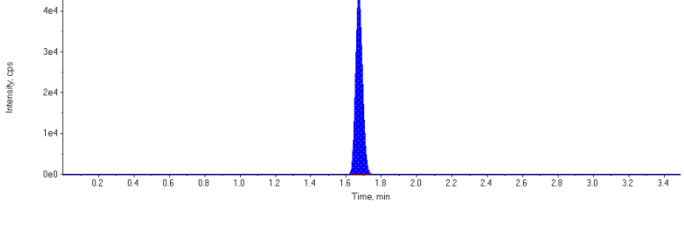
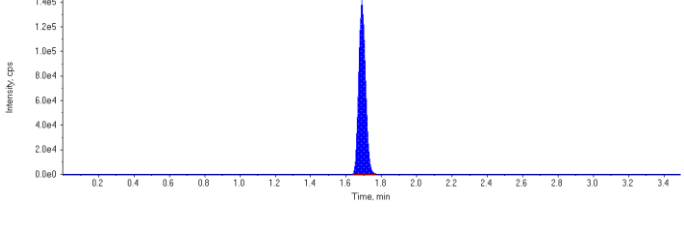
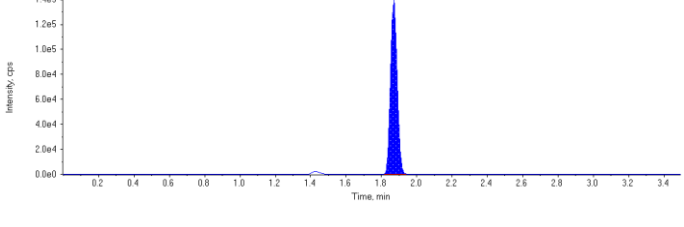
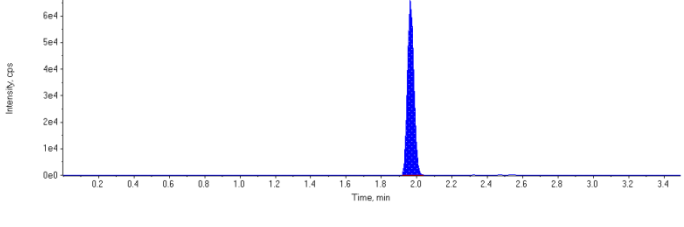
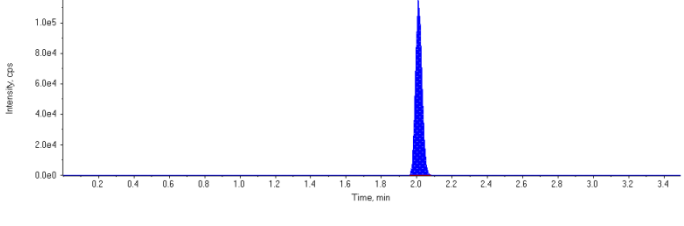
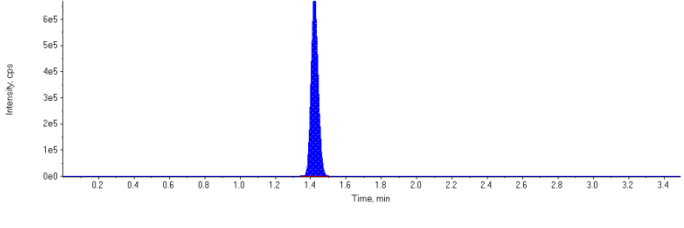
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Sample ID	4390179~BLANK	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 1:55:57 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	120000.	1.67	1.00	-
MPFHpA	374000.	1.69	1.00	-
MPFOA	361000.	1.87	1.00	-
MPFOS	167000.	1.96	1.00	-
MPFNA	292000.	2.01	1.00	-
13C6-PFHxA IS	1930000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	0.00	N/A	0.0
PFHxS 1	0	0.00	0.00	N/A	0.0
PFHpA 1	1770	1.69	0.00	0.118	0.0
PFOA 1	4050	1.87	0.00	N/A	0.0
PFOS 1	1160	1.97	0.00	0.375	0.0
PFNA 1	1770	2.02	0.00	N/A	0.0
18O2-PFHxS	120000	1.67	100.	77.7	77.7
13C4-PFHpA	374000	1.69	100.	83.8	83.8
13C4-PFOA	361000	1.87	100.	90.1	90.1
13C4-PFOS	167000	1.96	100.	83.8	83.8
13C5-PFNA	292000	2.01	100.	86.3	86.3
13C6-PFHxA	1930000	1.42	100.	98.1	98.1

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

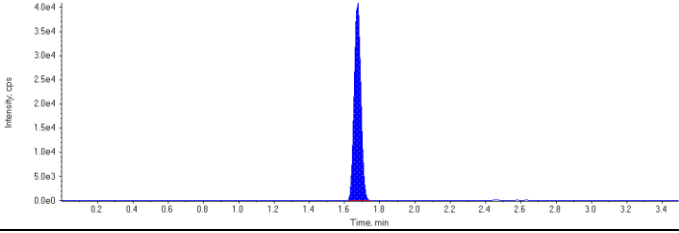
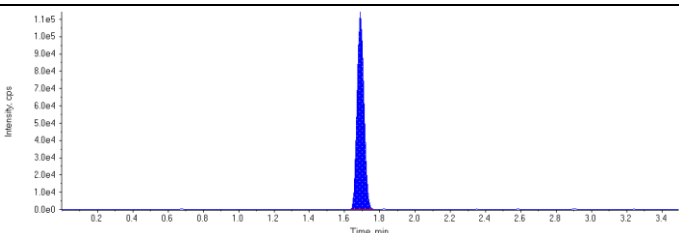
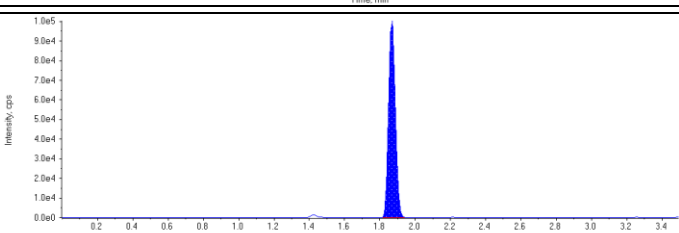
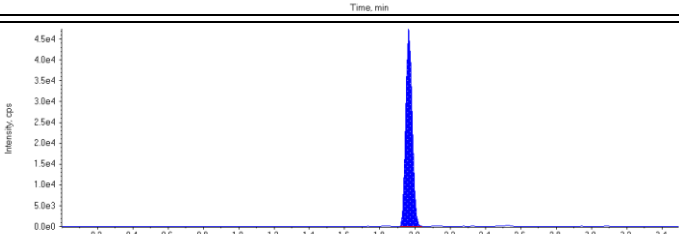
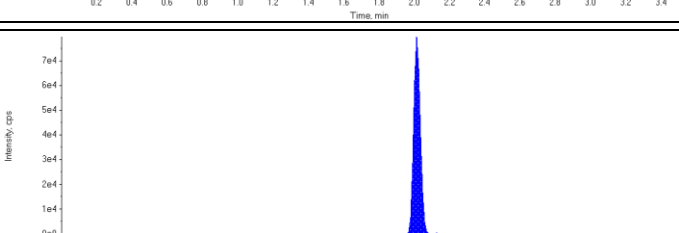
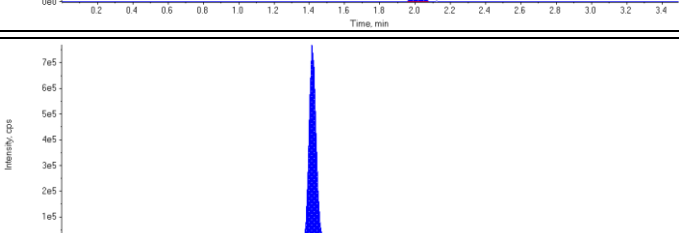
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.09) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 0.118 ng/L</p> <p>Area Ratio: 0.00472</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.0112</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 0.375 ng/L</p> <p>Area Ratio: 0.00693</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.02 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00605</p> <p>Sample Type: (Quality Control)</p>	

<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 77.7 ng/L</p> <p>Area Ratio: 0.0622</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 83.8 ng/L</p> <p>Area Ratio: 0.193</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 90.1 ng/L</p> <p>Area Ratio: 0.187</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 83.8 ng/L</p> <p>Area Ratio: 0.0864</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 86.3 ng/L</p> <p>Area Ratio: 0.151</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 98.1 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

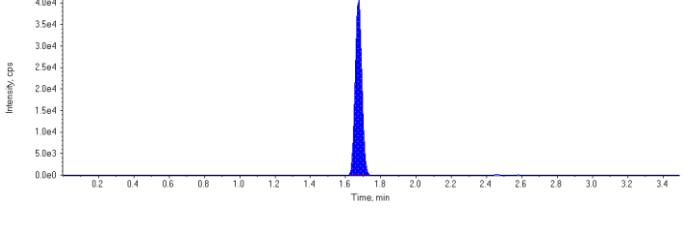
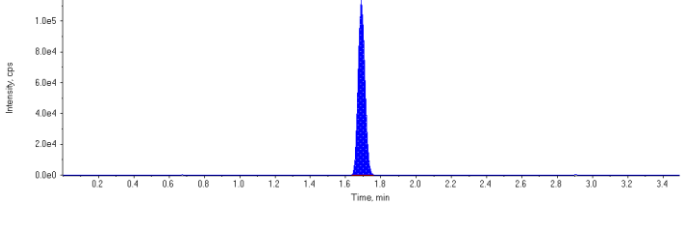
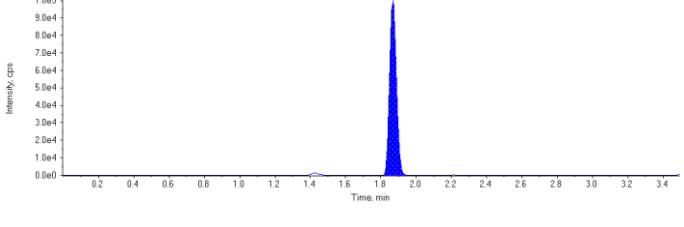
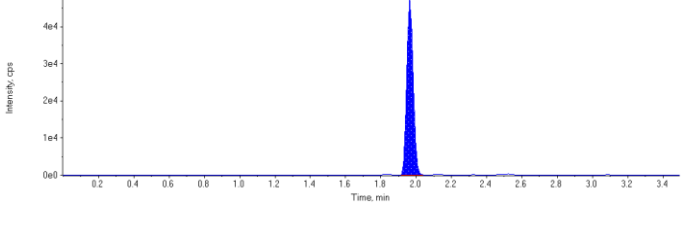
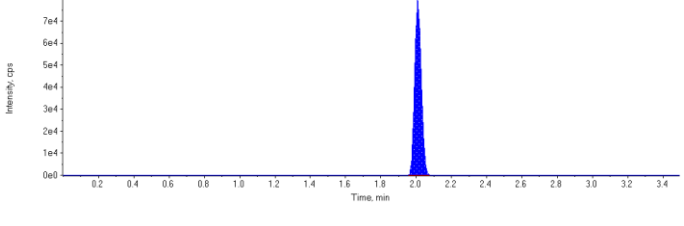
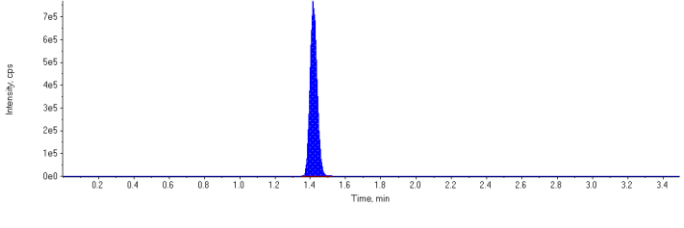
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Sample ID	4390179~MTRX SPK (BVX757)	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:41:55 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	108000.	1.67	1.00	-
MPFHpA	303000.	1.69	1.00	-
MPFOA	268000.	1.87	1.00	-
MPFOS	120000.	1.96	1.00	-
MPFNA	208000.	2.01	1.00	-
13C6-PFHxA IS	2140000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	2270000	1.09	50.0	69.6	139.0
PFHxS 1	2280000	1.67	50.0	71.6	143.0
PFHpA 1	2760000	1.69	50.0	73.6	147.0
PFOA 1	3120000	1.87	50.0	80.3	161.0
PFOS 1	1550000	1.96	50.0	76.6	153.0
PFNA 1	2320000	2.01	50.0	83.9	168.0
18O2-PFHxS	108000	1.67	100.	62.9	62.9
13C4-PFHpA	303000	1.69	100.	61.4	61.4
13C4-PFOA	268000	1.87	100.	60.5	60.5
13C4-PFOS	120000	1.96	100.	54.6	54.6
13C5-PFNA	208000	2.01	100.	55.4	55.4
13C6-PFHxA	2140000	1.42	100.	108.	108.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

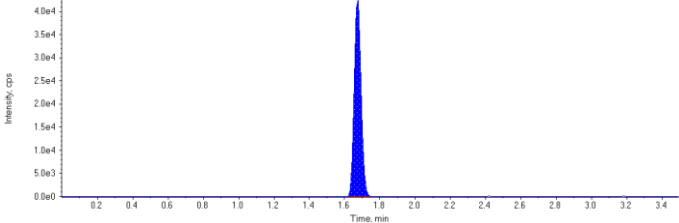
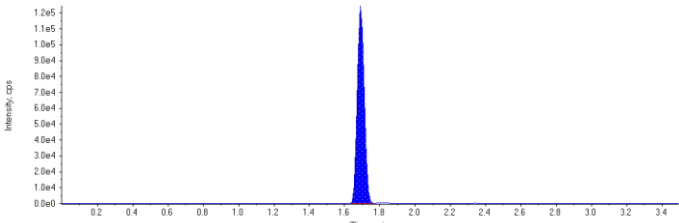
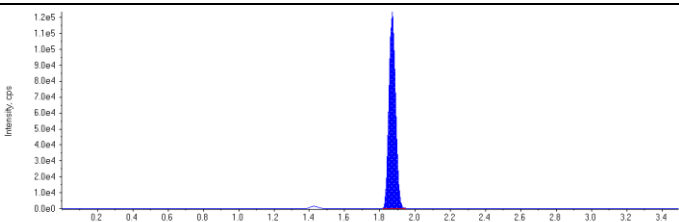
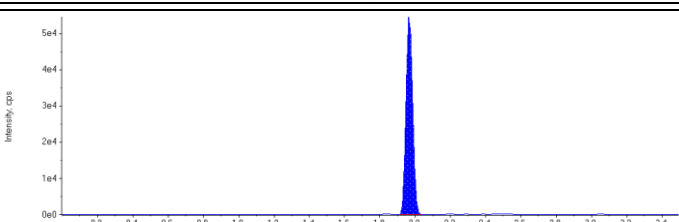
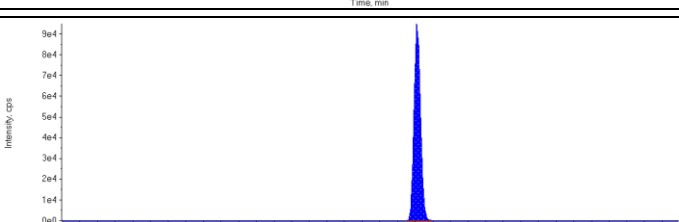
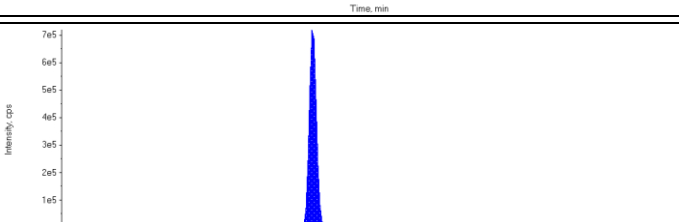
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 69.6 ng/L</p> <p>Area Ratio: 21.1</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 71.6 ng/L</p> <p>Area Ratio: 21.2</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 73.6 ng/L</p> <p>Area Ratio: 9.13</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 80.3 ng/L</p> <p>Area Ratio: 11.6</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 76.6 ng/L</p> <p>Area Ratio: 12.9</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 83.9 ng/L</p> <p>Area Ratio: 11.2</p> <p>Sample Type: (Quality Control)</p>	

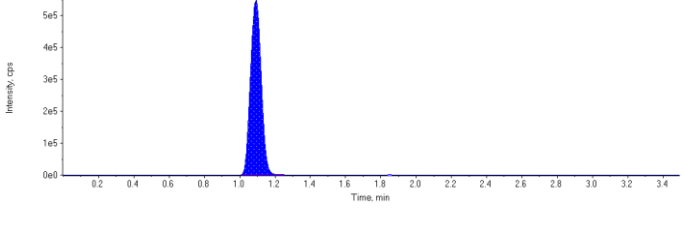
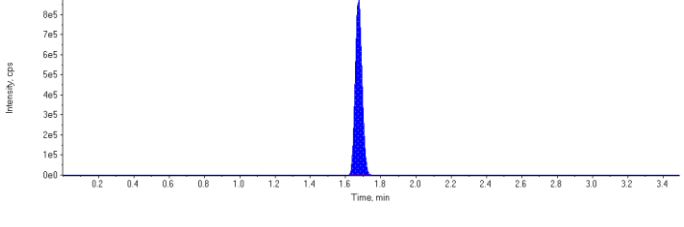
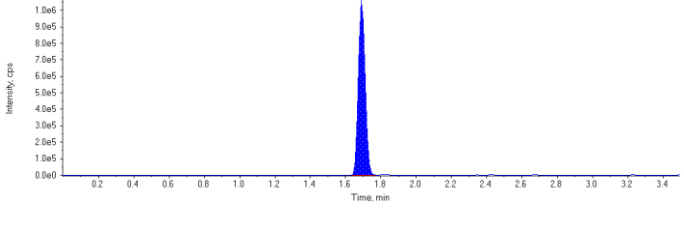
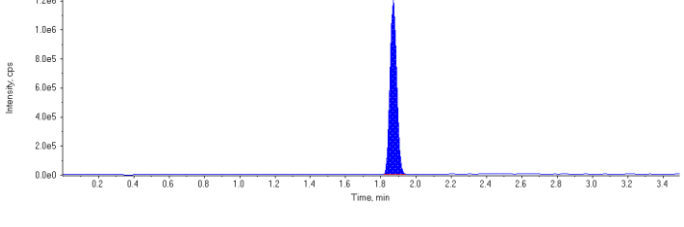
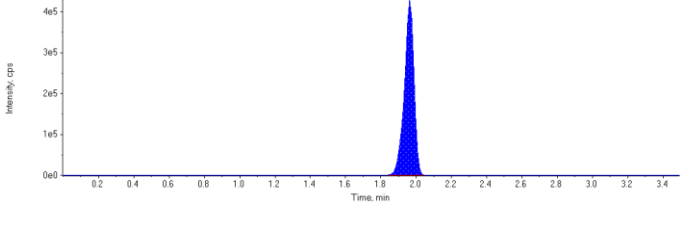
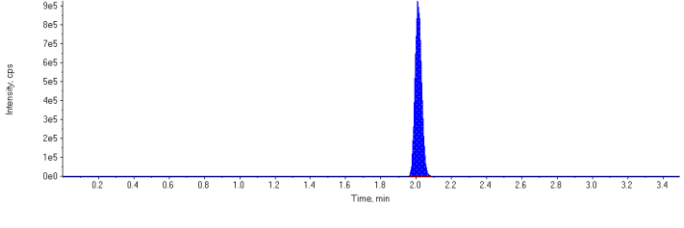
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 62.9 ng/L</p> <p>Area Ratio: 0.0504</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 61.4 ng/L</p> <p>Area Ratio: 0.142</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 60.5 ng/L</p> <p>Area Ratio: 0.125</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 54.6 ng/L</p> <p>Area Ratio: 0.0563</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 55.4 ng/L</p> <p>Area Ratio: 0.0972</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 108. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

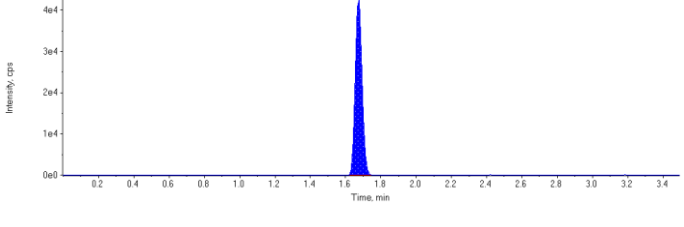
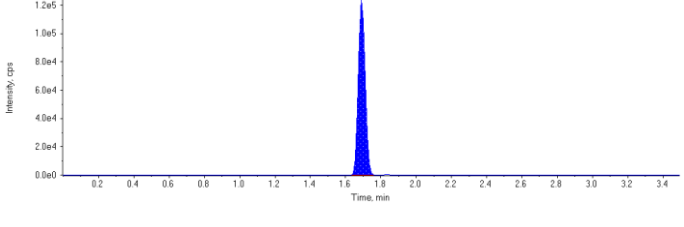
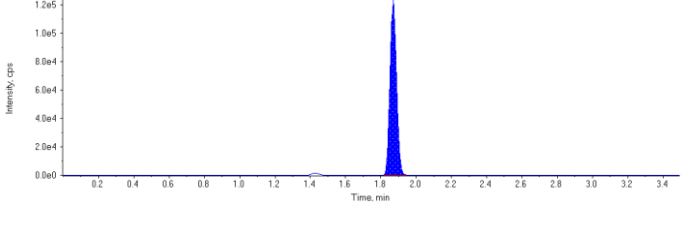
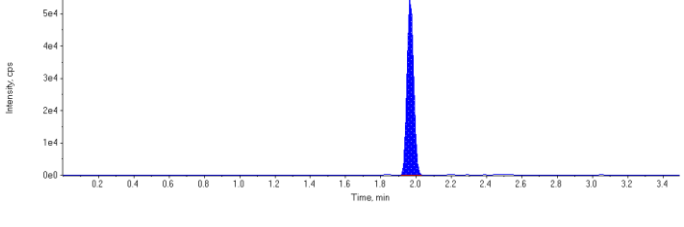
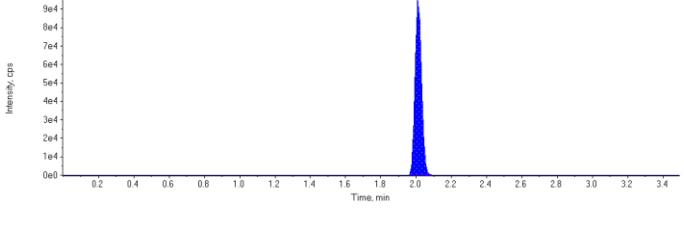
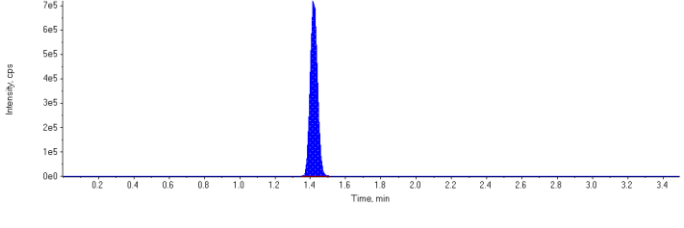
Sample Name	4390179~MTRX SPK:D1	Injection Vial	11
Sample ID	4390179~MTRX SPK:D1 (BVX757)	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:47:05 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	115000.	1.67	1.00	-
MPFHpA	335000.	1.69	1.00	-
MPFOA	316000.	1.87	1.00	-
MPFOS	143000.	1.97	1.00	-
MPFNA	243000.	2.01	1.00	-
13C6-PFHxA IS	2080000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	2320000	1.09	50.0	66.4	133.0
PFHxS 1	2360000	1.67	50.0	69.0	138.0
PFHpA 1	2810000	1.69	50.0	67.6	135.0
PFOA 1	3120000	1.87	50.0	68.1	136.0
PFOS 1	1620000	1.96	50.0	67.0	134.0
PFNA 1	2390000	2.01	50.0	73.7	147.0
18O2-PFHxS	115000	1.67	100.	69.4	69.4
13C4-PFHpA	335000	1.69	100.	70.0	70.0
13C4-PFOA	316000	1.87	100.	73.5	73.5
13C4-PFOS	143000	1.97	100.	67.0	67.0
13C5-PFNA	243000	2.01	100.	66.8	66.8
13C6-PFHxA	2080000	1.42	100.	105.	105.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.97(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

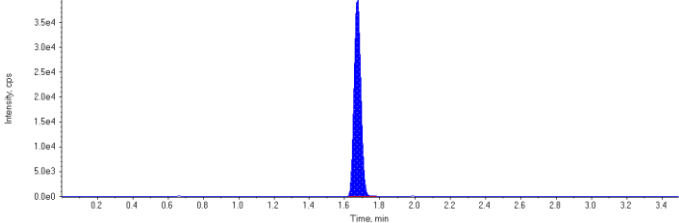
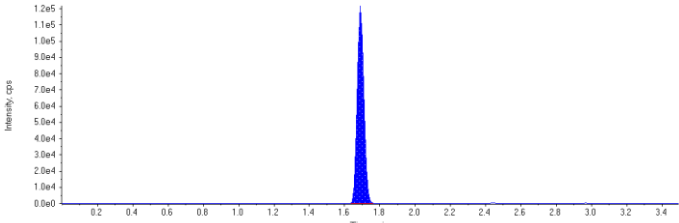
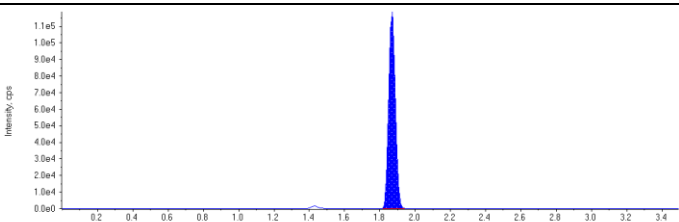
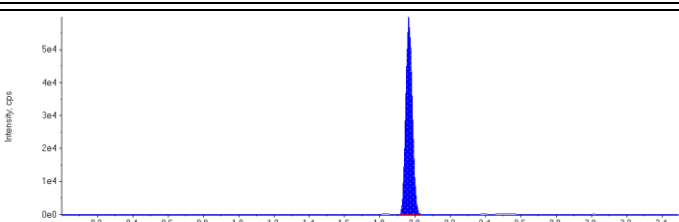
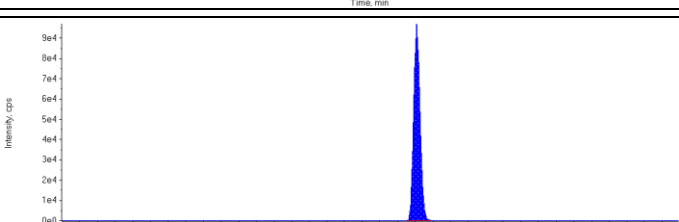
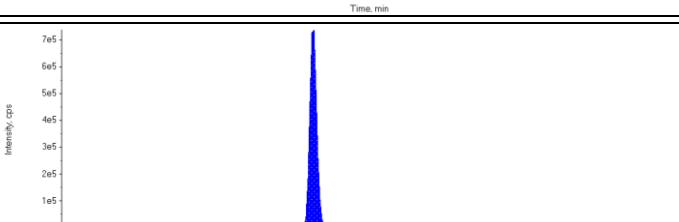
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 66.4 ng/L</p> <p>Area Ratio: 20.1</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 69.0 ng/L</p> <p>Area Ratio: 20.4</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 67.6 ng/L</p> <p>Area Ratio: 8.38</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 68.1 ng/L</p> <p>Area Ratio: 9.86</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 67.0 ng/L</p> <p>Area Ratio: 11.3</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 73.7 ng/L</p> <p>Area Ratio: 9.81</p> <p>Sample Type: (Quality Control)</p>	

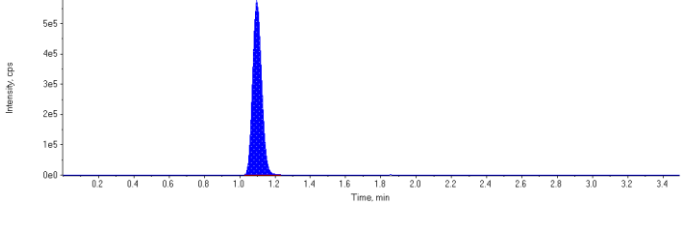
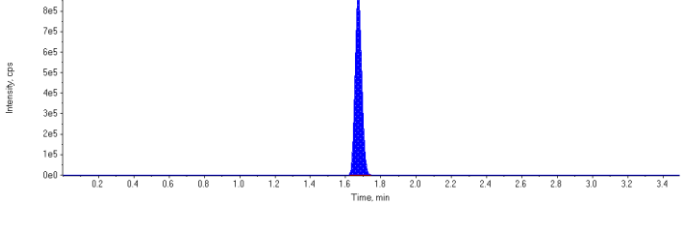
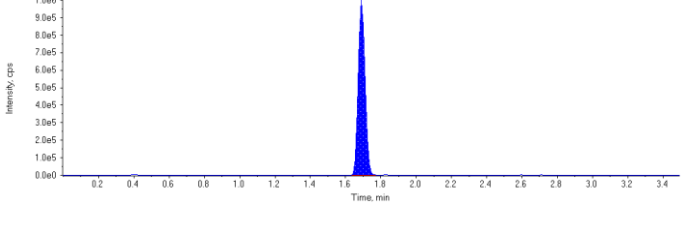
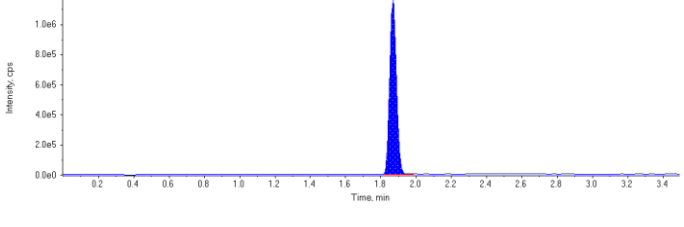
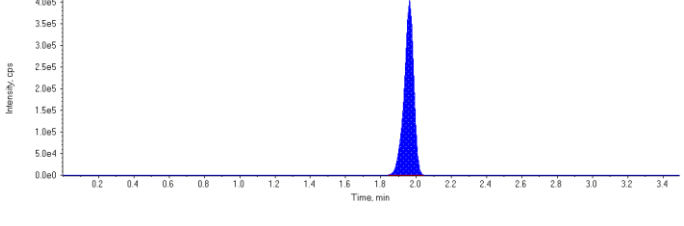
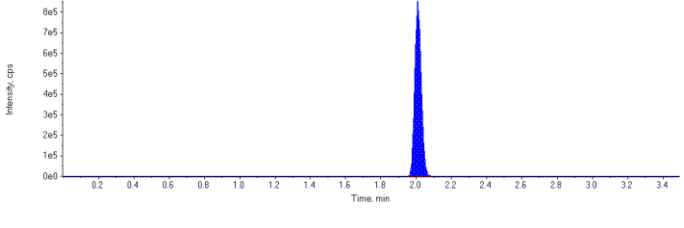
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 69.4 ng/L</p> <p>Area Ratio: 0.0556</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 70.0 ng/L</p> <p>Area Ratio: 0.161</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 73.5 ng/L</p> <p>Area Ratio: 0.152</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 67.0 ng/L</p> <p>Area Ratio: 0.0690</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 66.8 ng/L</p> <p>Area Ratio: 0.117</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

Sample Name	4390179~SPIKE	Injection Vial	12
Sample ID	4390179~SPIKE	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:52:10 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	107000.	1.67	1.00	-
MPFHpA	316000.	1.69	1.00	-
MPFOA	310000.	1.87	1.00	-
MPFOS	152000.	1.96	1.00	-
MPFNA	244000.	2.01	1.00	-
13C6-PFHxA IS	2100000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	2040000	1.10	50.0	62.7	125.0
PFHxS 1	2320000	1.67	50.0	73.2	146.0
PFHpA 1	2670000	1.69	50.0	68.1	136.0
PFOA 1	3050000	1.87	50.0	68.0	136.0
PFOS 1	1500000	1.96	50.0	58.7	117.0
PFNA 1	2170000	2.01	50.0	66.9	134.0
18O2-PFHxS	107000	1.67	100.	63.8	63.8
13C4-PFHpA	316000	1.69	100.	65.2	65.2
13C4-PFOA	310000	1.87	100.	71.3	71.3
13C4-PFOS	152000	1.96	100.	70.5	70.5
13C5-PFNA	244000	2.01	100.	66.3	66.3
13C6-PFHxA	2100000	1.42	100.	106.	106.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

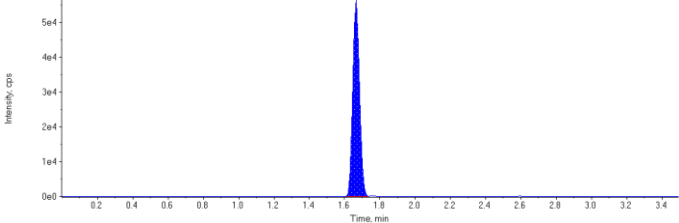
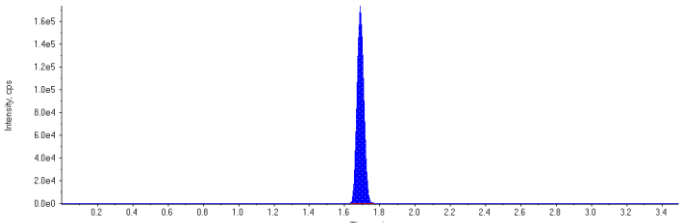
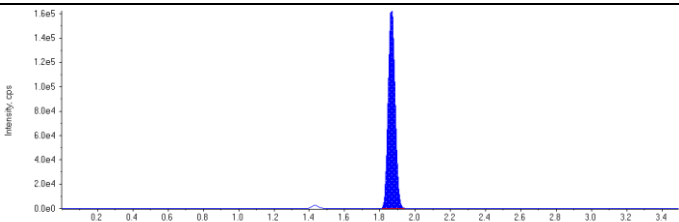
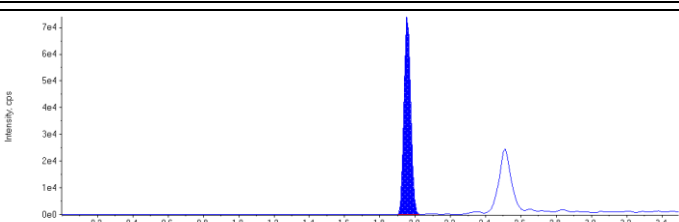
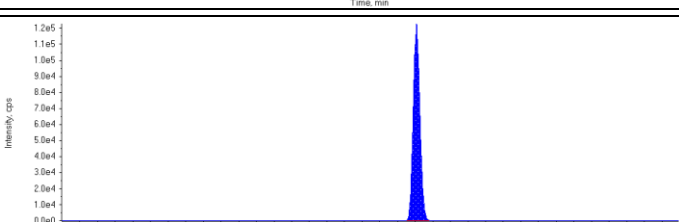
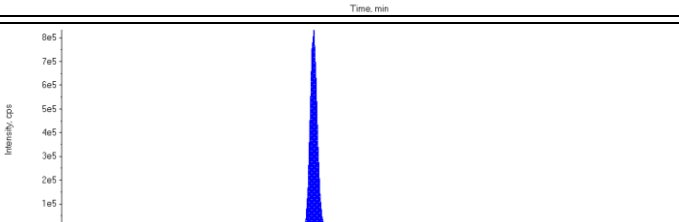
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.10 (1.09) min</p> <p>Calculated Conc: 62.7 ng/L</p> <p>Area Ratio: 19.0</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 73.2 ng/L</p> <p>Area Ratio: 21.7</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 68.1 ng/L</p> <p>Area Ratio: 8.44</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 68.0 ng/L</p> <p>Area Ratio: 9.84</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 58.7 ng/L</p> <p>Area Ratio: 9.87</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 66.9 ng/L</p> <p>Area Ratio: 8.90</p> <p>Sample Type: (Quality Control)</p>	

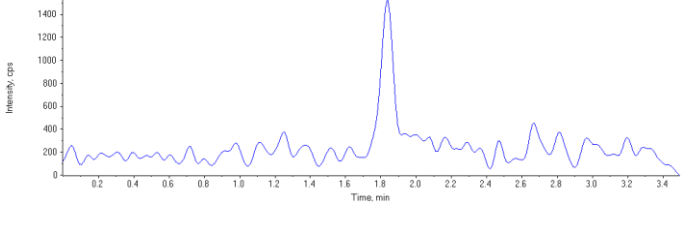
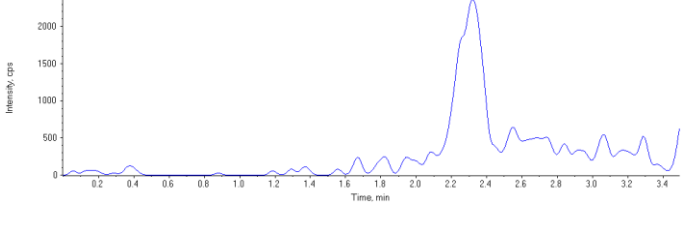
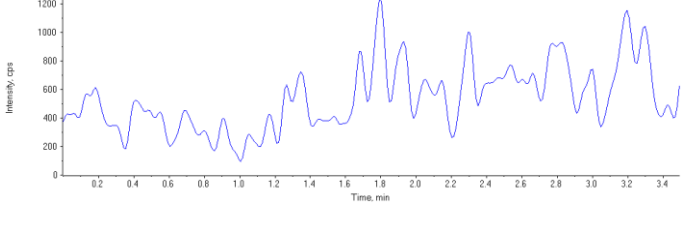
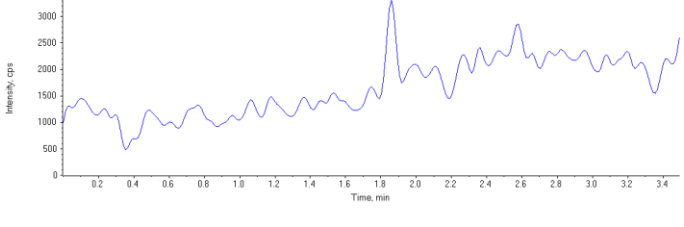
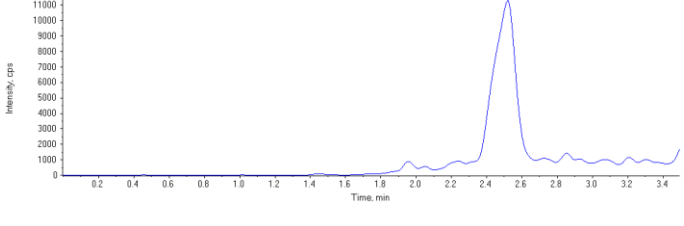
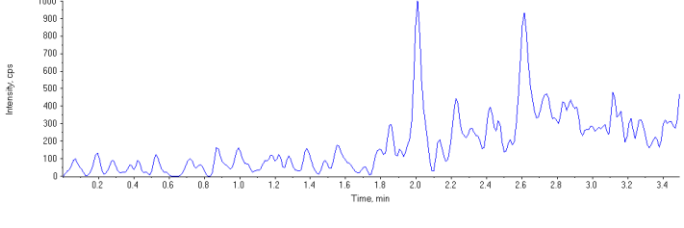
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 63.8 ng/L</p> <p>Area Ratio: 0.0511</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 65.2 ng/L</p> <p>Area Ratio: 0.151</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 71.3 ng/L</p> <p>Area Ratio: 0.148</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 70.5 ng/L</p> <p>Area Ratio: 0.0727</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 66.3 ng/L</p> <p>Area Ratio: 0.116</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 106. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

Sample Name	4394551~BLANK	Injection Vial	2
Sample ID	4394551~BLANK	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 11:41:40 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	149000.	1.66	1.00	-
MPFHpA	459000.	1.69	1.00	-
MPFOA	445000.	1.87	1.00	-
MPFOS	196000.	1.96	1.00	-
MPFNA	322000.	2.01	1.00	-
13C6-PFHxA IS	2330000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	0	0.00	0.00	N/A	0.0
PFHxS 1	0	0.00	0.00	N/A	0.0
PFHpA 1	0	0.00	0.00	N/A	0.0
PFOA 1	0	0.00	0.00	N/A	0.0
PFOS 1	0	0.00	0.00	N/A	0.0
PFNA 1	0	0.00	0.00	N/A	0.0
18O2-PFHxS	149000	1.66	100.	98.7	98.7
13C4-PFHpA	459000	1.69	100.	102.	102.0
13C4-PFOA	445000	1.87	100.	114.	114.0
13C4-PFOS	196000	1.96	100.	107.	107.0
13C5-PFNA	322000	2.01	100.	103.	103.0
13C6-PFHxA	2330000	1.42	100.	94.2	94.2

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

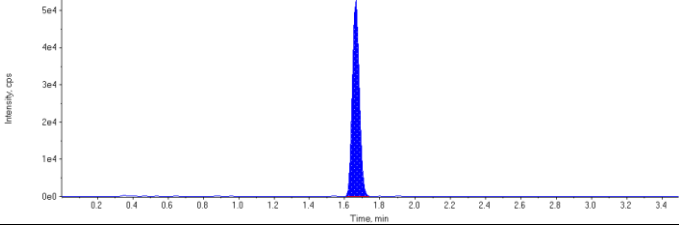
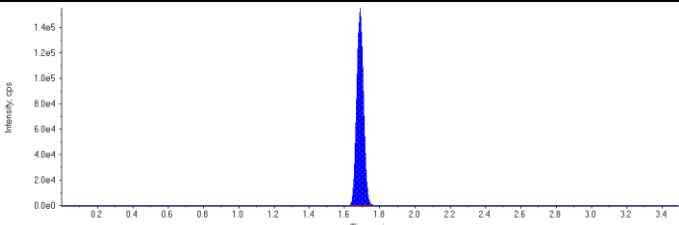
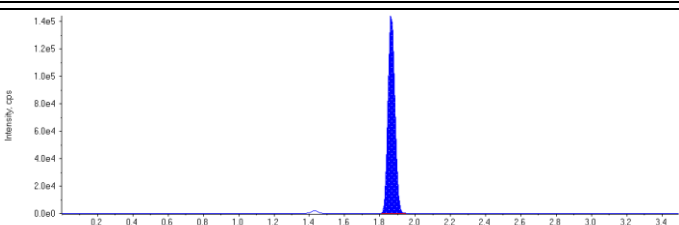
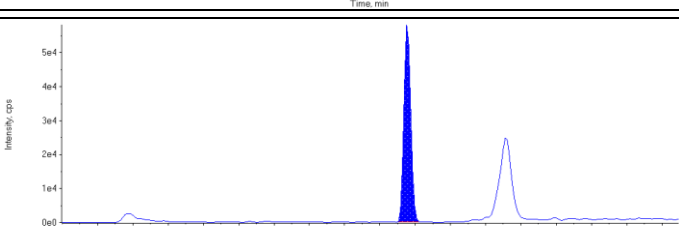
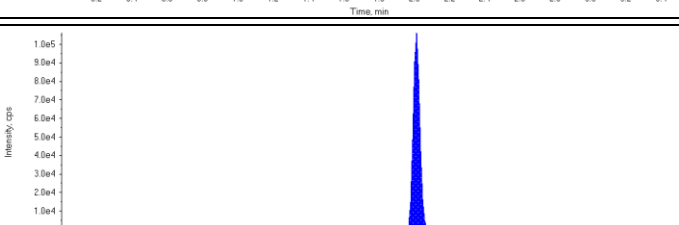
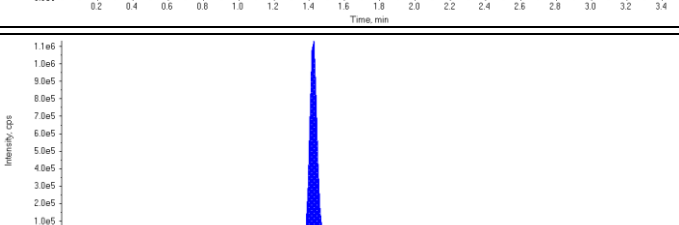
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.15) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.68) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 0.00 (1.92) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 0.00 (1.97) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 0.00 (2.02) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

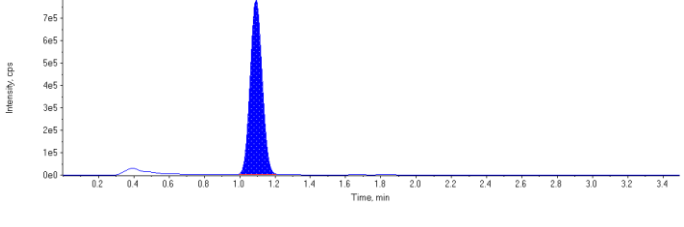
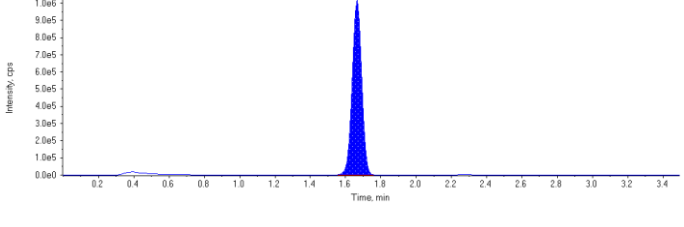
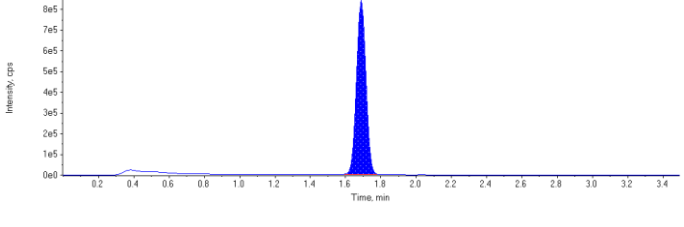
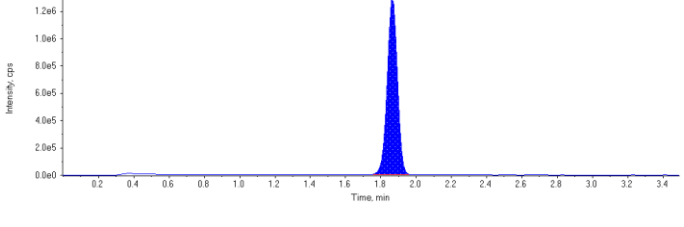
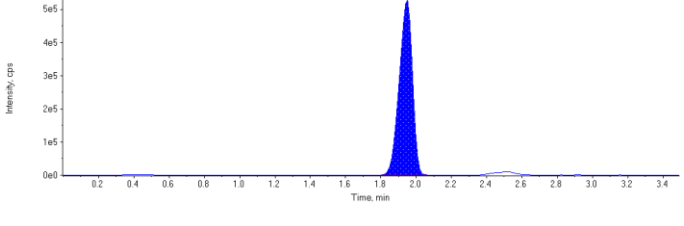
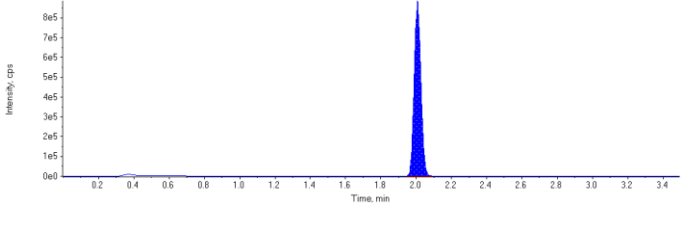
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 98.7 ng/L</p> <p>Area Ratio: 0.0637</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 102. ng/L</p> <p>Area Ratio: 0.197</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 114. ng/L</p> <p>Area Ratio: 0.191</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 107. ng/L</p> <p>Area Ratio: 0.0840</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.138</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 94.2 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

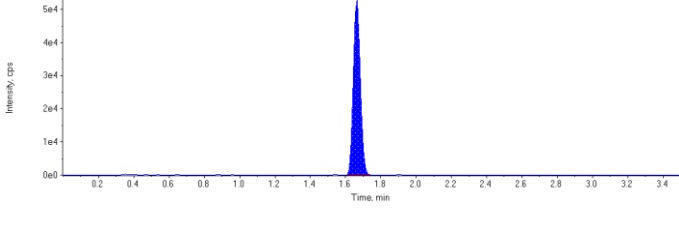
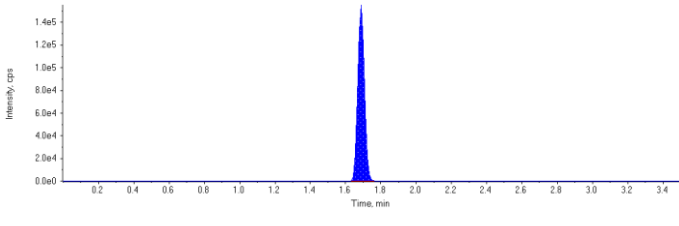
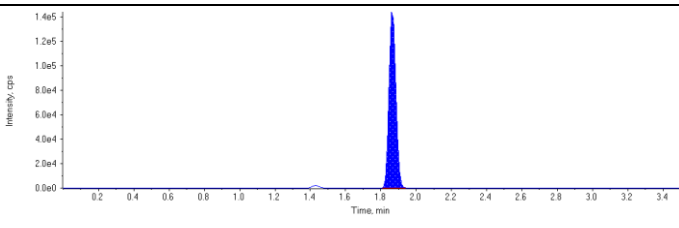
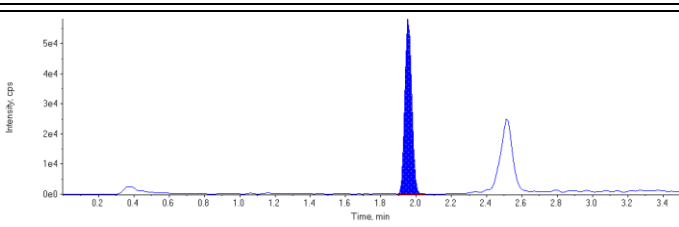
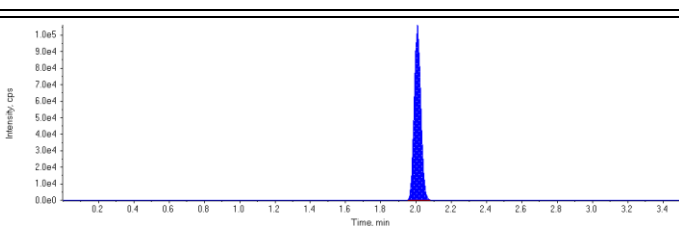
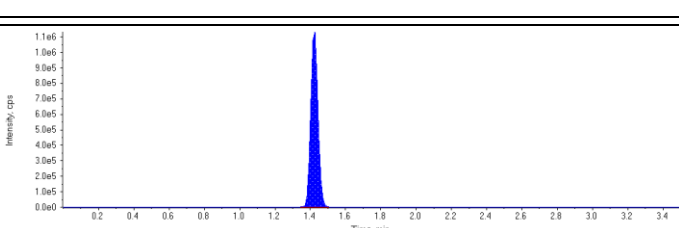
Sample Name	4394551~MTRX SPK	Injection Vial	10
Sample ID	4394551~MTRX SPK	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 11:46:46 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-injected
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	146000.	1.66	1.00	-
MPFHpA	408000.	1.69	1.00	-
MPFOA	393000.	1.86	1.00	-
MPFOS	157000.	1.95	1.00	-
MPFNA	278000.	2.01	1.00	-
13C6-PFHxA IS	3260000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	3660000	1.09	50.0	89.4	179.0
PFHxS 1	3770000	1.66	50.0	89.2	178.0
PFHpA 1	3110000	1.69	50.0	63.8	128.0
PFOA 1	5160000	1.87	50.0	90.1	180.0
PFOS 1	2730000	1.95	50.0	112.	223.0
PFNA 1	2320000	2.01	50.0	63.1	126.0
18O2-PFHxS	146000	1.66	100.	69.2	69.2
13C4-PFHpA	408000	1.69	100.	65.3	65.3
13C4-PFOA	393000	1.86	100.	72.0	72.0
13C4-PFOS	157000	1.95	100.	61.2	61.2
13C5-PFNA	278000	2.01	100.	63.8	63.8
13C6-PFHxA	3260000	1.42	100.	132.	132.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

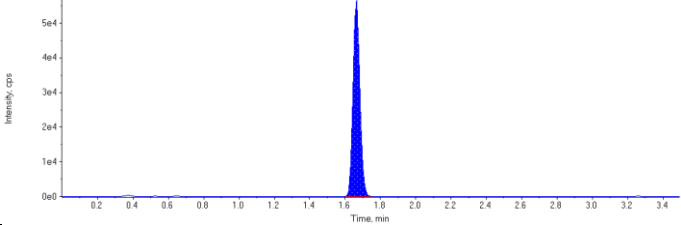
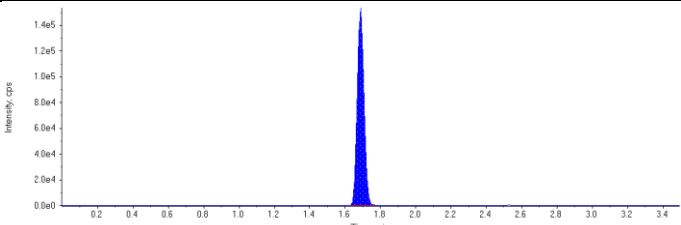
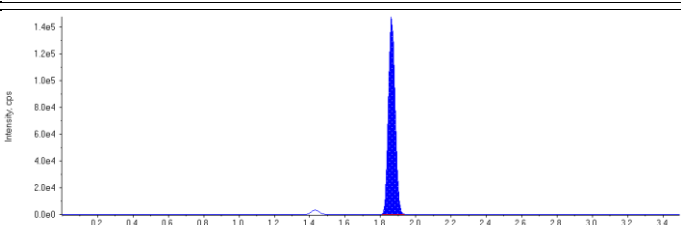
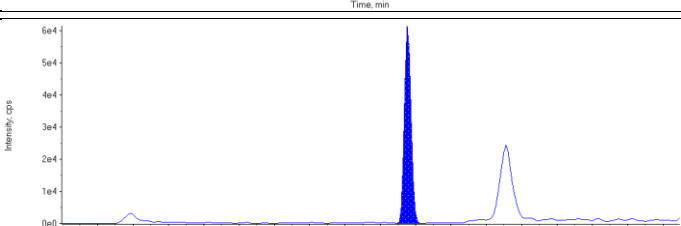
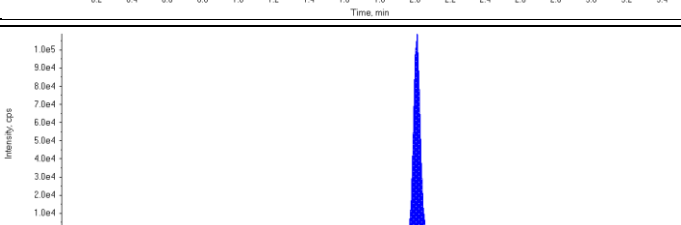
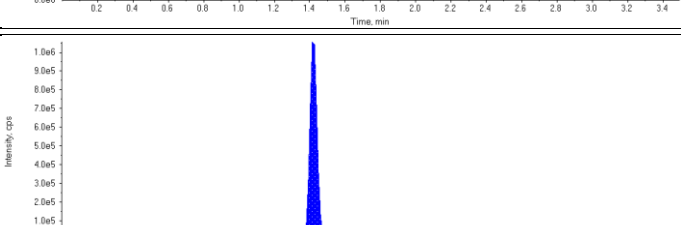
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 89.4 ng/L</p> <p>Area Ratio: 25.1</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 89.2 ng/L</p> <p>Area Ratio: 25.9</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 63.8 ng/L</p> <p>Area Ratio: 7.62</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 90.1 ng/L</p> <p>Area Ratio: 13.1</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 112. ng/L</p> <p>Area Ratio: 17.4</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 63.1 ng/L</p> <p>Area Ratio: 8.35</p> <p>Sample Type: (Quality Control)</p>	

<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 69.2 ng/L</p> <p>Area Ratio: 0.0447</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 65.3 ng/L</p> <p>Area Ratio: 0.125</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 72.0 ng/L</p> <p>Area Ratio: 0.120</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 61.2 ng/L</p> <p>Area Ratio: 0.0482</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 63.8 ng/L</p> <p>Area Ratio: 0.0854</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 132. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

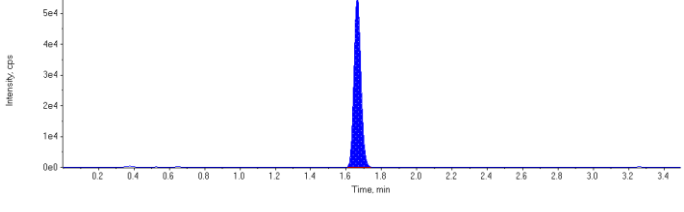
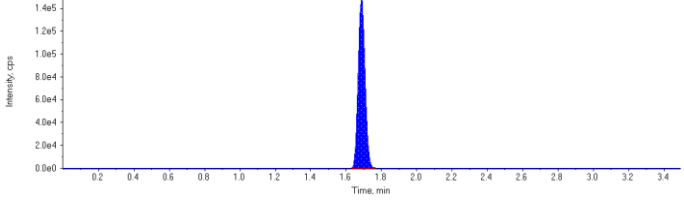
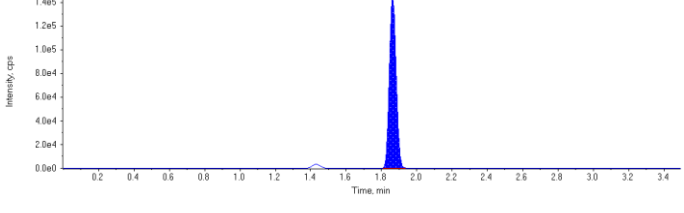
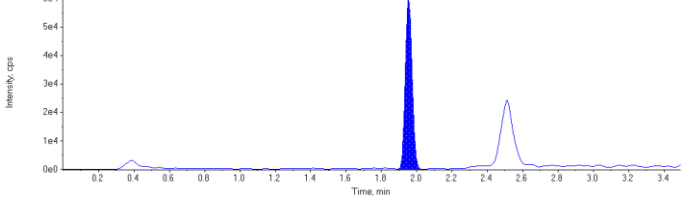
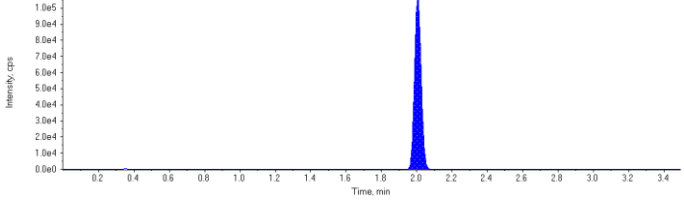
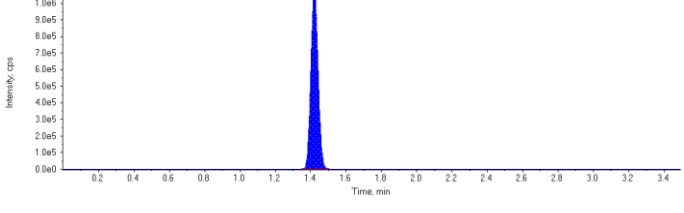
Sample Name	4394551~MTRX SPK	Injection Vial	10
Sample ID	4394551~MTRX SPK	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 1:23:41 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Reported
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	153000.	1.66	1.00	-
MPFHpA	403000.	1.69	1.00	-
MPFOA	387000.	1.86	1.00	-
MPFOS	160000.	1.95	1.00	-
MPFNA	281000.	2.01	1.00	-
13C6-PFHxA IS	3070000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	3400000	1.09	50.0	79.4	159.0
PFHxS 1	3670000	1.66	50.0	82.7	165.0
PFHpA 1	3110000	1.69	50.0	64.7	129.0
PFOA 1	4980000	1.86	50.0	88.3	177.0
PFOS 1	2860000	1.95	50.0	115.	230.0
PFNA 1	2400000	2.01	50.0	64.5	129.0
18O2-PFHxS	153000	1.66	100.	77.1	77.1
13C4-PFHpA	403000	1.69	100.	68.5	68.5
13C4-PFOA	387000	1.86	100.	75.4	75.4
13C4-PFOS	160000	1.95	100.	66.1	66.1
13C5-PFNA	281000	2.01	100.	68.5	68.5
13C6-PFHxA	3070000	1.42	100.	124.	124.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

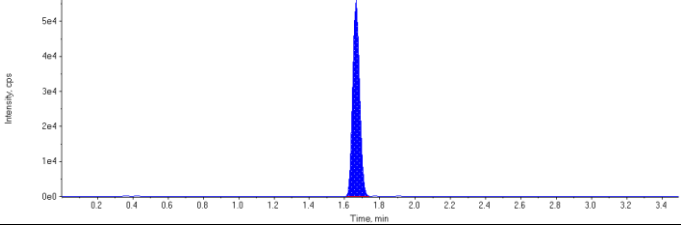
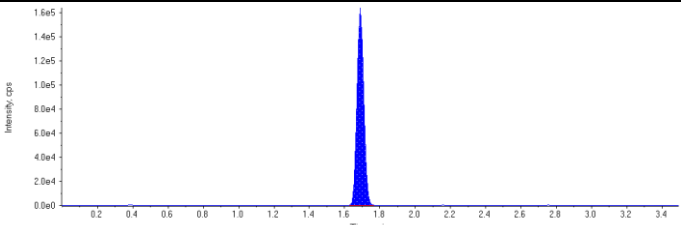
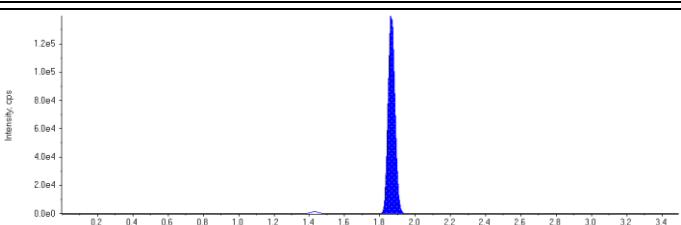
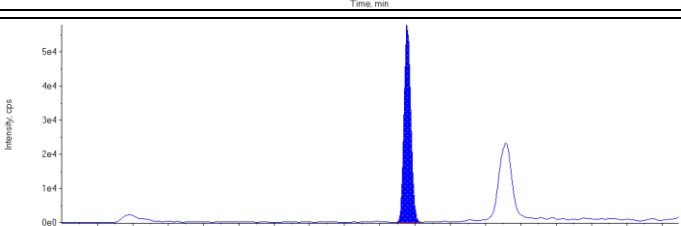
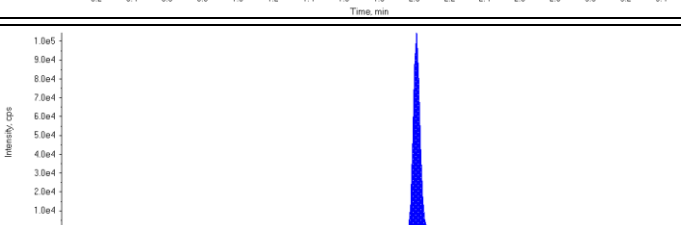
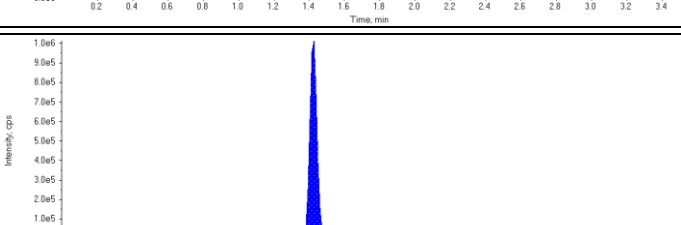
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 79.4 ng/L</p> <p>Area Ratio: 22.3</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 82.7 ng/L</p> <p>Area Ratio: 24.0</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 64.7 ng/L</p> <p>Area Ratio: 7.73</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.92) min</p> <p>Calculated Conc: 88.3 ng/L</p> <p>Area Ratio: 12.9</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 115. ng/L</p> <p>Area Ratio: 17.9</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 64.5 ng/L</p> <p>Area Ratio: 8.53</p> <p>Sample Type: (Quality Control)</p>	

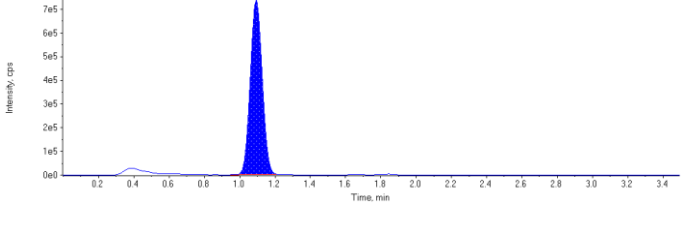
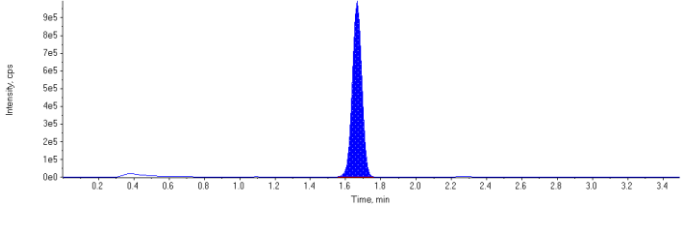
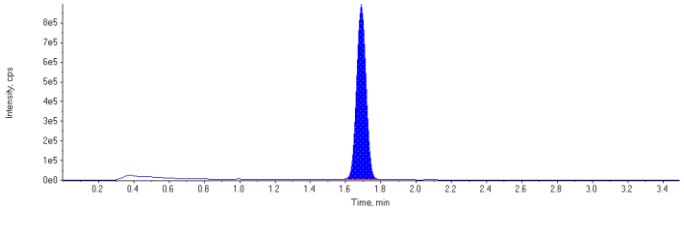
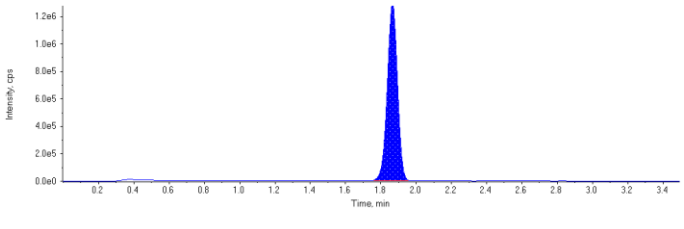
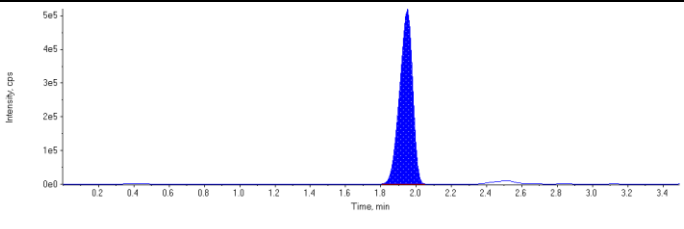
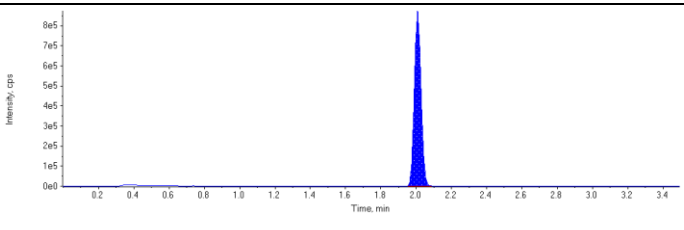
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 77.1 ng/L</p> <p>Area Ratio: 0.0498</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 68.5 ng/L</p> <p>Area Ratio: 0.131</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 75.4 ng/L</p> <p>Area Ratio: 0.126</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 66.1 ng/L</p> <p>Area Ratio: 0.0521</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 68.5 ng/L</p> <p>Area Ratio: 0.0917</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 124. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

Sample Name	4394551~MTRX SPK:D1	Injection Vial	11
Sample ID	4394551~MTRX SPK:D1	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 11:51:52 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-injected
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	153000.	1.66	1.00	-
MPFHpA	433000.	1.69	1.00	-
MPFOA	380000.	1.87	1.00	-
MPFOS	153000.	1.96	1.00	-
MPFNA	273000.	2.01	1.00	-
13C6-PFHxA IS	2900000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	3460000	1.09	50.0	80.8	162.0
PFHxS 1	3680000	1.67	50.0	82.9	166.0
PFHpA 1	3260000	1.69	50.0	62.9	126.0
PFOA 1	5180000	1.87	50.0	93.2	186.0
PFOS 1	2640000	1.95	50.0	111.	222.0
PFNA 1	2290000	2.01	50.0	63.3	127.0
18O2-PFHxS	153000	1.66	100.	81.6	81.6
13C4-PFHpA	433000	1.69	100.	77.9	77.9
13C4-PFOA	380000	1.87	100.	78.5	78.5
13C4-PFOS	153000	1.96	100.	66.8	66.8
13C5-PFNA	273000	2.01	100.	70.4	70.4
13C6-PFHxA	2900000	1.42	100.	117.	117.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

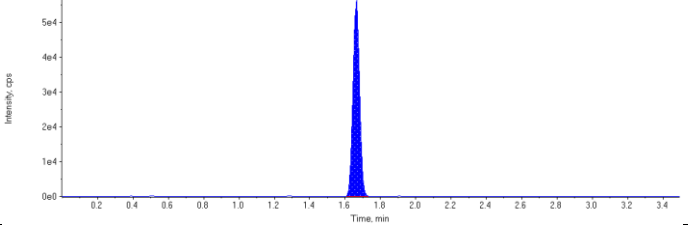
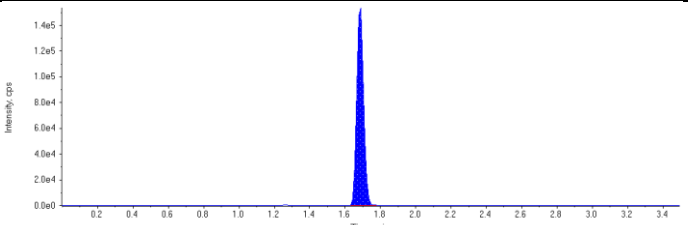
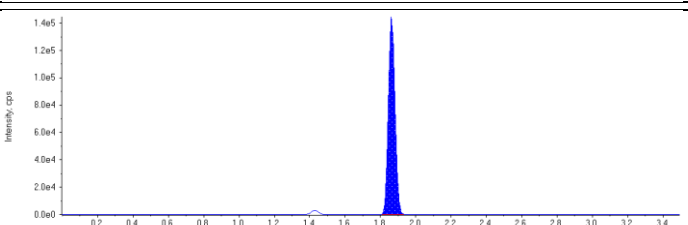
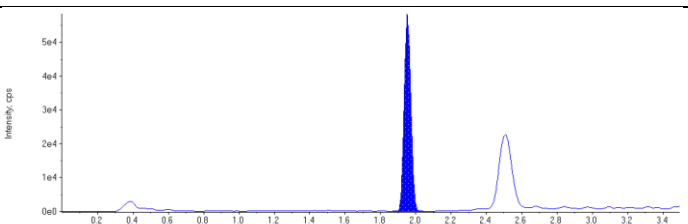
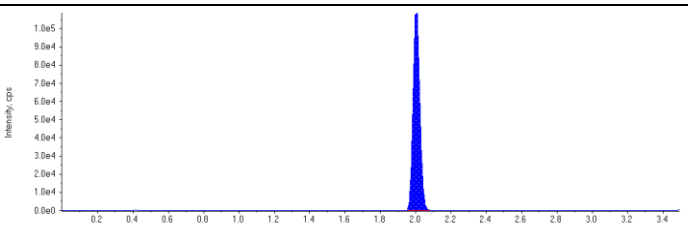
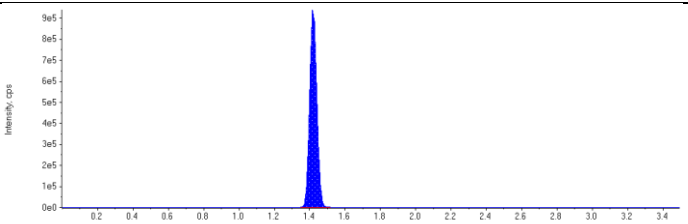
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 80.8 ng/L</p> <p>Area Ratio: 22.7</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 82.9 ng/L</p> <p>Area Ratio: 24.1</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 62.9 ng/L</p> <p>Area Ratio: 7.52</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 93.2 ng/L</p> <p>Area Ratio: 13.6</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 111. ng/L</p> <p>Area Ratio: 17.3</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 63.3 ng/L</p> <p>Area Ratio: 8.38</p> <p>Sample Type: (Quality Control)</p>	

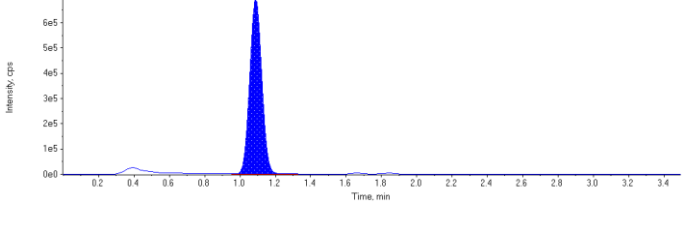
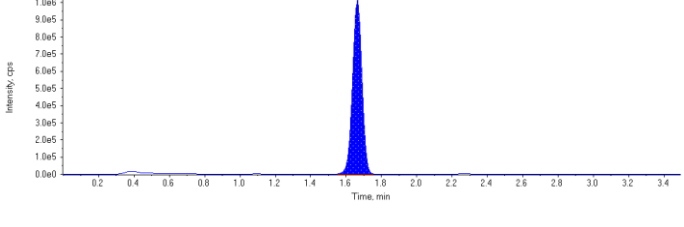
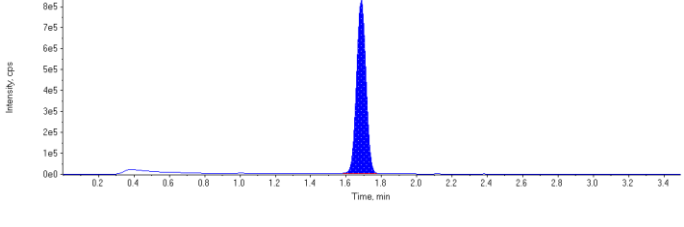
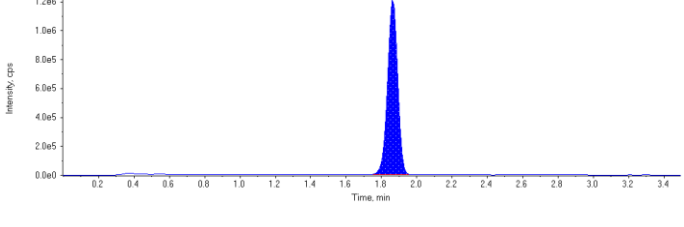
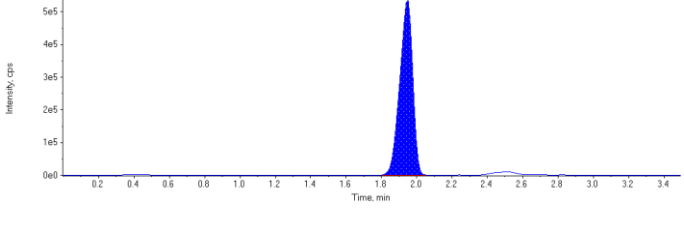
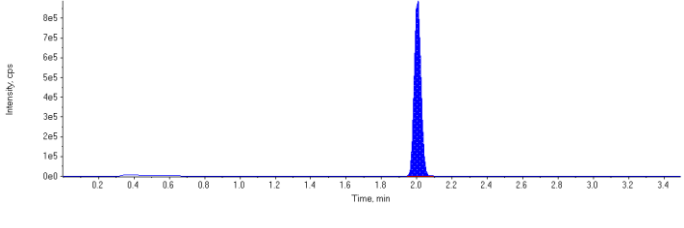
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 81.6 ng/L</p> <p>Area Ratio: 0.0527</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 77.9 ng/L</p> <p>Area Ratio: 0.149</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 78.5 ng/L</p> <p>Area Ratio: 0.131</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 66.8 ng/L</p> <p>Area Ratio: 0.0526</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 70.4 ng/L</p> <p>Area Ratio: 0.0943</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 117. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

Sample Name	4394551~MTRX SPK:D1	Injection Vial	11
Sample ID	4394551~MTRX SPK:D1	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 1:28:47 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Reported
Project	Enviro/PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	146000.	1.66	1.00	-
MPFHpA	418000.	1.68	1.00	-
MPFOA	374000.	1.86	1.00	-
MPFOS	152000.	1.95	1.00	-
MPFNA	295000.	2.00	1.00	-
13C6-PFHxA IS	2700000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	3280000	1.09	50.0	80.1	160.0
PFHxS 1	3750000	1.66	50.0	88.4	177.0
PFHpA 1	3060000	1.69	50.0	61.3	123.0
PFOA 1	4830000	1.86	50.0	88.4	177.0
PFOS 1	2720000	1.95	50.0	115.	231.0
PFNA 1	2370000	2.00	50.0	60.6	121.0
18O2-PFHxS	146000	1.66	100.	83.7	83.7
13C4-PFHpA	418000	1.68	100.	80.6	80.6
13C4-PFOA	374000	1.86	100.	82.9	82.9
13C4-PFOS	152000	1.95	100.	71.3	71.3
13C5-PFNA	295000	2.00	100.	81.6	81.6
13C6-PFHxA	2700000	1.42	100.	109.	109.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.68(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.00(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

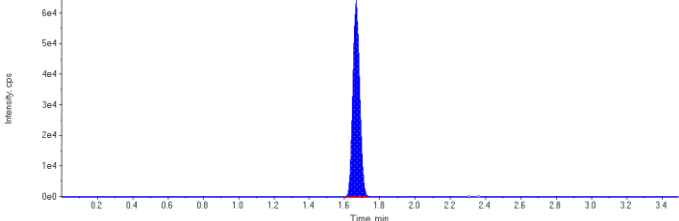
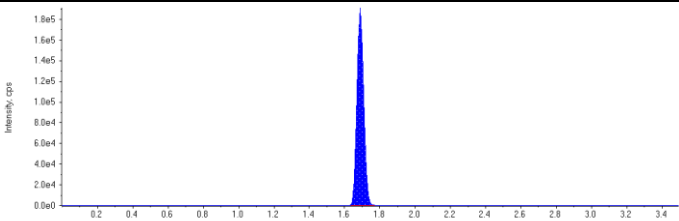
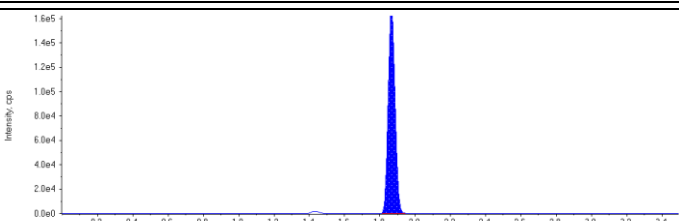
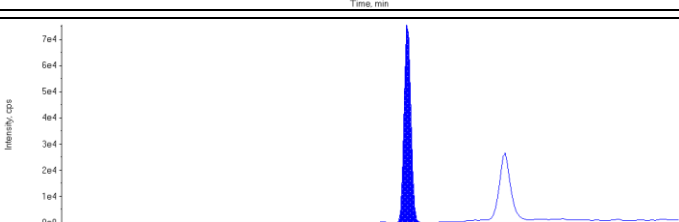
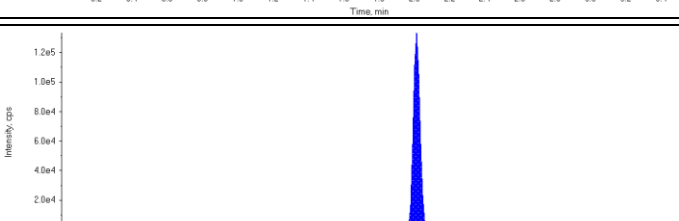
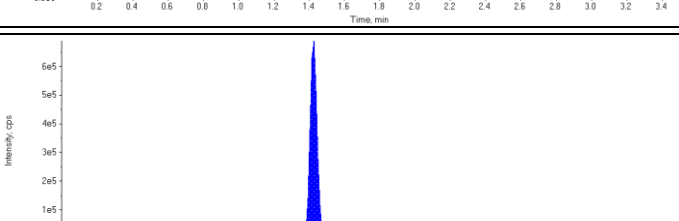
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 80.1 ng/L</p> <p>Area Ratio: 22.5</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 88.4 ng/L</p> <p>Area Ratio: 25.7</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 61.3 ng/L</p> <p>Area Ratio: 7.33</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.92) min</p> <p>Calculated Conc: 88.4 ng/L</p> <p>Area Ratio: 12.9</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 115. ng/L</p> <p>Area Ratio: 18.0</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.00 (2.02) min</p> <p>Calculated Conc: 60.6 ng/L</p> <p>Area Ratio: 8.02</p> <p>Sample Type: (Quality Control)</p>	

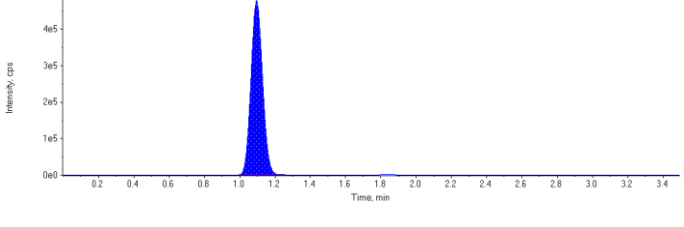
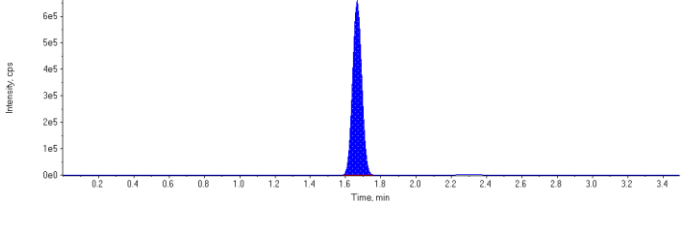
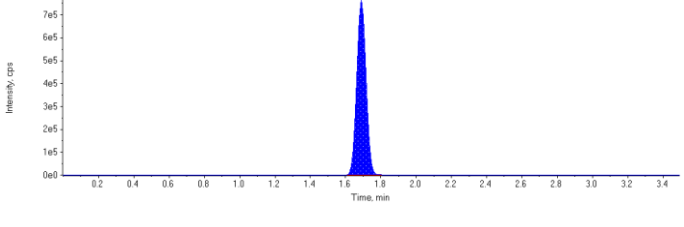
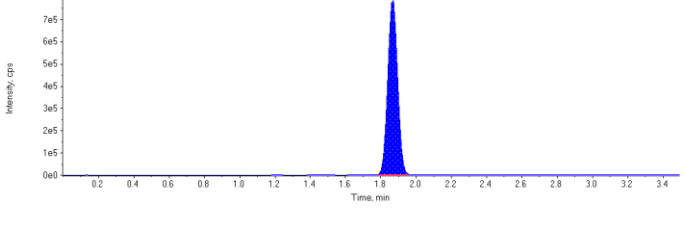
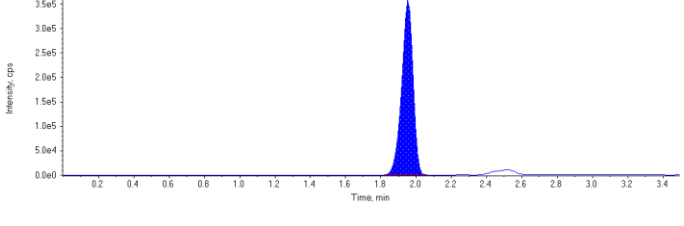
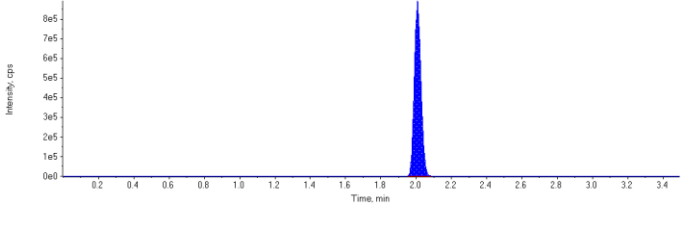
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 83.7 ng/L</p> <p>Area Ratio: 0.0541</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.68 (1.73) min</p> <p>Calculated Conc: 80.6 ng/L</p> <p>Area Ratio: 0.155</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 82.9 ng/L</p> <p>Area Ratio: 0.139</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 71.3 ng/L</p> <p>Area Ratio: 0.0562</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.00 (2.02) min</p> <p>Calculated Conc: 81.6 ng/L</p> <p>Area Ratio: 0.109</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 109. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

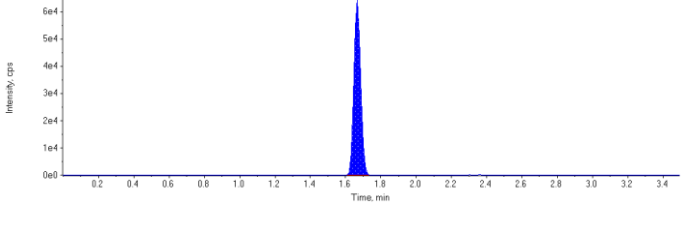
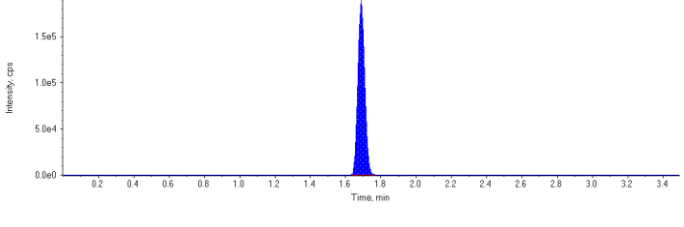
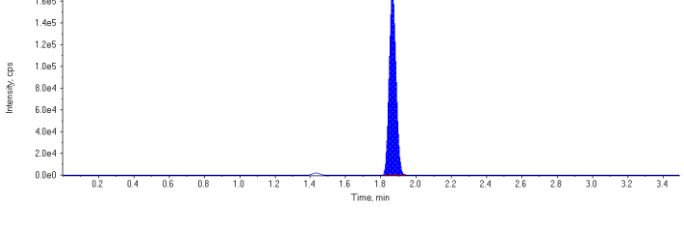
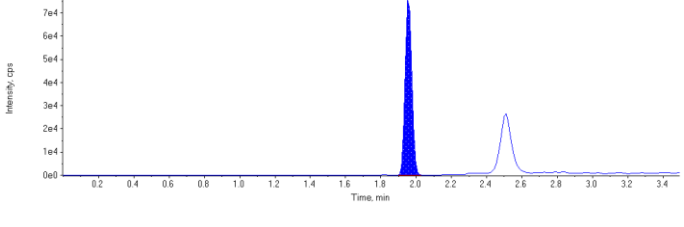
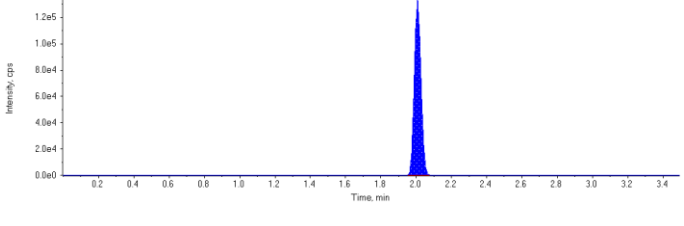
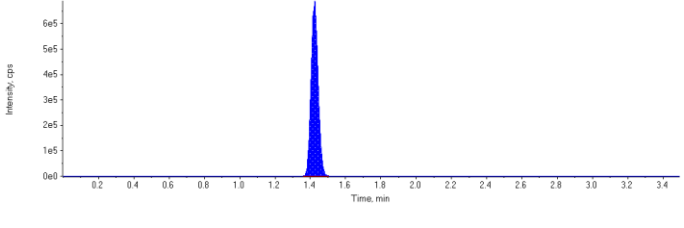
Sample Name	4394551~SPIKE	Injection Vial	12
Sample ID	4394551~SPIKE	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 11:56:58 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Reported
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	171000.	1.67	1.00	-
MPFHpA	506000.	1.69	1.00	-
MPFOA	451000.	1.87	1.00	-
MPFOS	201000.	1.96	1.00	-
MPFNA	350000.	2.01	1.00	-
13C6-PFHxA IS	1930000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	2180000	1.10	50.0	45.5	91.1
PFHxS 1	2380000	1.67	50.0	48.1	96.2
PFHpA 1	2790000	1.69	50.0	46.1	92.3
PFOA 1	3050000	1.87	50.0	46.4	92.8
PFOS 1	1590000	1.95	50.0	50.9	102.0
PFNA 1	2340000	2.01	50.0	50.4	101.0
18O2-PFHxS	171000	1.67	100.	137.	137.0
13C4-PFHpA	506000	1.69	100.	137.	137.0
13C4-PFOA	451000	1.87	100.	140.	140.0
13C4-PFOS	201000	1.96	100.	132.	132.0
13C5-PFNA	350000	2.01	100.	136.	136.0
13C6-PFHxA	1930000	1.42	100.	77.8	77.8

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

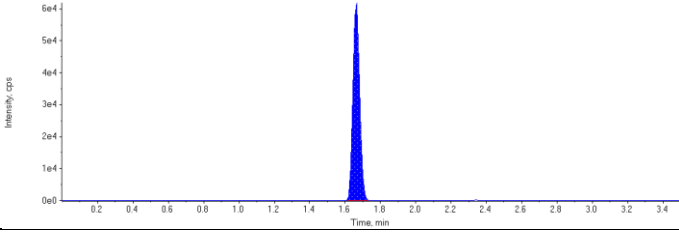
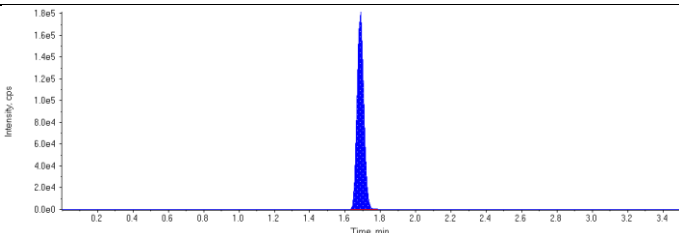
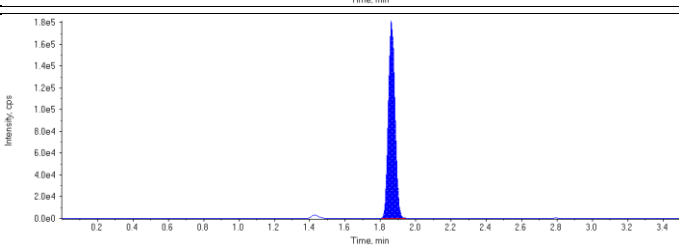
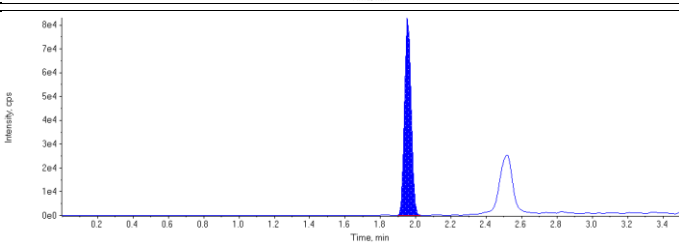
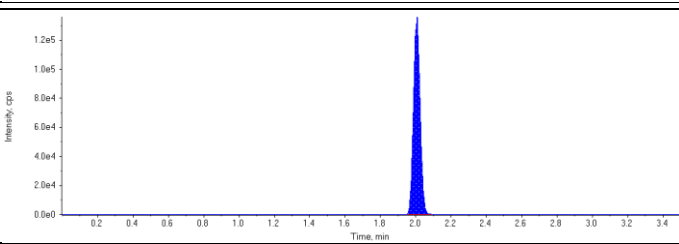
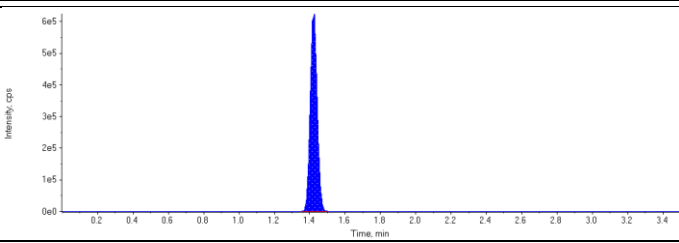
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.10 (1.15) min</p> <p>Calculated Conc: 45.5 ng/L</p> <p>Area Ratio: 12.7</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 48.1 ng/L</p> <p>Area Ratio: 13.9</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 46.1 ng/L</p> <p>Area Ratio: 5.51</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 46.4 ng/L</p> <p>Area Ratio: 6.77</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 50.9 ng/L</p> <p>Area Ratio: 7.89</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 50.4 ng/L</p> <p>Area Ratio: 6.67</p> <p>Sample Type: (Quality Control)</p>	

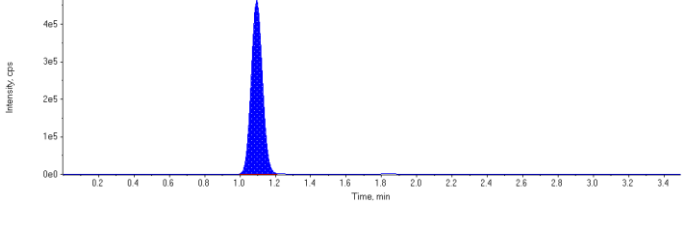
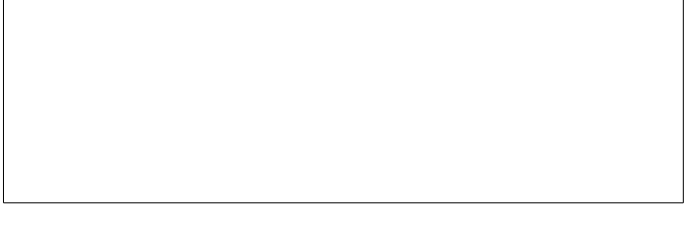
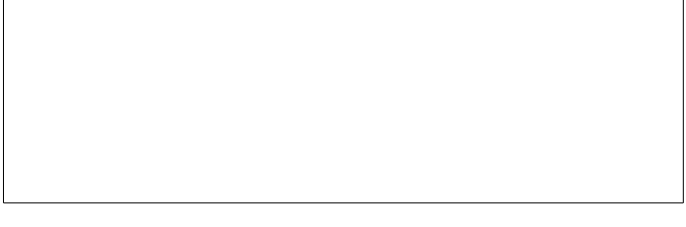



<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 137. ng/L</p> <p>Area Ratio: 0.0887</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 137. ng/L</p> <p>Area Ratio: 0.262</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 140. ng/L</p> <p>Area Ratio: 0.234</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 132. ng/L</p> <p>Area Ratio: 0.104</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 136. ng/L</p> <p>Area Ratio: 0.182</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 77.8 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

Sample Name	4394551~SPIKE	Injection Vial	12
Sample ID	4394551~SPIKE	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 1:33:53 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-injection, results not reported
Project	Enviro/PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	164000.	1.66	1.00	-
MPFHpA	477000.	1.69	1.00	-
MPFOA	465000.	1.86	1.00	-
MPFOS	215000.	1.95	1.00	-
MPFNA	355000.	2.01	1.00	-
13C6-PFHxA IS	1740000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	2050000	1.09	50.0	44.8	89.6
PFHxS 1	2340000	1.66	50.0	49.4	98.8
PFHpA 1	2660000	1.69	50.0	46.7	93.5
PFOA 1	3110000	1.86	50.0	45.9	91.8
PFOS 1	1640000	1.95	50.0	49.1	98.2
PFNA 1	2220000	2.01	50.0	47.2	94.4
18O2-PFHxS	164000	1.66	100.	145.	145.0
13C4-PFHpA	477000	1.69	100.	143.	143.0
13C4-PFOA	465000	1.86	100.	160.	160.0
13C4-PFOS	215000	1.95	100.	157.	157.0
13C5-PFNA	355000	2.01	100.	152.	152.0
13C6-PFHxA	1740000	1.42	100.	70.3	70.3

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 44.8 ng/L</p> <p>Area Ratio: 12.5</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 49.4 ng/L</p> <p>Area Ratio: 14.3</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 46.7 ng/L</p> <p>Area Ratio: 5.58</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.92) min</p> <p>Calculated Conc: 45.9 ng/L</p> <p>Area Ratio: 6.69</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 49.1 ng/L</p> <p>Area Ratio: 7.61</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 47.2 ng/L</p> <p>Area Ratio: 6.25</p> <p>Sample Type: (Quality Control)</p>	

<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 145. ng/L</p> <p>Area Ratio: 0.0939</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 143. ng/L</p> <p>Area Ratio: 0.274</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 160. ng/L</p> <p>Area Ratio: 0.267</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 157. ng/L</p> <p>Area Ratio: 0.124</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 152. ng/L</p> <p>Area Ratio: 0.204</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 70.3 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

DoD Projects - Internal Data Validation Checklist					
Run date: 2016/02/23					
Worksheet # (s): 4390179					
Analysis: PFO SLOW - W			1st 100% review		*2nd 100% review
Primary review by the analyst - 1st 100 % analysis review			yes	no	n/a
1	Sample analyses meet hold time criteria		✓		✓
2	Analysis set-up meets method criteria		✓		✓
3	Tuning and correct calibration used - criteria meets method criteria		✓		✓
4	SQC/Control Charts updated, analysis in statistical/method control			✓	✓
5	Internal area counts checked (if applicable)		✓		✓
6	LCS, SRM are within acceptance criteria			✓	✓
7	Surrogate Recovery(s) is within acceptance criteria		✓		✓
8	Method Blank meets acceptance criteria		✓		✓
9	Matrix Spike recovery(s) meets acceptance criteria			✓	✓
10	Duplicate precision meets acceptance criteria		✓		✓
11	QC is documented on the run logs		✓		✓
12	Runs checked for carryover				✓
13	Prep log / worksheet(s) are present, signed / dated by a prep / instrument analysts		✓		✓
14	Initial weights, splits, imprinter volumes (where applicable) are documented		✓		✓
15	Standards and reagents traceable to Certificates of Analysis		✓		✓
16	Samples above calibration range diluted and reanalyzed			✓	✓
17	Dilution factors (where justified) have been checked for correctness and entered		✓		✓
18	Analytical observations/anomalies documented in LIMS			✓	✓
19	Random calculation checked and in correct units		✓		✓
20	If corrective actions were applied they are documented, initialed & dated			✓	✓
21	Manual integration - before & after data with a reason included, initialed & dated			✓	✓
22	Transferred data is validated in LIMS for correctness		✓		✓
23	Data package assembled (where required)		✓		✓
Reviewed by: <i>MA</i>		Date: 2016/02/23			
Comments:					
Secondary Supervisor/Qualified Data Review Staff - 2nd 100% verification review					
1	Repeats documented and referenced		✓		
2	Method and sample deviations noted, anomalies described (if applicable)		✓		
3	Data and QC validated in LIMS		✓		
4	Random calculation checked			✓	
5	Benchsheet (s) signed and dated		✓		
6	Data Package (if required) checked for completeness		✓		
Reviewed by: <i>MA</i>		Date: 2016/03/01			
Comments: All samples were sent for re-work due to QC criteria not being met. The samples will be re-extracted and re-analyzed.					

*Note: 2nd 100% verification review documented by secondary qualified data review
 Primary and Secondary Internal Data Review Check must be performed by a different person

Worksheet Data Validation Checklist - Extractable Organics				
Worksheet # 4390179		Testcode: PFOSLOW-W		
Sample Preparation		yes	no	n/a
1	Samples extracted within hold time	/		
2	Client sample ID verified against Lab ID (waters & oils)	/		
3	Parameter list and Client comments reviewed, (Spiking solutions matched to parameter list)	/		
4	Height of sediment or if sample was decanted, recorded on worksheet	/		
5	Method required QC processed with samples, maximum batch size = 20 client samples.	/		
6	Sample, duplicate, matrix spike appear similar, initial sample as well as final extract	/		
7	Sample weight or initial volume and extract final volume, aliquot factor clearly recorded.	/		
8	If performed any additional dilution clearly recorded			/
9	Matrix spike / Duplicate performed on IOL samples if present			/
10	Spiking solutions valid (haven't expired), ID and volume used clearly identified on worksheet	/		
11	Spiking process witnessed and signed off	/		
12	Extraction type recorded (N3A2B = neutral, 3 x acidic, 2 x basic)			/
13	Sample prep deviations documented within CompliantPro as a Policy Deviation			/
14	Job Remarks reviewed on 2nd page of worksheet.	/		
15	Worksheet and reagent tracking record completed and authorized.	/		
Reviewed by: GSZ		Date: 2016/02/22		
Comments:				
Worksheet Approval		yes	no	n/a
1	Verified the position of the vials in autosampler against sequence list; signed off sequence list	/		
2	Calibration and CCV standards valid (haven't expired)	/		
3	Initial calibration curve and DFTPP tune (if applicable) acceptable	/		
4	Continuing and Final CCV and DFTPP tune (if applicable) acceptable	/		
5	System performance check acceptable (if applicable)	/		
6	Internal standard responses acceptable			/
7	Method blank meets acceptance criteria	/		
8	Lab Control Samples recoveries meets acceptance criteria		/	
9	Duplicate RPD meets acceptance criteria	/	/	
10	Matrix spike recoveries meets acceptance criteria		/	
11	Surrogate recoveries meets acceptance criteria		/	/
12	Appropriate control charts updated			/
13	Samples above calibration range diluted and reanalyzed			/
14	Dilutions clearly documented on tracking record, inst file and verified during data upload			/
15	Samples following high level samples checked for carryover.			/
16	Mass spectra ion ratios acceptable for positive results, hardcopy in file.			/
17	Analytical observations / anomalies documented			/
18	DQW comments entered in LIMS, hardcopy in file			/
19	Sample Prep section (above) reviewed and verified.	/		
20	WS Approval performed in LIMS	/		
Reviewed by: SM		Date: 2016/03/01		
Comments:				
Worksheet Validation		yes	no	n/a
1	Calibration, QC and sample results reviewed and determined acceptable		/	
2	Manual integrations verified			/
3	Random calculation checked			/
4	Data and QC validated in LIMS	/		
5	Comments reviewed for appropriateness	/		
6	Reworks / relogs documented in file	/		
7	Worksheet signed and dated,	/		
8	Worksheet approved and validated within LIMS	/		
Reviewed by: SM		Date: 2016/03/01		
Comments: All samples sent for re-work due to QC criteria not being met. The samples will be re-extracted and re-analyzed.				
SM 2016/05/01				



RUSH

Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Monday, February 22, 2016

Assigned to : Geoffrey Sanchez

Test Code : PFOSLOW-W

Instrument Id:

Test Description : Low level PFOS and PFOA in water by LC-MS/MS

Sediment
(cm) ml ml

Job Number	Sample Number	D	Sample ID	F	% Moisture	Wt or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date
	MTRX SPK	0	PFOSL BVX757-01		0	125	0.3	IX					2016/02/22
	MTRX SPK	1	PFOSL BVX757-01		0	125	0.3	IX					2016/02/22
	SPIKE		PFOSL		0	125	0.3	IX					2016/02/22
	BLANK				0	125	0.3	IX					2016/02/22
B630790*	*BVX757-01R		OF-FB62-0216		0	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B630790*	*BVX758-01R		OF-RW62-0216		0	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B630790*	*BVX759-01R		OF-FB63-0216		0	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B630790*	*BVX760-01R		OF-RW63-0216		0	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B630790*	*BVX761-01R		OF-FB59-0216		0	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B630790*	*BVX762-01R		OF-RW59-0216		0	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B630790*	*BVX763-01R		OF-FB50-0216		0	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B630790*	*BVX764-01R		OF-RW50-0216		<0.1	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B630790*	*BVX765-01R		OF-FB34-0216		0	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B630790*	*BVX766-01R		OF-RW34-0216		<0.1	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B630790*	*BVX767-01R		OF-FB38-0216		0	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B630790*	*BVX768-01R		OF-RW38-0216		0	125	0.3	IX	2	2016/02/23	2016/02/23 17:00		2016/02/22
B632546	*BWH243-01R		OF-FB02-0216		0	125	0.3	IX	2	2016/02/26	2016/03/03 18:00		2016/02/22
B632546	*BWH244-01R		OF-RW02-0216		0	125	0.3	IX	2	2016/02/26	2016/03/03 18:00		2016/02/22
B632546	*BWH245-01R		OF-FB15-0216		0	125	0.3	IX	2	2016/02/26	2016/03/03 18:00		2016/02/22
B632546	*BWH246-01R		OF-RW15-0216		<0.1	125	0.3	IX	2	2016/02/26	2016/03/03 18:00		2016/02/22
B632546	*BWH247-01R		OF-FB18-0216		0	125	0.3	IX	2	2016/03/01	2016/03/03 18:00		2016/02/22
B632546	*BWH248-01R		OF-RW18-0216		0	125	0.3	IX	2	2016/03/01	2016/03/03 18:00		2016/02/22
B633696*	*BWN123-01R		4957 RT 67		<0.1	125	0.3	IX	2	2016/03/01	2016/02/23 23:00		2016/02/22
B633696*	*BWN124-01R		416 BOVIE HILL R*		<0.1	125	0.3	IX	2	2016/03/01	2016/02/23 23:00		2016/02/22
<i>652, 2016/02/22</i>													

Remarks:

Samples extracted by: Geoffrey Sanchez, 652 2016/02/22

Instrumentation performed by: JS

Date: 2016/02/23

Calculations performed by: JS

Date: 2016/03/01

Validated by: AM

Date: 2016/03/01

Low level PFOS and PFOA in water - Water
ng/L

Parameter Name	Units	MTRX SPK	MTRX SPK Dup1	SPIKE	BLANK	DL	B630790 BVX757
Perfluorobutanoic acid	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
Perfluorobutane Sulfonate (PFBS)	ng/L	!! 139.200	!! 132.800	125.40000	0	2	0
Perfluorodecane Sulfonate	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
Perfluoroheptanoic Acid (PFHpA)	ng/L	!! 147.200	!! 135.200	!! 136.200	0.11800	2	0.13600
Perfluoroheptane sulfonate	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
Perfluorohexanoic Acid (PFHxA)	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
Perfluorohexane Sulfonate (PFHxS)	ng/L	!! 143.200	!! 138.000	!! 146.400	0	2	0
Perfluorononanoic Acid (PFNA)	ng/L	!! 167.800	!! 147.400	!! 133.800	0	2	0
Perfluoropentanoic Acid (PFPeA)	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
Perfluorotetradecanoic Acid	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
Perfluorotridecanoic Acid	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
Perfluoroundecanoic Acid (PFUnA)	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
Perfluorodecanoic Acid (PFDA)	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
Perfluorododecanoic Acid (PFDoA)	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	!! 160.600	!! 136.200	!! 136.000	0	2	0
Perfluorooctane Sulfonate (PFOS)	ng/L	!! 153.200	!! 134.000	117.40000	0.37500	2	0.43100
13C2-perfluorotetradecanoic acid	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
13C4-Perfluorobutanoic acid	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
13C5-Perfluorononanoic acid	ng/L	55.4	66.8	66.3	86.3		50.2
13C2-Perfluorodecanoic acid	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
13C2-Perfluorododecanoic acid	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
13C2-Perfluorohexanoic acid	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
13C2-Perfluoroundecanoic acid	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
13C4-Perfluoroheptanoic acid	ng/L	61.4	70.0	65.2	83.8		58.0
13C4-Perfluorooctanoic acid	ng/L	60.5	73.5	71.3	90.1		59.4
13C4-Perfluorooctanesulfonate	ng/L	54.6	67.0	70.5	83.8		53.7
13C5-Perfluoropentanoic acid	ng/L	N/A*****	N/A*****	N/A*****	N/A*****		N/A*****
18O2-Perfluorohexanesulfonate	ng/L	62.9	69.4	63.8	77.7		53.3

Parameter Name	B630790 BVX758	B630790 BVX759	B630790 BVX760	B630790 BVX761	B630790 BVX762	B630790 BVX763	B630790 BVX764
Perfluorobutanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorobutane Sulfonate (PFBS)	0.75100	0	9.40000	0	31.00000	0	0
Perfluorodecane Sulfonate	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluoroheptanoic Acid (PFHpA)	0.24000	0.13500	8.62000	0.17500	8.36000	0.09090	0.14200
Perfluoroheptane sulfonate	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorohexanoic Acid (PFHxA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorohexane Sulfonate (PFHxS)	0.81500	0	32.30000	0.30800	650.00000	0	0
Perfluorononanoic Acid (PFNA)	0	0	1.91000	0	1.10000	0	0
Perfluoropentanoic Acid (PFPeA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorotetradecanoic Acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorotridecanoic Acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluoroundecanoic Acid (PFUnA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorodecanoic Acid (PFDA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorododecanoic Acid (PFDoA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluoro-n-Octanoic Acid (PFOA)	0.05140	0	52.10000	0	161.00000	0	0.06890
Perfluorooctane Sulfonate (PFOS)	1.22000	0.34600	81.50000	0.42600	988.00000	0.35800	0.42600
13C2-perfluorotetradecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C4-Perfluorobutanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C5-Perfluorononanoic acid	68.4	62.2	!! 39.0	57.1	!! 40.0	!! 41.1	!! 28.3
13C2-Perfluorodecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C2-Perfluorododecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C2-Perfluorohexanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C2-Perfluoroundecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C4-Perfluoroheptanoic acid	80.5	65.4	!! 43.7	65.4	!! 40.9	!! 43.1	!! 30.7
13C4-Perfluorooctanoic acid	82.1	68.9	!! 46.4	64.7	!! 42.3	!! 45.7	!! 32.0
13C4-Perfluorooctanesulfonate	68.3	63.9	!! 39.2	62.1	!! 32.6	!! 41.9	!! 26.1
13C5-Perfluoropentanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
18O2-Perfluorohexanesulfonate	79.2	61.1	!! 47.3	60.1	!! 37.1	!! 45.5	!! 30.9

Low level PFOS and PFOA in water - Water
ng/L

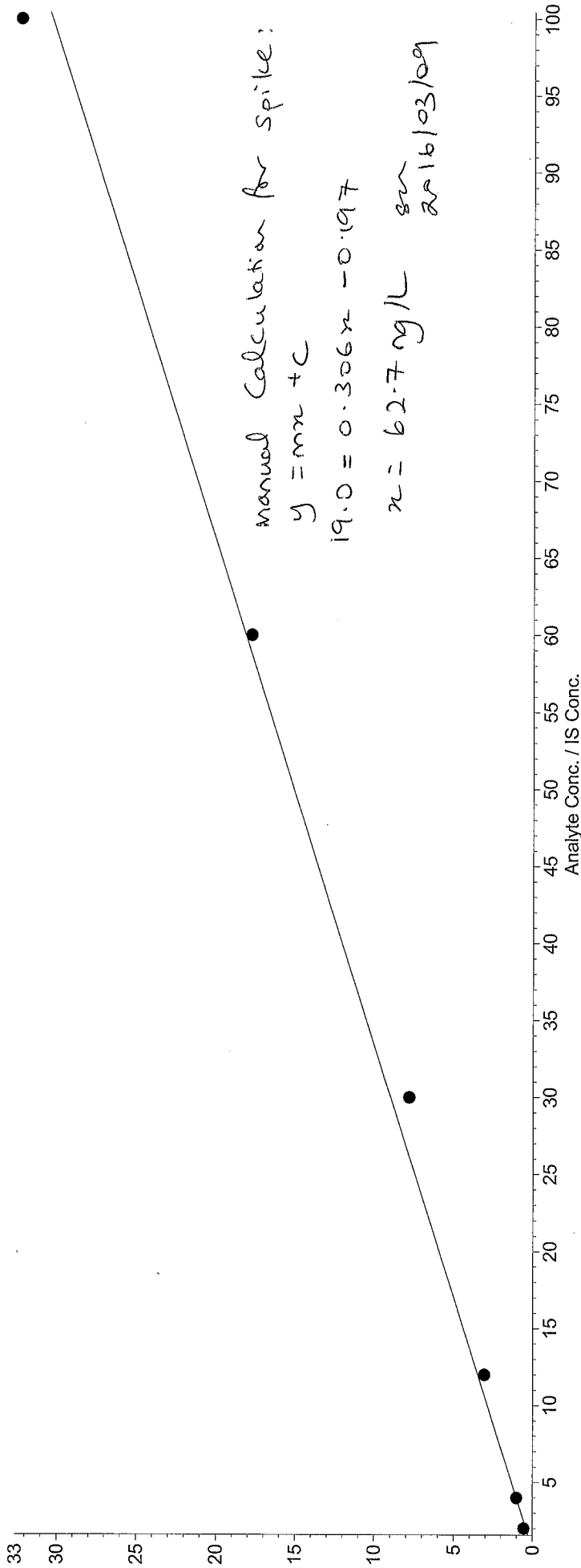
Parameter Name	B630790 BVX765	B630790 BVX766	B630790 BVX767	B630790 BVX768	B632546 BWH243	B632546 BWH244	B632546 BWH245
Perfluorobutanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorobutane Sulfonate (PFBS)	0	0	0	0.75900	0	12.40000	0
Perfluorodecane Sulfonate	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluoroheptanoic Acid (PFHpA)	0.13200	0.17300	0.21700	0.11600	0.11100	15.00000	0.10800
Perfluoroheptane sulfonate	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorohexanoic Acid (PFHxA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorohexane Sulfonate (PFHxS)	0	0.41600	0	0.32200	0	11.60000	0
Perfluorononanoic Acid (PFNA)	0	0	0	0	0	7.69000	0
Perfluoropentanoic Acid (PFPeA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorotetradecanoic Acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorotridecanoic Acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluoroundecanoic Acid (PFUnA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorodecanoic Acid (PFDA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluorododecanoic Acid (PFDoA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
Perfluoro-n-Octanoic Acid (PFOA)	0	0	0	0	0.08740	55.00000	0.13800
Perfluorooctane Sulfonate (PFOS)	0.39100	0.49800	0.41000	0.44500	0.52000	108.00000	0.48300
13C2-perfluorotetradecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C4-Perfluorobutanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C5-Perfluorononanoic acid	58.3	47.5	50.3	30.2	51.0	55.4	70.1
13C2-Perfluorodecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C2-Perfluorododecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C2-Perfluorohexanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C2-Perfluoroundecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
13C4-Perfluoroheptanoic acid	61.8	56.7	47.9	36.5	54.1	59.3	74.1
13C4-Perfluorooctanoic acid	63.6	57.0	54.3	36.8	53.5	61.8	76.7
13C4-Perfluorooctanesulfonate	63.2	49.5	52.6	30.3	53.2	56.5	72.6
13C5-Perfluoropentanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****
18O2-Perfluorohexanesulfonate	59.7	59.4	52.7	32.5	48.3	66.8	71.7

Parameter Name	B632546 BWH246	B632546 BWH247	B632546 BWH248	B633696 BWN123	B633696 BWN124	DL	RDL
Perfluorobutanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	2	2
Perfluorobutane Sulfonate (PFBS)	0	0	0	0	0.72300	2	2
Perfluorodecane Sulfonate	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	2	2
Perfluoroheptanoic Acid (PFHpA)	0.11100	0.09120	0.11700	0.13000	2.21000	2	2
Perfluoroheptane sulfonate	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	2	2
Perfluorohexanoic Acid (PFHxA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	2	2
Perfluorohexane Sulfonate (PFHxS)	0	0	0.37600	0	0.37000	2	2
Perfluorononanoic Acid (PFNA)	0	0	0	0	0	2	2
Perfluoropentanoic Acid (PFPeA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	2	2
Perfluorotetradecanoic Acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	2	2
Perfluorotridecanoic Acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	2	2
Perfluoroundecanoic Acid (PFUnA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	2	2
Perfluorodecanoic Acid (PFDA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	2	2
Perfluorododecanoic Acid (PFDoA)	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****	2	2
Perfluoro-n-Octanoic Acid (PFOA)	0	0.00640	0.05390	0	55.80000	2	2
Perfluorooctane Sulfonate (PFOS)	0.43700	0.42000	0.42000	0.49100	0.49600	2	2
13C2-perfluorotetradecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****		
13C4-Perfluorobutanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****		
13C5-Perfluorononanoic acid	39.5	70.1	35.9	59.5	94.9		
13C2-Perfluorodecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****		
13C2-Perfluorododecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****		
13C2-Perfluorohexanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****		
13C2-Perfluoroundecanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****		
13C4-Perfluoroheptanoic acid	43.8	73.2	41.4	57.4	97.4		
13C4-Perfluorooctanoic acid	44.0	79.3	43.5	58.8	98.7		
13C4-Perfluorooctanesulfonate	37.4	72.7	36.6	57.5	88.4		
13C5-Perfluoropentanoic acid	N/A*****	N/A*****	N/A*****	N/A*****	N/A*****		
18O2-Perfluorohexanesulfonate	45.5	68.7	39.9	60.4	92.1		

Low level PFOS and PFOA in water - Water
ng/L

Parameter Name	MDL	IDL					
Perfluorobutanoic acid	0.41	0					
Perfluorobutane Sulfonate (PFBS)	0.27	0					
Perfluorodecane Sulfonate	0.38	0					
Perfluoroheptanoic Acid (PFHpA)	0.39	0					
Perfluoroheptane sulfonate	0.4	0					
Perfluorohexanoic Acid (PFHxA)	0.42	0					
Perfluorohexane Sulfonate (PFHxS)	0.4	0					
Perfluorononanoic Acid (PFNA)	0.33	0					
Perfluoropentanoic Acid (PFPeA)	0.46	0					
Perfluorotetradecanoic Acid	0.61	0					
Perfluorotridecanoic Acid	0.6	0					
Perfluoroundecanoic Acid (PFUnA)	0.5	0					
Perfluorodecanoic Acid (PFDA)	0.24	0					
Perfluorododecanoic Acid (PFDoA)	0.63	0					
Perfluoro-n-Octanoic Acid (PFOA)	0.39	0					
Perfluorooctane Sulfonate (PFOS)	0.3	0					
13C2-perfluorotetradecanoic acid							
13C4-Perfluorobutanoic acid							
13C5-Perfluorononanoic acid							
13C2-Perfluorodecanoic acid							
13C2-Perfluorododecanoic acid							
13C2-Perfluorohexanoic acid							
13C2-Perfluoroundecanoic acid							
13C4-Perfluoroheptanoic acid							
13C4-Perfluorooctanoic acid							
13C4-Perfluorooctanesulfonate							
13C5-Perfluoropentanoic acid							
18O2-Perfluorohexanesulfonate							

■ PFC_Water_160223_4390179_ULow.rdb (PFBS 1): "Linear" Regression ("1 / x" weighting): $y = 0.306x + -0.197$ ($r = 0.9965$)



Sample Name: 'STD 4' Sample ID: 'STD 4' File: 'MS4390179.wiff'

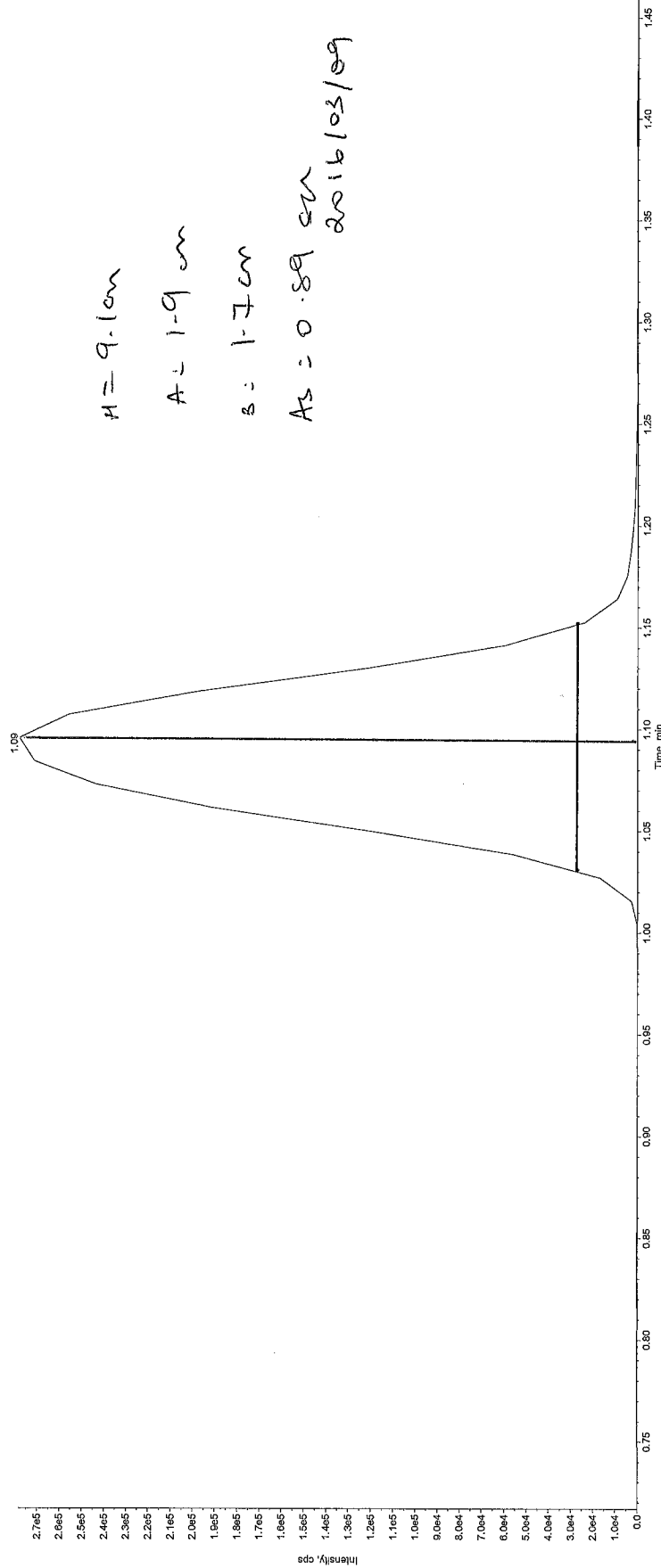
Peak Name: 'PFBS 1' Mass(es): '268.00076,600 Da'

Comment: 'Annotation: ''

Sample Index: 6
 Sample Type: Standard
 Sample Conc: 26.0 ng/L
 Calculated Conc: 26.0 ng/L
 Acq. Date: 2016/02/23
 Acq. Time: 2:16:23 PM

Modified: No
 Processing: Analyst Classic
 Bunching Factor: 1
 Noise Threshold: 200.00 cps
 Area Threshold: 200.00 cps
 Num. Epochs: 2
 Sep. Height: 0.00
 Exp. Peak Ratio: 5.00
 Exp. Adj. Ratio: 4.00
 Exp. Min. Ratio: 30.00 sec
 Expected RT: 1.09 min
 Use Relative RT: No

Acq. Type: Base To Base
 Start Time: 1.27 min
 Stop Time: 1.27 min
 Peak Count: 1270000.00 counts
 Weight: 2.78e+005 cps
 Start Time: 0.991 min
 Stop Time: 1.27 min

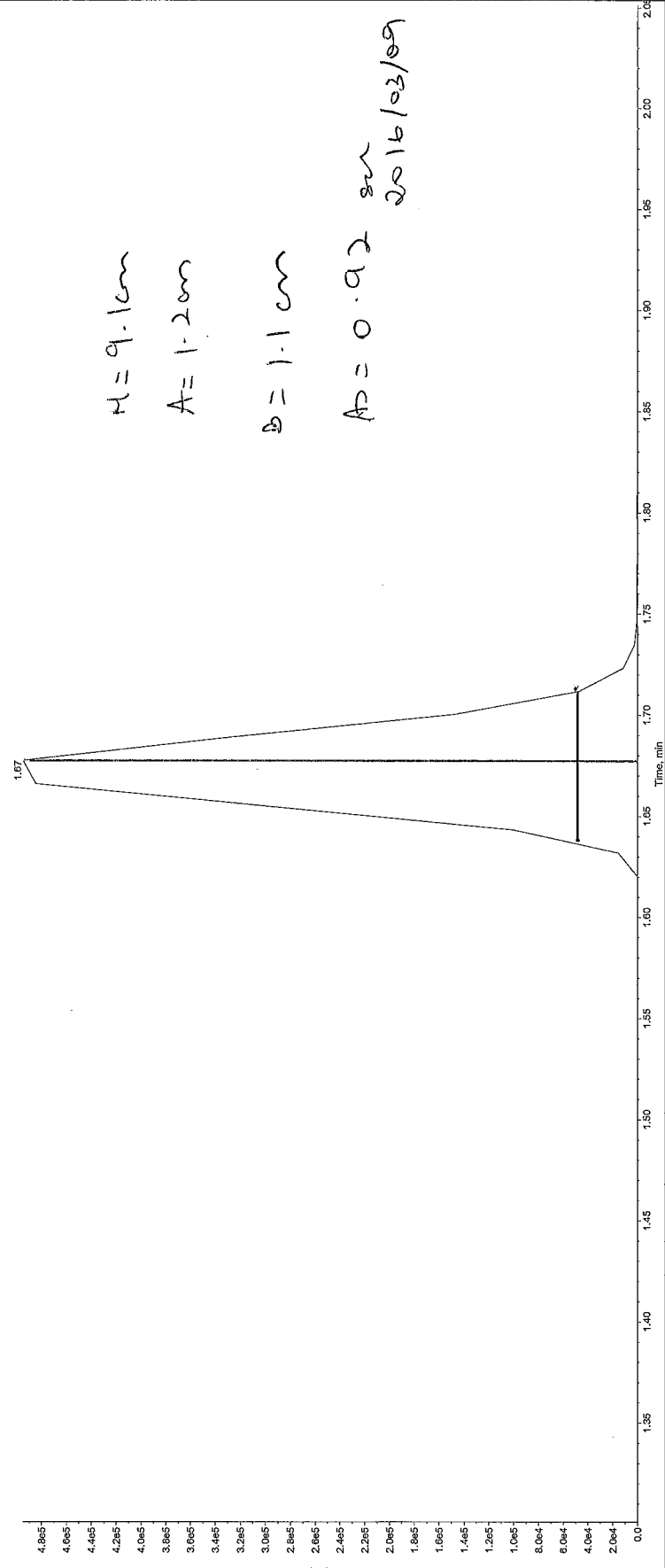


Sample Name: STD 4 Sample ID: STD 4 File: W:\SI\4390179.wiff
 Sample Index: 6
 Comments: Annotation: 6

Sample Type: Standard
 Concentration: 30.0 ng/L
 Calculated Conc: 2016/02/23 11:16:23 AM
 Acq. Time: 2:16:23 PM










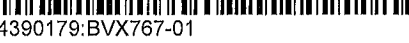

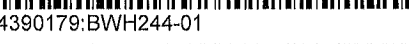
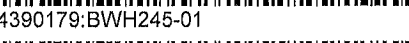
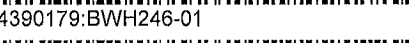
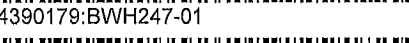
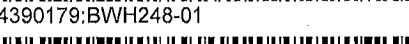
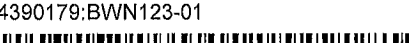
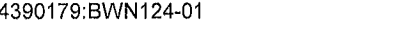
Modified: No
 Proc. Algorithm: Analyst Classic
 Noise Threshold: 200.00 cps
 Area Threshold: 200.00 cps
 Num. Smoother: 2
 Sep. Width: 0.00
 Sep. Peak: 3.00
 Exp. Peak Ratio: 5.00
 Exp. Adj. Ratio: 4.00
 Exp. Val. Ratio: 3.00
 RT Window: 30.0 sec
 RT Offset: 1.68 min
 Use Relative RT: No

Peak Type: Base To Base
 Retention Time: 1.67 min
 Area: 130000.005 counts
 Height: 5120.005 cps
 Start Time: 1.61 min
 End Time: 1.77 min



<u>Sample Number</u>	<u>Parameter</u>
BVX757-01	Perfluorobutane Sulfonate (PFBS)
BVX758-01	Perfluoroheptanoic Acid (PFHpA)
BVX759-01	Perfluorohexane Sulfonate (PFHxS)
BVX760-01	Perfluorononanoic Acid (PFNA)
BVX761-01	Perfluoro-n-Octanoic Acid (PFOA)
BVX762-01	Perfluorooctane Sulfonate (PFOS)
BVX763-01	
BVX764-01	
BVX765-01	
BVX766-01	
BVX767-01	
BVX768-01	
BWN123-01	
BWN124-01	
BWH243-01	Perfluorobutane Sulfonate (PFBS)
BWH244-01	Perfluoroheptane sulfonate
BWH245-01	Perfluorohexane Sulfonate (PFHxS)
BWH246-01	Perfluorononanoic Acid (PFNA)
BWH247-01	Perfluoro-n-Octanoic Acid (PFOA)
BWH248-01	Perfluorooctane Sulfonate (PFOS)

WorkSheet 4390179 Instrument Sequences

1.	 4390179:MTRX SPK	MTRX SPK
2.	 4390179:MTRX SPK:D1	MTRX SPK :D1
3.	 4390179:SPIKE	SPIKE
4.	 4390179:BLANK	BLANK
5.	 4390179:BVX757-01	OF-FB62-0216
6.	 4390179:BVX758-01	OF-RW62-0216
7.	 4390179:BVX759-01	OF-FB63-0216
8.	 4390179:BVX760-01	OF-RW63-0216
9.	 4390179:BVX761-01	OF-FB59-0216
10.	 4390179:BVX762-01	OF-RW59-0216
11.	 4390179:BVX763-01	OF-FB50-0216
12.	 4390179:BVX764-01	OF-RW50-0216
13.	 4390179:BVX765-01	OF-FB34-0216
14.	 4390179:BVX766-01	OF-RW34-0216
15.	 4390179:BVX767-01	OF-FB38-0216
16.	 4390179:BVX768-01	OF-RW38-0216
17.	 4390179:BWH243-01	OF-FB02-0216
18.	 4390179:BWH244-01	OF-RW02-0216
19.	 4390179:BWH245-01	OF-FB15-0216
20.	 4390179:BWH246-01	OF-RW15-0216
21.	 4390179:BWH247-01	OF-FB18-0216
22.	 4390179:BWH248-01	OF-RW18-0216
23.	 4390179:BWN123-01	4957 RT 67
24.	 4390179:BWN124-01	416 BOVIE HILL RD

Worksheet Reagent Tracking Record

Worksheet # 4390179

Surrogate/Spike solutions	✓	Solution ID #		Conc.	Blk-Spk		MS		Samples	
					Solid	Liquid	Solid	Liquid	Solid	Liquid
DGT Spike				100 ug/mL	60	30	60	30	NA	NA
Diquat Dibromide				50 ug/mL	NA	350	NA	350	NA	NA
Explosives Spiking solution A				20 ug/mL	250	100	250	100	NA	NA
Explosives Spiking solution B				20/80 ug/mL	250	100	250	100	NA	NA
Formaldehyde Spike				100 ug/mL	25	25	25	25	NA	NA
Glyphosate Spike				25 ug/mL	500	20	500	20	NA	NA
Nonylphenol Ethoxylate Spike				100 ug/mL	100	100	100	100	NA	NA
Nonylphenol Spike				10 ug/mL	100	100	100	100	NA	NA
Paraquat Cl Tetrahydrate				20 ug/mL	NA	125	NA	125	NA	NA
Perchlorate Standard Spike				10 ng/mL	NA	100	NA	100	NA	NA
Perchlorate Standard Spike				500 ng/mL	40	NA	40	NA	NA	NA
Perchlorate O-18 Internal Standard				0.10 ng/uL	20	20	20	20	20	20
Morpholine Intermediate Std.				5 ug/mL	NA	50	NA	20	NA	NA
Morpholine-D8 Internal Standard				10 ug/mL	NA	100	NA	100	NA	100
Comp. PFC Spiking Solution A				1ug/mL	62.5	NA	62.5	NA	NA	NA
Comp. PFC Spiking Solution B				250 ng/mL	NA	40	75	NA	40	75
Comp. PFC Spiking Solution C	/	SK-6229		100 ng/mL	125	62.5	NA	125	62.5	NA
Internal Standard Solution A	/	SE-6010		50 ng/mL	50	15	100	50	15	100
Internal Standard Solution B				250ng/mL	50	NA	50	NA	50	NA
ICV/PCV PFC	/	I-4676		1ug/mL		62.5				
Solvent/Reagent	Supplier	✓	Lot No.	Date Opened	Solvent/Reagent	✓	Lot No.	Date Opened/Prepared	*Spiked by:	
DCM	Fisher				50% NaOH				652	
Hexane	Fisher				20mM TBAS				Spike Date	
Acetone	Fisher				o-Phosphoric Acid				2016/02/22	
Ottawa Sand	Fisher				Borax				Spike Syringe ID# <i>Pignator</i>	
Methanol	<i>alcohol</i> Fisher	/	SAB66076V	2016/02/22	Calcium Chloride				M23487B	
2-Propanol (IPA)	Fisher				EDTA				Int. Std Syringe ID# <i>Pignator</i>	
Acetonitrile	Fisher				Phosphate Buffer				M23487B	
MTBE	Fisher				Sodium Thiosulphate				*Spiking Witnessed by: <i>ymw</i>	
Sodium Sulfate 6040 H ₂ O MeOH Recon Solution	Fisher	/	87-190	2016/02/12	5M Acetate Buffer				Final pH	
DCM:Ethyl Ether (75:25)					FMOc				X	
Hexane:IPA (98:2)					0.25M Na ₂ CO ₃					
2% Formic Acid		/	87-131	2016/01/13	0.5M TBAS					
0.2% Formic Acid		/	87-114	2015/12/31	1% NH ₄ OH 0.2%	/	87-205	2016/02/22		
0.05M KOH					Leachate Fluid					
0.05M HCl					Reagent Water	/	SAB65572V	2016/02/21		
Equipment	ID#	✓	Equipment	ID#	✓	Equipment	Lot #	Bottle Tracking		
Pipettor	M16944C	/	SPE Cartridge	002635315A	/	10 mL Serological Pipet		Bottle# 14991		
	K19609D	/	Filter		/	QC Balance ID		Cap# 1443		
Dispenser	P29746D	/	Centrifuge			Thermometer ID & Temp	SN 140614017 45°C	Systems plus Lot#		
Syringe			Sonicator					16-01-06		

Comments: 125ml Ref Bottle (HDPE)
Inj. IS - SE-6039 - 2016/02/19
HPLC Evaporator

* - SPIKING OF MAXXAM ANALYTICS MUST BE WITNESSED AT ALL TIMES.

Project: D:\Analyst Data\Projects\Enviro\PFOS Batch:PFC_160223A Tab:Sample Set:SET1 AcqMethod:PFC_Water_Low.dam
Sample

Sample	Sample Name	Rack Code	Rack Position	Plate Code	Plate Position	Vial Position	Data File	Inj. Volume (µl)
1	Rinse	2 Well Plates	1	*54VialPlate*	1	1	PFC_160223\WS#4390179	3,000
2	4390179-BLANK	2 Well Plates	1	*54VialPlate*	1	2	PFC_160223\WS#4390179	3,000
3	STD 1	2 Well Plates	1	*54VialPlate*	1	3	PFC_160223\WS#4390178	3,000
4	STD 2	2 Well Plates	1	*54VialPlate*	1	4	PFC_160223\WS#4390178	3,000
5	STD 3	2 Well Plates	1	*54VialPlate*	1	5	PFC_160223\WS#4390178	3,000
6	STD 4	2 Well Plates	1	*54VialPlate*	1	6	PFC_160223\WS#4390178	3,000
7	STD 5	2 Well Plates	1	*54VialPlate*	1	7	PFC_160223\WS#4390178	3,000
8	STD 6	2 Well Plates	1	*54VialPlate*	1	8	PFC_160223\WS#4390178	3,000
9	ICV	2 Well Plates	1	*54VialPlate*	1	8	PFC_160223\WS#4390178	3,000
10	CCV	2 Well Plates	1	*54VialPlate*	1	6	PFC_160223\WS#4390178	3,000
11	4390179-MFRX SPK	2 Well Plates	1	*54VialPlate*	1	10	PFC_160223\WS#4390179	3,000
12	4390179-MFRX SPKCD1	2 Well Plates	1	*54VialPlate*	1	11	PFC_160223\WS#4390179	3,000
13	4390179-SFKE	2 Well Plates	1	*54VialPlate*	1	12	PFC_160223\WS#4390179	3,000
14	4390179-BVX757-01	2 Well Plates	1	*54VialPlate*	1	13	PFC_160223\WS#4390179	3,000
15	4390179-BVX758-01	2 Well Plates	1	*54VialPlate*	1	14	PFC_160223\WS#4390179	3,000
16	4390179-BVX759-01	2 Well Plates	1	*54VialPlate*	1	15	PFC_160223\WS#4390179	3,000
17	4390179-BVX760-01	2 Well Plates	1	*54VialPlate*	1	16	PFC_160223\WS#4390179	3,000
18	4390179-BVX761-01	2 Well Plates	1	*54VialPlate*	1	17	PFC_160223\WS#4390179	3,000
19	4390179-BVX762-01	2 Well Plates	1	*54VialPlate*	1	18	PFC_160223\WS#4390179	3,000
20	4390179-BVX763-01	2 Well Plates	1	*54VialPlate*	1	19	PFC_160223\WS#4390179	3,000
21	4390179-BVX764-01	2 Well Plates	1	*54VialPlate*	1	20	PFC_160223\WS#4390179	3,000
22	4390179-BVX765-01	2 Well Plates	1	*54VialPlate*	1	21	PFC_160223\WS#4390179	3,000
23	4390179-BVX766-01	2 Well Plates	1	*54VialPlate*	1	22	PFC_160223\WS#4390179	3,000
24	CCV	2 Well Plates	1	*54VialPlate*	1	6	PFC_160223\WS#4390179	3,000
25	4390179-BVX767-01	2 Well Plates	1	*54VialPlate*	1	23	PFC_160223\WS#4390179	3,000
26	4390179-BVX768-01	2 Well Plates	1	*54VialPlate*	1	24	PFC_160223\WS#4390179	3,000
27	4390179-BWH243-01	2 Well Plates	1	*54VialPlate*	1	25	PFC_160223\WS#4390179	3,000
28	4390179-BWH244-01	2 Well Plates	1	*54VialPlate*	1	26	PFC_160223\WS#4390179	3,000
29	4390179-BWH245-01	2 Well Plates	1	*54VialPlate*	1	27	PFC_160223\WS#4390179	3,000
30	4390179-BWH246-01	2 Well Plates	1	*54VialPlate*	1	28	PFC_160223\WS#4390179	3,000
31	4390179-BWH247-01	2 Well Plates	1	*54VialPlate*	1	29	PFC_160223\WS#4390179	3,000
32	4390179-BWH248-01	2 Well Plates	1	*54VialPlate*	1	30	PFC_160223\WS#4390179	3,000
33	4390179-BWN123-01	2 Well Plates	1	*54VialPlate*	1	31	PFC_160223\WS#4390179	3,000
34	4390179-BWN124-01	2 Well Plates	1	*54VialPlate*	1	32	PFC_160223\WS#4390179	3,000
35	CCV	2 Well Plates	1	*54VialPlate*	1	6	PFC_160223\WS#4390179	3,000

Column # 122

MPA = Soln #513, FSRE17

MPB = Methanol
(Folder 10A# 158013)

run 2016/02/23

verified run 2016/02/24

Results Path: \\miss-netapp2\lcms\lcms3\Analyst
Data\Projects\Enviro\FOS\Results\PFC_Water_160223_4390179_Ulow.rdb

Printing Date: Tuesday, March 01, 2016

Maxxam Analytics

Sample ID	Acquisition Date	Acquisition Method	File Name	Rack Type	Rack Position	Vial Position	Plate Type	Plate Position
1	2016/02/23 1:55:57 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	2	*54VialPlate*	1
2	2016/02/23 2:01:03 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	3	*54VialPlate*	1
3	2016/02/23 2:06:08 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	4	*54VialPlate*	1
4	2016/02/23 2:11:18 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	5	*54VialPlate*	1
5	2016/02/23 2:16:23 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	6	*54VialPlate*	1
6	2016/02/23 2:21:28 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	7	*54VialPlate*	1
7	2016/02/23 2:26:34 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	8	*54VialPlate*	1
8	2016/02/23 2:31:40 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	9	*54VialPlate*	1
9	2016/02/23 2:36:50 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	6	*54VialPlate*	1
10	2016/02/23 2:41:55 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	10	*54VialPlate*	1
11	2016/02/23 2:47:05 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	11	*54VialPlate*	1
12	2016/02/23 2:52:10 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	12	*54VialPlate*	1
13	2016/02/23 2:57:15 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	13	*54VialPlate*	1
14	2016/02/23 3:02:25 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	14	*54VialPlate*	1
15	2016/02/23 3:07:31 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	15	*54VialPlate*	1
16	2016/02/23 3:12:36 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	16	*54VialPlate*	1
17	2016/02/23 3:17:42 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	17	*54VialPlate*	1
18	2016/02/23 3:22:47 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	18	*54VialPlate*	1
19	2016/02/23 3:27:52 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	19	*54VialPlate*	1
20	2016/02/23 3:32:58 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	20	*54VialPlate*	1
21	2016/02/23 3:38:04 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	21	*54VialPlate*	1
22	2016/02/23 3:43:10 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	22	*54VialPlate*	1
23	2016/02/23 3:48:16 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	6	*54VialPlate*	1
24	2016/02/23 3:53:21 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	23	*54VialPlate*	1
25	2016/02/23 3:58:27 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	24	*54VialPlate*	1
26	2016/02/23 4:03:33 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	25	*54VialPlate*	1
27	2016/02/23 4:08:39 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	26	*54VialPlate*	1
28	2016/02/23 4:13:45 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	27	*54VialPlate*	1
29	2016/02/23 4:18:50 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	28	*54VialPlate*	1
30	2016/02/23 4:23:56 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	29	*54VialPlate*	1
31	2016/02/23 4:29:01 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	30	*54VialPlate*	1
32	2016/02/23 4:34:07 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	31	*54VialPlate*	1
33	2016/02/23 4:39:13 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	32	*54VialPlate*	1
34	2016/02/23 4:44:19 PM	PFC_Water_Low.dam	PFC_160223\WS#4390179.wiff	2 Well Plates	1	6	*54VialPlate*	1

DoD Projects - Internal Data Validation Checklist					
Run date: 2016/02/26					
Worksheet # (s): 4394551					
Analysis: Pfoslow-w			1st 100% review		*2nd 100% review
Primary review by the analyst - 1st 100 % analysis review			yes	no	n/a
1	Sample analyses meet hold time criteria			✓	✓
2	Analysis set-up meets method criteria	✓			✓
3	Tuning and correct calibration used - criteria meets method criteria	✓			✓
4	SQC/Control Charts updated, analysis in statistical/method control			✓	✓
5	Internal area counts checked (if applicable)	✓			✓
6	LCS, SRM are within acceptance criteria	✓			✓
7	Surrogate Recovery(s) is within acceptance criteria	✓			✓
8	Method Blank meets acceptance criteria	✓			✓
9	Matrix Spike recovery(s) meets acceptance criteria	✓			✓
10	Duplicate precision meets acceptance criteria	✓			✓
11	QC is documented on the run logs	✓			✓
12	Runs checked for carryover	✓			✓
13	Prep log / worksheet(s) are present, signed / dated by a prep / instrument analysts	✓			✓
14	Initial weights, splits, imprinter volumes (where applicable) are documented	✓			✓
15	Standards and reagents traceable to Certificates of Analysis	✓			✓
16	Samples above calibration range diluted and reanalyzed			✓	✓
17	Dilution factors (where justified) have been checked for correctness and entered	✓			✓
18	Analytical observations/anomalies documented in LIMS	✓			✓
19	Random calculation checked and in correct units	✓			✓
20	If corrective actions were applied they are documented, initialed & dated			✓	✓
21	Manual integration – before & after data with a reason included, initialed & dated			✓	✓
22	Transferred data is validated in LIMS for correctness	✓			✓
23	Data package assembled (where required)	✓			✓
Reviewed by: <i>aw</i>		Date: 2016/02/29			
Comments:					
Secondary Supervisor/Qualified Data Review Staff - 2nd 100% verification review					
		yes	no	n/a	
1	Repeats documented and referenced			✓	
2	Method and sample deviations noted, anomalies described (if applicable)			✓	
3	Data and QC validated in LIMS	✓			
4	Random calculation checked	✓			
5	Benchsheet (s) signed and dated	✓			
6	Data Package (if required) checked for completeness	✓			
Reviewed by: <i>aw</i>		Date: 2016/02/29			
Comments:					

*Note: 2nd 100% verification review documented by secondary qualified data review
 Primary and Secondary Internal Data Review Check must be performed by a different person

Worksheet Data Validation Checklist - Extractable Organics

Worksheet # 4394557 Testcode: PFOSLOW-W

Sample Preparation		yes	no	n/a
1	Samples extracted within hold time		<input checked="" type="checkbox"/>	
2	Client sample ID verified against Lab ID (waters & oils)	<input checked="" type="checkbox"/>		
3	Parameter list and Client comments reviewed, (Spiking solutions matched to parameter list)	<input checked="" type="checkbox"/>		
4	Height of sediment or if sample was decanted, recorded on worksheet	<input checked="" type="checkbox"/>		
5	Method required QC processed with samples, maximum batch size = 20 client samples.	<input checked="" type="checkbox"/>		
6	Sample, duplicate, matrix spike appear similar, initial sample as well as final extract	<input checked="" type="checkbox"/>		
7	Sample weight or initial volume and extract final volume, aliquot factor clearly recorded.	<input checked="" type="checkbox"/>		
8	If performed any additional dilution clearly recorded	<input checked="" type="checkbox"/>		
9	Matrix spike / Duplicate performed on IOL samples if present			<input checked="" type="checkbox"/>
10	Spiking solutions valid (haven't expired), ID and volume used clearly identified on worksheet	<input checked="" type="checkbox"/>		
11	Spiking process witnessed and signed off	<input checked="" type="checkbox"/>		
12	Extraction type recorded (N3A2B = neutral, 3 x acidic, 2 x basic)			<input checked="" type="checkbox"/>
13	Sample prep deviations documented within CompliantPro as a Policy Deviation			<input checked="" type="checkbox"/>
14	Job Remarks reviewed on 2nd page of worksheet.	<input checked="" type="checkbox"/>		
15	Worksheet and reagent tracking record completed and authorized.	<input checked="" type="checkbox"/>		

Reviewed by: [Signature] Date: 2016/02/25

Comments: * All samples are already expired. Reanalysis done past hold time. See copy of e-mail.

Worksheet Approval		yes	no	n/a
1	Verified the position of the vials in autosampler against sequence list; signed off sequence list			
2	Calibration and CCV standards valid (haven't expired)			
3	Initial calibration curve and DFTPP tune (if applicable) acceptable			
4	Continuing and Final CCV and DFTPP tune (if applicable) acceptable			
5	System performance check acceptable (if applicable)			
6	Internal standard responses acceptable			
7	Method blank meets acceptance criteria			
8	Lab Control Samples recoveries meets acceptance criteria			
9	Duplicate RPD meets acceptance criteria			
10	Matrix spike recoveries meets acceptance criteria			
11	Surrogate recoveries meets acceptance criteria			
12	Appropriate control charts updated			
13	Samples above calibration range diluted and reanalyzed			
14	Dilutions clearly documented on tracking record, inst file and verified during data upload			
15	Samples following high level samples checked for carryover.			
16	Mass spectra ion ratios acceptable for positive results, hardcopy in file.			
17	Analytical observations / anomalies documented			
18	DQW comments entered in LIMS, hardcopy in file			
19	Sample Prep section (above) reviewed and verified.			
20	WS Approval performed in LIMS			

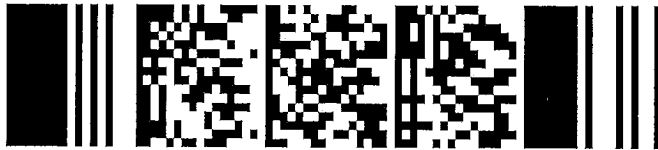
Reviewed by: _____ Date: See BRL FCD 0002

Comments: on 2/16/2016

Worksheet Validation		yes	no	n/a
1	Calibration, QC and sample results reviewed and determined acceptable			
2	Manual integrations verified			
3	Random calculation checked			
4	Data and QC validated in LIMS			
5	Comments reviewed for appropriateness			
6	Reworks / relogs documented in file			
7	Worksheet signed and dated,			
8	Worksheet approved and validated within LIMS			

Reviewed by: _____ Date: _____

Comments: _____



RUSH

Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Thursday, February 25, 2016

Assigned to : Melinda Molina

Test Code : PFOSLOW-W

Instrument Id:

Test Description : Low level PFOS and PFOA in water by LC-MS/MS

Sediment

Job Number	Sample Number	D	Sample ID	F	Moist ure	<i>mm</i> % or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date
	MTRX SPK	0	PFOSL BVX760-01		0	125	0.3	1X					2016/02/25
	MTRX SPK	1	PFOSL BVX760-01		0	125	0.3	1X					2016/02/25
	SPIKE		PFOSL		0	125	0.3	1X					2016/02/25
	BLANK				0	125	0.3	1X					2016/02/25
B630790*	*BVX757-01R		OF-FB62-0216	/	0	125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25
B630790*	*BVX758-01R		OF-RW62-0216	/	0	125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25
B630790*	*BVX759-01R		OF-FB63-0216	/	0	125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25
B630790*	*BVX760-01R		OF-RW63-0216	/	0	125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25
B630790*	*BVX761-01R		OF-FB59-0216	/	0	125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25
B630790*	*BVX762-01R		OF-RW59-0216	/	0	125/125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25
B630790*	*BVX763-01R		OF-FB50-0216	/	0	125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25
B630790*	*BVX764-01R		OF-RW50-0216	/	20.1	125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25
B630790*	*BVX765-01R		OF-FB34-0216	/	0	125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25
B630790*	*BVX766-01R		OF-RW34-0216	/	20.1	125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25
B630790*	*BVX767-01R		OF-FB38-0216	/	0	125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25
B630790*	*BVX768-01R		OF-RW38-0216	/	0	125	0.3	1X	2	2016/02/23	2016/02/23 18:00		2016/02/25

Melinda Molina
2016 02/25

Remarks: _____

Samples extracted by: Melinda Molina *mm 2016 02/25*

Instrumentation performed by: *mm*

Date: 2016/02/26

Calculations performed by: *mm*

Date: 2016/02/25

Validated by: *mm*

Date: 2016/2002/29

Low level PFOS and PFOA in water - Water
ng/L

Parameter Name	Units	MTRX SPK	DL	MTRX SPK Dup1	DL	SPIKE	DL
Perfluorobutanoic acid	ng/L	N/A*****		N/A*****		N/A*****	
Perfluorobutane Sulfonate (PFBS)	ng/L	145.760	2	147.160	2	91.00000	2
Perfluorodecane Sulfonate	ng/L	N/A*****		N/A*****		N/A*****	
Perfluoroheptanoic Acid (PFHpA)	ng/L	117.80000	2	111.00000	2	92.20000	2
Perfluoroheptane sulfonate	ng/L	N/A*****		N/A*****		N/A*****	
Perfluorohexanoic Acid (PFHxA)	ng/L	N/A*****		N/A*****		N/A*****	
Perfluorohexane Sulfonate (PFHxS)	ng/L	121.60000	2	133.000	2	96.20000	2
Perfluorononanoic Acid (PFNA)	ng/L	126.88000	2	119.08000	2	100.80000	2
Perfluoropentanoic Acid (PFPeA)	ng/L	N/A*****		N/A*****		N/A*****	
Perfluorotetradecanoic Acid	ng/L	N/A*****		N/A*****		N/A*****	
Perfluorotridecanoic Acid	ng/L	N/A*****		N/A*****		N/A*****	
Perfluoroundecanoic Acid (PFUnA)	ng/L	N/A*****		N/A*****		N/A*****	
Perfluorodecanoic Acid (PFDA)	ng/L	N/A*****		N/A*****		N/A*****	
Perfluorododecanoic Acid (PFDoA)	ng/L	N/A*****		N/A*****		N/A*****	
Perfluoro-n-Octanoic Acid (PFOA)	ng/L	115.8000NC	2	116.0000NC	2	92.80000	2
Perfluorooctane Sulfonate (PFOS)	ng/L	141.2NC	2	141.2NC	2	101.80000	2
13C2-perfluorotetradecanoic acid	ng/L	N/A*****		N/A*****		N/A*****	
13C4-Perfluorobutanoic acid	ng/L	N/A*****		N/A*****		N/A*****	
13C5-Perfluorononanoic acid	ng/L	68.5		81.6		136.	
13C2-Perfluorodecanoic acid	ng/L	N/A*****		N/A*****		N/A*****	
13C2-Perfluorododecanoic acid	ng/L	N/A*****		N/A*****		N/A*****	
13C2-Perfluorohexanoic acid	ng/L	N/A*****		N/A*****		N/A*****	
13C2-Perfluoroundecanoic acid	ng/L	N/A*****		N/A*****		N/A*****	
13C4-Perfluoroheptanoic acid	ng/L	68.5		80.6		137.	
13C4-Perfluorooctanoic acid	ng/L	75.4		82.9		140.	
13C4-Perfluorooctanesulfonate	ng/L	66.1		71.3		132.	
13C5-Perfluoropentanoic acid	ng/L	N/A*****		N/A*****		N/A*****	
18O2-Perfluorohexanesulfonate	ng/L	77.1		83.7		137.	

Parameter Name	BLANK	DL	B630790 BVX757 ReWork	DL	B630790 BVX758 ReWork	DL	B630790 BVX759 ReWork
Perfluorobutanoic acid	N/A*****		N/A*****	2	N/A*****	2	N/A*****
Perfluorobutane Sulfonate (PFBS)	0	2	0	2	0	2	0
Perfluorodecane Sulfonate	N/A*****		N/A*****	2	N/A*****	2	N/A*****
Perfluoroheptanoic Acid (PFHpA)	0	2	0	2	0	2	0
Perfluoroheptane sulfonate	N/A*****		N/A*****	2	N/A*****	2	N/A*****
Perfluorohexanoic Acid (PFHxA)	N/A*****		N/A*****	2	N/A*****	2	N/A*****
Perfluorohexane Sulfonate (PFHxS)	0	2	0	2	0.74500	2	0
Perfluorononanoic Acid (PFNA)	0	2	0	2	0	2	0
Perfluoropentanoic Acid (PFPeA)	N/A*****		N/A*****	2	N/A*****	2	N/A*****
Perfluorotetradecanoic Acid	N/A*****		N/A*****	2	N/A*****	2	N/A*****
Perfluorotridecanoic Acid	N/A*****		N/A*****	2	N/A*****	2	N/A*****
Perfluoroundecanoic Acid (PFUnA)	N/A*****		N/A*****	2	N/A*****	2	N/A*****
Perfluorodecanoic Acid (PFDA)	N/A*****		N/A*****	2	N/A*****	2	N/A*****
Perfluorododecanoic Acid (PFDoA)	N/A*****		N/A*****	2	N/A*****	2	N/A*****
Perfluoro-n-Octanoic Acid (PFOA)	0	2	0	2	0	2	0
Perfluorooctane Sulfonate (PFOS)	0	2	0	2	1.47000	2	0
13C2-perfluorotetradecanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C4-Perfluorobutanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C5-Perfluorononanoic acid	103.		104.		78.5		94.4
13C2-Perfluorodecanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C2-Perfluorododecanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C2-Perfluorohexanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C2-Perfluoroundecanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C4-Perfluoroheptanoic acid	102.		116.		84.0		105.
13C4-Perfluorooctanoic acid	114.		104.		85.7		107.
13C4-Perfluorooctanesulfonate	107.		110.		70.7		103.
13C5-Perfluoropentanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
18O2-Perfluorohexanesulfonate	98.7		103.		84.9		101.

Low level PFOS and PFOA in water - Water
ng/L

Parameter Name	DL	B630790 BVX760 ReWork	DL	B630790 BVX761 ReWork	DL	B630790 BVX762 ReWork	DL
Perfluorobutanoic acid	2	N/A*****	2	N/A*****	2	N/A*****	2
Perfluorobutane Sulfonate (PFBS)	2	6.52000	2	0	2	18.70000	2
Perfluorodecane Sulfonate	2	N/A*****	2	N/A*****	2	N/A*****	2
Perfluoroheptanoic Acid (PFHpA)	2	5.80000	2	0	2	6.96000	2
Perfluoroheptane sulfonate	2	N/A*****	2	N/A*****	2	N/A*****	2
Perfluorohexanoic Acid (PFHxA)	2	N/A*****	2	N/A*****	2	N/A*****	2
Perfluorohexane Sulfonate (PFHxS)	2	21.90000	2	0	2	363	20
Perfluorononanoic Acid (PFNA)	2	1.06000	2	0	2	0.80300	2
Perfluoropentanoic Acid (PFPeA)	2	N/A*****	2	N/A*****	2	N/A*****	2
Perfluorotetradecanoic Acid	2	N/A*****	2	N/A*****	2	N/A*****	2
Perfluorotridecanoic Acid	2	N/A*****	2	N/A*****	2	N/A*****	2
Perfluoroundecanoic Acid (PFUnA)	2	N/A*****	2	N/A*****	2	N/A*****	2
Perfluorodecanoic Acid (PFDA)	2	N/A*****	2	N/A*****	2	N/A*****	2
Perfluorododecanoic Acid (PFDoA)	2	N/A*****	2	N/A*****	2	N/A*****	2
Perfluoro-n-Octanoic Acid (PFOA)	2	30.40000	2	0	2	87.00000	2
Perfluorooctane Sulfonate (PFOS)	2	44.40000	2	0	2	576.00000	20
13C2-perfluorotetradecanoic acid		N/A*****		N/A*****		N/A*****	
13C4-Perfluorobutanoic acid		N/A*****		N/A*****		N/A*****	
13C5-Perfluorononanoic acid		74.5		106.		91.3	
13C2-Perfluorodecanoic acid		N/A*****		N/A*****		N/A*****	
13C2-Perfluorododecanoic acid		N/A*****		N/A*****		N/A*****	
13C2-Perfluorohexanoic acid		N/A*****		N/A*****		N/A*****	
13C2-Perfluoroundecanoic acid		N/A*****		N/A*****		N/A*****	
13C4-Perfluoroheptanoic acid		76.0		108.		83.2	
13C4-Perfluorooctanoic acid		81.3		107.		95.5	
13C4-Perfluorooctanesulfonate		72.3		105.		105.	
13C5-Perfluoropentanoic acid		N/A*****		N/A*****		N/A*****	
18O2-Perfluorohexanesulfonate		74.3		95.3		105.	

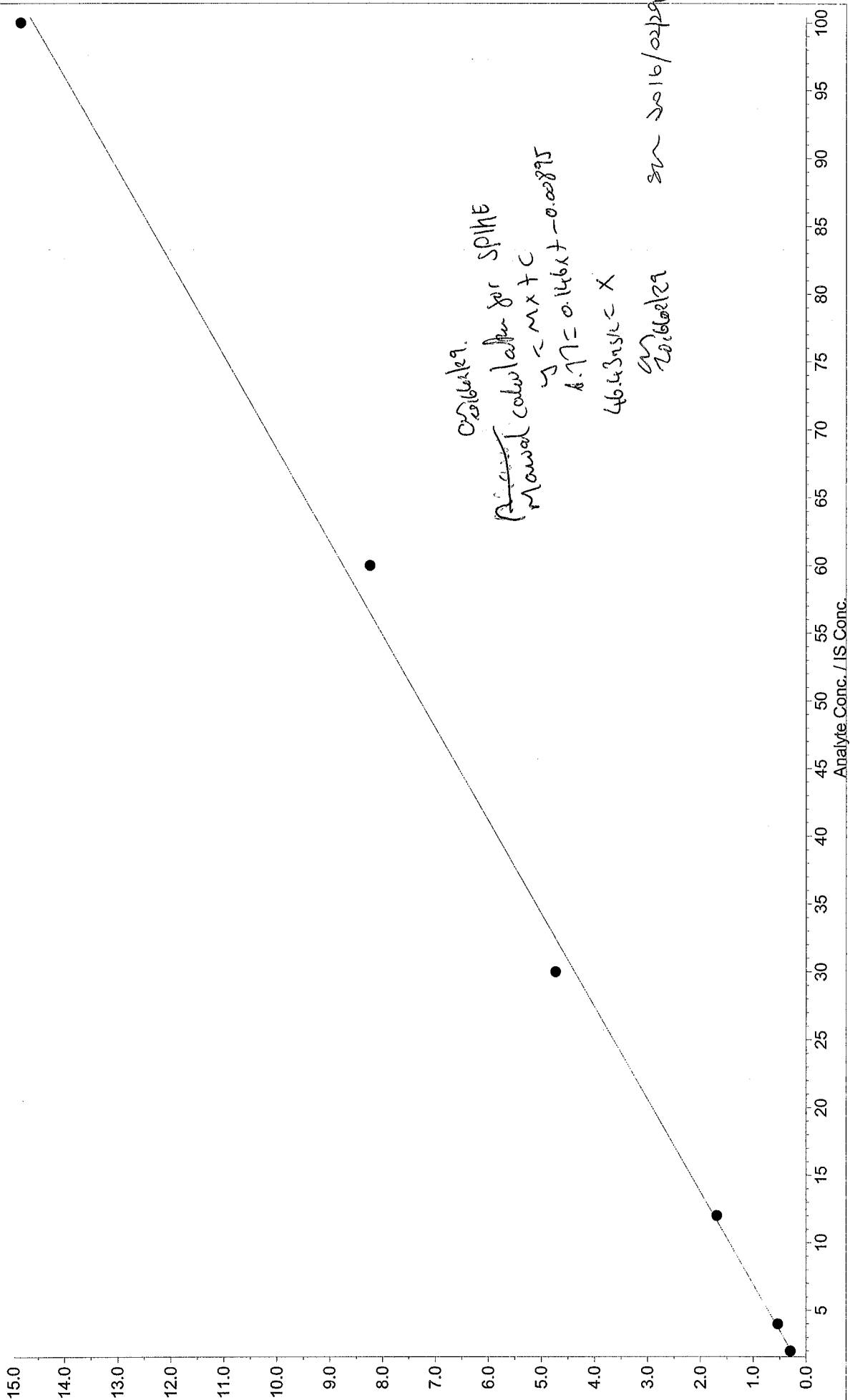
Parameter Name	B630790 BVX763 ReWork	DL	B630790 BVX764 ReWork	DL	B630790 BVX765 ReWork	DL	B630790 BVX766 ReWork
Perfluorobutanoic acid	N/A*****	2	N/A*****	2	N/A*****	2	N/A*****
Perfluorobutane Sulfonate (PFBS)	0	2	0	2	0	2	0
Perfluorodecane Sulfonate	N/A*****	2	N/A*****	2	N/A*****	2	N/A*****
Perfluoroheptanoic Acid (PFHpA)	0	2	0	2	0	2	0
Perfluoroheptane sulfonate	N/A*****	2	N/A*****	2	N/A*****	2	N/A*****
Perfluorohexanoic Acid (PFHxA)	N/A*****	2	N/A*****	2	N/A*****	2	N/A*****
Perfluorohexane Sulfonate (PFHxS)	0	2	0	2	0	2	0
Perfluorononanoic Acid (PFNA)	0.15700	2	0	2	0	2	0
Perfluoropentanoic Acid (PFPeA)	N/A*****	2	N/A*****	2	N/A*****	2	N/A*****
Perfluorotetradecanoic Acid	N/A*****	2	N/A*****	2	N/A*****	2	N/A*****
Perfluorotridecanoic Acid	N/A*****	2	N/A*****	2	N/A*****	2	N/A*****
Perfluoroundecanoic Acid (PFUnA)	N/A*****	2	N/A*****	2	N/A*****	2	N/A*****
Perfluorodecanoic Acid (PFDA)	N/A*****	2	N/A*****	2	N/A*****	2	N/A*****
Perfluorododecanoic Acid (PFDoA)	N/A*****	2	N/A*****	2	N/A*****	2	N/A*****
Perfluoro-n-Octanoic Acid (PFOA)	0	2	0	2	0	2	0
Perfluorooctane Sulfonate (PFOS)	0	2	0	2	0	2	0
13C2-perfluorotetradecanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C4-Perfluorobutanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C5-Perfluorononanoic acid	119.		68.3		105.		81.4
13C2-Perfluorodecanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C2-Perfluorododecanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C2-Perfluorohexanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C2-Perfluoroundecanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
13C4-Perfluoroheptanoic acid	104.		68.0		105.		86.0
13C4-Perfluorooctanoic acid	125.		68.1		113.		90.8
13C4-Perfluorooctanesulfonate	102.		52.8		107.		80.8
13C5-Perfluoropentanoic acid	N/A*****		N/A*****		N/A*****		N/A*****
18O2-Perfluorohexanesulfonate	101.		67.2		106.		87.6

Low level PFOS and PFOA in water - Water
ng/L

Parameter Name	DL	B630790 BVX767 ReWork	DL	B630790 BVX768 ReWork	DL	RDL	MDL
Perfluorobutanoic acid	2	N/A*****	2	N/A*****	2	2	0.41
Perfluorobutane Sulfonate (PFBS)	2	0	2	0	2	2	0.27
Perfluorodecane Sulfonate	2	N/A*****	2	N/A*****	2	2	0.38
Perfluoroheptanoic Acid (PFHpA)	2	0	2	0	2	2	0.39
Perfluoroheptane sulfonate	2	N/A*****	2	N/A*****	2	2	0.4
Perfluorohexanoic Acid (PFHxA)	2	N/A*****	2	N/A*****	2	2	0.42
Perfluorohexane Sulfonate (PFHxS)	2	0	2	0	2	2	0.4
Perfluorononanoic Acid (PFNA)	2	0	2	0	2	2	0.33
Perfluoropentanoic Acid (PFPeA)	2	N/A*****	2	N/A*****	2	2	0.46
Perfluorotetradecanoic Acid	2	N/A*****	2	N/A*****	2	2	0.61
Perfluorotridecanoic Acid	2	N/A*****	2	N/A*****	2	2	0.6
Perfluoroundecanoic Acid (PFUnA)	2	N/A*****	2	N/A*****	2	2	0.5
Perfluorodecanoic Acid (PFDA)	2	N/A*****	2	N/A*****	2	2	0.24
Perfluorododecanoic Acid (PFDoA)	2	N/A*****	2	N/A*****	2	2	0.63
Perfluoro-n-Octanoic Acid (PFOA)	2	0	2	0	2	2	0.39
Perfluorooctane Sulfonate (PFOS)	2	0	2	0	2	2	0.3
13C2-perfluorotetradecanoic acid		N/A*****		N/A*****			
13C4-Perfluorobutanoic acid		N/A*****		N/A*****			
13C5-Perfluorononanoic acid		121.		80.3			
13C2-Perfluorodecanoic acid		N/A*****		N/A*****			
13C2-Perfluorododecanoic acid		N/A*****		N/A*****			
13C2-Perfluorohexanoic acid		N/A*****		N/A*****			
13C2-Perfluoroundecanoic acid		N/A*****		N/A*****			
13C4-Perfluoroheptanoic acid		120.		79.3			
13C4-Perfluorooctanoic acid		130.		78.5			
13C4-Perfluorooctanesulfonate		1136.		74.7			
13C5-Perfluoropentanoic acid		N/A*****		N/A*****			
18O2-Perfluorohexanesulfonate		117.		79.0			

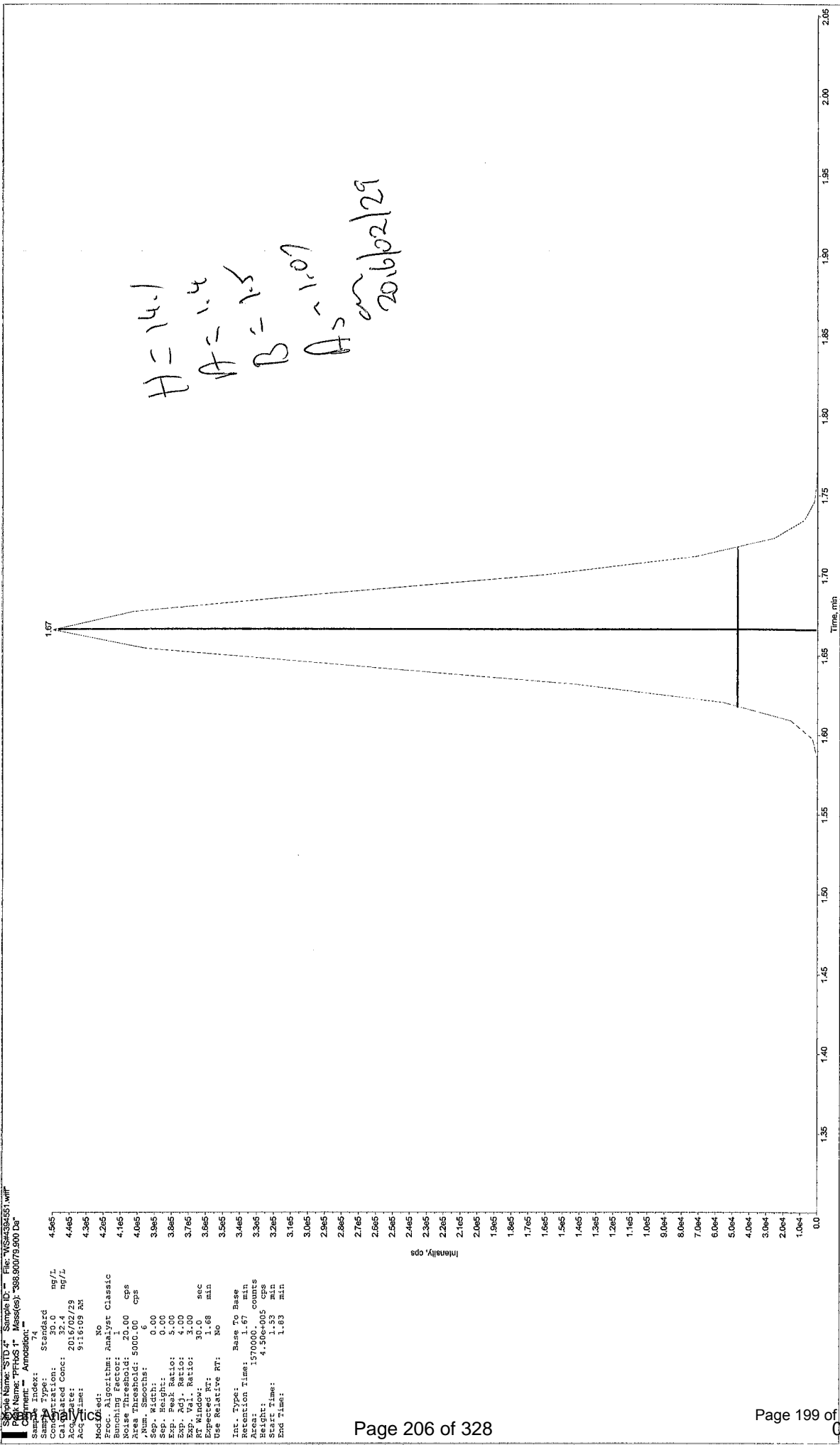
Parameter Name	IDL						
Perfluorobutanoic acid	0						
Perfluorobutane Sulfonate (PFBS)	0						
Perfluorodecane Sulfonate	0						
Perfluoroheptanoic Acid (PFHpA)	0						
Perfluoroheptane sulfonate	0						
Perfluorohexanoic Acid (PFHxA)	0						
Perfluorohexane Sulfonate (PFHxS)	0						
Perfluorononanoic Acid (PFNA)	0						
Perfluoropentanoic Acid (PFPeA)	0						
Perfluorotetradecanoic Acid	0						
Perfluorotridecanoic Acid	0						
Perfluoroundecanoic Acid (PFUnA)	0						
Perfluorodecanoic Acid (PFDA)	0						
Perfluorododecanoic Acid (PFDoA)	0						
Perfluoro-n-Octanoic Acid (PFOA)	0						
Perfluorooctane Sulfonate (PFOS)	0						
13C2-perfluorotetradecanoic acid							
13C4-Perfluorobutanoic acid							
13C5-Perfluorononanoic acid							
13C2-Perfluorodecanoic acid							
13C2-Perfluorododecanoic acid							
13C2-Perfluorohexanoic acid							
13C2-Perfluoroundecanoic acid							
13C4-Perfluoroheptanoic acid							
13C4-Perfluorooctanoic acid							
13C4-Perfluorooctanesulfonate							
13C5-Perfluoropentanoic acid							
18O2-Perfluorohexanesulfonate							

PFCA 1: "Linear" Regression ("1 / x" weighting): y = 0.146 x + -0.00895 (r = 0.9986)



Results Path: \\miss-netapp2\lcms3\lcms3\Analyst Data\Projects\Enviro\PFOS\Results\PFC_Water_160226_4394551_ULow.rdb

Printing Date: Monday, February 29, 2016



Sample Name: STD.4 Sample ID: File: VWS4394551.W
 Client Name: PFC01.M Mess(es): 388.80079.900 Da
 Method:

Sample Index: Amondan.74
 Sample Type: Standard
 Concentration: 30.0 ng/L
 Calibrated Conc: 30.37278 ng/L
 Acquisition Date: 9/16/09 AM
 Acquisition Time: 4:38P
 Mod.Kit: No
 Proc. Algorithm: Analyst Classic
 Base Peak: 4.165
 Noise Threshold: 20.00 cps
 Area Threshold: 5000.00 cps
 Num. Smoother: 6
 Sep. Width: 0.00
 Exp. Ratio: 5.00
 Exp. Adj. Ratio: 4.00
 EXP. Val. Ratio: 3.00
 RF Window: 30.0 sec
 Repetitions: 68 min
 Use Relative RT: No
 3.525
 3.465
 Retention Time: 1.67 min
 Counts: 33265
 Height: 4.5654005
 Start Time: 1.53 min
 End Time: 1.83 min

Report Name: Worksheet - Parameter Lists

Report Date: 2016/02/25

Test Code: PFOSLOW-W

Worksheet Number: 4394551

<u>Sample Number</u>	<u>Parameter</u>
BVX757-01	Perfluorobutane Sulfonate (PFBS)
BVX758-01	Perfluoroheptanoic Acid (PFHpA)
BVX759-01	Perfluorohexane Sulfonate (PFHxS)
BVX760-01	Perfluorononanoic Acid (PFNA)
BVX761-01	Perfluoro-n-Octanoic Acid (PFOA)
BVX762-01	Perfluorooctane Sulfonate (PFOS)
BVX763-01	
BVX764-01	
BVX765-01	
BVX766-01	
BVX767-01	
BVX768-01	

WorkSheet 4394551 Instrument Sequences

1.	 4394551:MTRX SPK	MTRX SPK
2.	 4394551:MTRX SPK:D1	MTRX SPK :D1
3.	 4394551:SPIKE	SPIKE
4.	 4394551:BLANK	BLANK
5.	 4394551:BVX757-01	OF-FB62-0216
6.	 4394551:BVX758-01	OF-RW62-0216
7.	 4394551:BVX759-01	OF-FB63-0216
8.	 4394551:BVX760-01	OF-RW63-0216
9.	 4394551:BVX761-01	OF-FB59-0216
10.	 4394551:BVX762-01	OF-RW59-0216
11.	 4394551:BVX763-01	OF-FB50-0216
12.	 4394551:BVX764-01	OF-RW50-0216
13.	 4394551:BVX765-01	OF-FB34-0216
14.	 4394551:BVX766-01	OF-RW34-0216
15.	 4394551:BVX767-01	OF-FB38-0216
16.	 4394551:BVX768-01	OF-RW38-0216

Worksheet Reagent Tracking Record

Worksheet # 4394551

Surrogate/Spike solutions	√	Solution ID #	Conc.	Blk-Spk		MS		Samples	
				Solid	Liquid	Solid	Liquid	Solid	Liquid
DGT Spike			100 ug/mL	60	30	60	30	NA	NA
Diquat Dibromide			50 ug/mL	NA	350	NA	350	NA	NA
Explosives Spiking solution A			20 ug/mL	250	100	250	100	NA	NA
Explosives Spiking solution B			20/80 ug/mL	250	100	250	100	NA	NA
Formaldehyde Spike			100 ug/mL	25	25	25	25	NA	NA
Glyphosate Spike			25 ug/mL	500	20	500	20	NA	NA
Nonylphenol Ethoxylate Spike			100 ug/mL	100	100	100	100	NA	NA
Nonylphenol Spike			10 ug/mL	100	100	100	100	NA	NA
Paraquat Cl Tetrahydrate			20 ug/mL	NA	125	NA	125	NA	NA
Perchlorate Standard Spike			10 ng/mL	NA	100	NA	100	NA	NA
Perchlorate Standard Spike			500 ng/mL	40	NA	40	NA	NA	NA
Perchlorate O-18 Internal Standard			0.10 ng/uL	20	20	20	20	20	20
Morpholine Intermediate Std.			5 ug/mL	NA	50	NA	20	NA	NA
Morpholine-D8 Internal Standard			10 ug/mL	NA	100	NA	100	NA	100
Comp. PFC Spiking Solution A			1ug/mL	62.5	NA	62.5	NA	NA	NA
Comp. PFC Spiking Solution B			250 ng/mL	NA	40	75	NA	40	75
Comp. PFC Spiking Solution C	✓	SK 6229	100 ng/mL	125	NA	125	NA	NA	NA
Internal Standard Solution A	✓	SI 6010 (414)	50 ng/mL	50	100	50	100	50	100
Internal Standard Solution B			250ng/mL	50	NA	50	NA	50	NA
ICV/CCV	✓	I 4076	µg/mL		62.5				

Solvent/Reagent	Supplier	√	Lot No.	Date Opened	Solvent/Reagent	√	Lot No.	Date Opened/ Prepared	*Spiked by:
DCM	Fisher				50% NaOH				mmw
Hexane	Fisher				20mM TBAS				Spike Date
Acetone	Fisher				o-Phosphoric Acid				2016/02/25
Ottawa Sand	Fisher				Borax				Spike Syringe ID#
Methanol	Fisher	✓	SHB6 6076	2016/01/25	Calcium Chloride				M23487B
2-Propanol (IPA)	Fisher				EDTA				Int. Std Syringe ID#
Acetonitrile	Fisher				Phosphate Buffer				M23487B
MTBE	Fisher				Sodium Thiosulphate				*Spiking Witnessed by:
Sodium Sulfate	Fisher				DNPH				SSV

Recon Solution	Supplier	√	Lot No.	Date Opened	Solvent/Reagent	√	Lot No.	Date Opened/ Prepared	Final pH
DCM:Ethyl Ether (75:25)					5M Acetate Buffer				
Hexane:IPA (98:2)					FMOC				
2% Formic Acid					0.25M Na ₂ CO ₃				
0.2% Formic Acid					0.5M TBAS				
0.05M KOH					1% NH ₄ OH 0.2% NH ₄ OH				
0.05M HCl					Leachate Fluid				
					Reagent Water	✓	SHB6 5722	2016/02/25	

Equipment	ID#	√	Equipment	ID#	√	Equipment	Lot #	Bottle Tracking
Pipettor 1mL	P29746D	✓	SPE Cartridge	DD263531A	✓	10 mL Serological Pipet		Bottle# 14991
Pipettor 200µL	P16609D	✓	Filter			QC Balance ID		Cap# 14443
Dispenser 100 µL	M23487B	✓	Centrifuge			Thermometer ID &Temp		Systems plus Lot#
Syringe			Sonicator					16-01-06

Comments: led: 40 (H₂O: MeOH) PNCU 87-190
Inj. I.S. (20µL) SI 6039

Worksheet: 4394551 Dilution and Column Cleanup Worksheet

Job Number	Sample ID	Sample: Initial Final Volume	Dilution Required	Sample added mL	Solvent Added mL	Int Stan Added uL	New Effective Final Volume	INITIAL DATE	Column Clean Up
B630790	BVX762	1X	10X	12.5	112.5	15	125 mL	mm 20/09/106	-
	BVX762	1X	50X	2.5	122.5	15	125 mL	mm 20/09/106	-
<p>Std used: SHBG STD ✓</p> <p>Pipette: (10mL) J1629JB</p> <p>10 mL ref. bottle.</p>									

PFOSLOW-W Rework

Sin Chii Chia

Sent: Wednesday, February 24, 2016 1:46 PM

To: Melinda Molina; Emily Henderson; Geoffrey Sanchez

Cc: Colm McNamara; Adam Robinson; Cristian Ginj; Araya Belay

Hello

All samples in WS4390179 will have to be reworked due to failing QCs.

Please also include dilutions for the following samples:

BWH244 : 1x & 10x

BVX762 : 1x, 10x & 50x

Thank you.

SIN CHII CHIA, B.Sc.

Scientific Specialist

Office 905 817 5700, ext. 4021

Toll free 800 563 6266 / Fax 905 817 5777

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Project: D:\Analyst Data\Projects\Enviro\PFOS Batch:PFC_160226 Tab:Sample Set:SET1 AcqMethod:PFC_Water_Low.dam
Sample

Sample	Sample Name	Rack Code	Rack Position	Plate Code	Plate Position	Vial Position	Data File	Inj. Volume (ul)
1	RNISE	2 Well Plate	1	*54VialPlate	2	1	PFC_160226\WSH4394551	3.000
2	4394551-BLANK	2 Well Plate	1	*54VialPlate	2	2	PFC_160226\WSH4394551	3.000
3	STD 1	2 Well Plate	1	*54VialPlate	2	3	PFC_160226\WSH4394551	3.000
4	STD 2	2 Well Plate	1	*54VialPlate	2	4	PFC_160226\WSH4394551	3.000
5	STD 3	2 Well Plate	1	*54VialPlate	2	5	PFC_160226\WSH4394551	3.000
6	STD 4	2 Well Plate	1	*54VialPlate	2	6	PFC_160226\WSH4394551	3.000
7	STD 5	2 Well Plate	1	*54VialPlate	2	7	PFC_160226\WSH4394551	3.000
8	STD 6	2 Well Plate	1	*54VialPlate	2	8	PFC_160226\WSH4394551	3.000
9	ICV	2 Well Plate	1	*54VialPlate	2	9	PFC_160226\WSH4394551	3.000
10	CCV	2 Well Plate	1	*54VialPlate	2	6	PFC_160226\WSH4394551	3.000
11	4394551-MTRX SPK	2 Well Plate	1	*54VialPlate	2	10	PFC_160226\WSH4394551	3.000
12	4394551-MTRX SPK:D1	2 Well Plate	1	*54VialPlate	2	11	PFC_160226\WSH4394551	3.000
13	4394551-SPKE	2 Well Plate	1	*54VialPlate	2	12	PFC_160226\WSH4394551	3.000
14	4394551-BVX757-01	2 Well Plate	1	*54VialPlate	2	13	PFC_160226\WSH4394551	3.000
15	4394551-BVX758-01	2 Well Plate	1	*54VialPlate	2	14	PFC_160226\WSH4394551	3.000
16	4394551-BVX759-01	2 Well Plate	1	*54VialPlate	2	15	PFC_160226\WSH4394551	3.000
17	4394551-BVX760-01	2 Well Plate	1	*54VialPlate	2	16	PFC_160226\WSH4394551	3.000
18	4394551-BVX761-01	2 Well Plate	1	*54VialPlate	2	17	PFC_160226\WSH4394551	3.000
19	4394551-BVX762-01(50X)	2 Well Plate	1	*54VialPlate	2	18	PFC_160226\WSH4394551	3.000
20	4394551-BVX763-01	2 Well Plate	1	*54VialPlate	2	19	PFC_160226\WSH4394551	3.000
21	4394551-BVX764-01	2 Well Plate	1	*54VialPlate	2	20	PFC_160226\WSH4394551	3.000
22	4394551-BVX765-01	2 Well Plate	1	*54VialPlate	2	21	PFC_160226\WSH4394551	3.000
23	4394551-BVX766-01	2 Well Plate	1	*54VialPlate	2	22	PFC_160226\WSH4394551	3.000
24	CCV	2 Well Plate	1	*54VialPlate	2	6	PFC_160226\WSH4394551	3.000
25	4394551-BVX767-01	2 Well Plate	1	*54VialPlate	2	23	PFC_160226\WSH4394551	3.000
26	4394551-BVX768-01	2 Well Plate	1	*54VialPlate	2	24	PFC_160226\WSH4394551	3.000
27	4394551-BVX762-01(10X)	2 Well Plate	1	*54VialPlate	2	25	PFC_160226\WSH4394551	3.000
28	4394551-BVX762-01	2 Well Plate	1	*54VialPlate	2	26	PFC_160226\WSH4394551	3.000
29	CCV	2 Well Plate	1	*54VialPlate	2	6	PFC_160226\WSH4394558	3.000
30	4394558-BLANK	2 Well Plate	1	*54VialPlate	2	27	PFC_160226\WSH4394558	3.000
31	4394558-MTRX SPK	2 Well Plate	1	*54VialPlate	2	28	PFC_160226\WSH4394558	3.000
32	4394558-MTRX SPK:D1	2 Well Plate	1	*54VialPlate	2	29	PFC_160226\WSH4394558	3.000
33	4394558-SPKE	2 Well Plate	1	*54VialPlate	2	30	PFC_160226\WSH4394558	3.000
34	4394558-BVX747-01	2 Well Plate	1	*54VialPlate	2	31	PFC_160226\WSH4394558	3.000
35	4394558-BVX752-01	2 Well Plate	1	*54VialPlate	2	32	PFC_160226\WSH4394558	3.000
36	4394558-BVX753-01	2 Well Plate	1	*54VialPlate	2	33	PFC_160226\WSH4394558	3.000
37	4394558-BVX754-01	2 Well Plate	1	*54VialPlate	2	34	PFC_160226\WSH4394558	3.000
38	4394558-BVX755-01	2 Well Plate	1	*54VialPlate	2	35	PFC_160226\WSH4394558	3.000
39	4394558-BVX756-01	2 Well Plate	1	*54VialPlate	2	36	PFC_160226\WSH4394558	3.000
40	4394558-BVX770-01(10X)	2 Well Plate	1	*54VialPlate	2	37	PFC_160226\WSH4394558	3.000
41	4394558-BVX771-01(10X)	2 Well Plate	1	*54VialPlate	2	38	PFC_160226\WSH4394558	3.000
42	4394558-BVX844-01(50X)	2 Well Plate	1	*54VialPlate	2	39	PFC_160226\WSH4394558	3.000
43	4394558-BVX845-01(50X)	2 Well Plate	1	*54VialPlate	2	40	PFC_160226\WSH4394558	3.000
44	CCV	2 Well Plate	1	*54VialPlate	2	6	PFC_160226\WSH4394558	3.000
45	RNISE	2 Well Plate	1	*54VialPlate	2	1	PFC_160226\WSH4395833	3.000
46	4395833-BLANK	2 Well Plate	1	*54VialPlate	1	1	PFC_160226\WSH4395833	3.000
47	STD 1	2 Well Plate	1	*54VialPlate	1	2	PFC_160226\WSH4395833	3.000
48	STD 2	2 Well Plate	1	*54VialPlate	1	3	PFC_160226\WSH4395833	3.000
49	STD 3	2 Well Plate	1	*54VialPlate	1	4	PFC_160226\WSH4395833	3.000
50	STD 4	2 Well Plate	1	*54VialPlate	1	5	PFC_160226\WSH4395833	3.000
51	STD 5	2 Well Plate	1	*54VialPlate	1	6	PFC_160226\WSH4395833	3.000
52	STD 6	2 Well Plate	1	*54VialPlate	1	7	PFC_160226\WSH4395833	3.000
53	ICV	2 Well Plate	1	*54VialPlate	1	8	PFC_160226\WSH4395833	3.000
54	CCV	2 Well Plate	1	*54VialPlate	1	5	PFC_160226\WSH4395833	3.000
55	4395833-MTRX SPK	2 Well Plate	1	*54VialPlate	1	9	PFC_160226\WSH4395833	3.000
56	4395833-MTRX SPK:D1	2 Well Plate	1	*54VialPlate	1	10	PFC_160226\WSH4395833	3.000
57	4395833-SPKE	2 Well Plate	1	*54VialPlate	1	11	PFC_160226\WSH4395833	3.000
58	4395833-BVX702-01	2 Well Plate	1	*54VialPlate	1	12	PFC_160226\WSH4395833	3.000
59	4395833-BVX703-01	2 Well Plate	1	*54VialPlate	1	13	PFC_160226\WSH4395833	3.000
60	4395833-BVX704-01	2 Well Plate	1	*54VialPlate	1	14	PFC_160226\WSH4395833	3.000
61	4395833-BVX705-01	2 Well Plate	1	*54VialPlate	1	15	PFC_160226\WSH4395833	3.000
62	4395833-BVX706-01	2 Well Plate	1	*54VialPlate	1	16	PFC_160226\WSH4395833	3.000
63	4395833-BVX707-01	2 Well Plate	1	*54VialPlate	1	17	PFC_160226\WSH4395833	3.000
64	4395833-BVX708-01	2 Well Plate	1	*54VialPlate	1	18	PFC_160226\WSH4395833	3.000
65	4395833-BVX709-01	2 Well Plate	1	*54VialPlate	1	19	PFC_160226\WSH4395833	3.000
66	4395833-BVX710-01	2 Well Plate	1	*54VialPlate	1	20	PFC_160226\WSH4395833	3.000
67	4395833-BVX711-01	2 Well Plate	1	*54VialPlate	1	21	PFC_160226\WSH4395833	3.000
68	CCV	2 Well Plate	1	*54VialPlate	1	5	PFC_160226\WSH4395833	3.000
69	4395833-BVX712-01	2 Well Plate	1	*54VialPlate	1	22	PFC_160226\WSH4395833	3.000
70	4395833-BVX713-01	2 Well Plate	1	*54VialPlate	1	23	PFC_160226\WSH4395833	3.000
71	4395833-BVX714-01 (10x)	2 Well Plate	1	*54VialPlate	1	24	PFC_160226\WSH4395833	3.000
72	4395833-BVX715-01	2 Well Plate	1	*54VialPlate	1	25	PFC_160226\WSH4395833	3.000
73	4395833-BVX716-01	2 Well Plate	1	*54VialPlate	1	26	PFC_160226\WSH4395833	3.000
74	4395833-BVX717-01 (10x)	2 Well Plate	1	*54VialPlate	1	27	PFC_160226\WSH4395833	3.000
75	4395833-BVX718-01	2 Well Plate	1	*54VialPlate	1	28	PFC_160226\WSH4395833	3.000
76	4395833-BVX719-01	2 Well Plate	1	*54VialPlate	1	29	PFC_160226\WSH4395833	3.000
77	4395833-BVX720-01	2 Well Plate	1	*54VialPlate	1	30	PFC_160226\WSH4395833	3.000
78	4395833-BVX721-01	2 Well Plate	1	*54VialPlate	1	31	PFC_160226\WSH4395833	3.000
79	CCV	2 Well Plate	1	*54VialPlate	1	5	PFC_160226\WSH4395833	3.000
80	4395833-BVX714-01	2 Well Plate	1	*54VialPlate	1	32	PFC_160226\WSH4395833	3.000
81	4395833-BVX717-01	2 Well Plate	1	*54VialPlate	1	33	PFC_160226\WSH4395833	3.000
82	CCV	2 Well Plate	1	*54VialPlate	1	5	PFC_160226\WSH4395833	3.000

Column # 123

MPA = soln #513, FSRG17

MPB = Methanol
Fisher lot # 158013

run 2016/02/26

Sample ID	Acquisition Date	Acquisition Method	File Name	Rack Type	Rack Position	Vial Position	Plate Type	Plate Position
1	2016/02/29 9:00:47 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	3	*54VialPlate*	2
2	2016/02/29 9:05:58 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	4	*54VialPlate*	2
3	2016/02/29 9:11:03 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	5	*54VialPlate*	2
4	2016/02/29 9:16:09 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	6	*54VialPlate*	2
5	2016/02/29 9:21:15 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	7	*54VialPlate*	2
6	2016/02/29 9:26:22 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	8	*54VialPlate*	2
7	2016/02/29 9:41:39 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	9	*54VialPlate*	2
8	2016/02/29 11:36:34 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	6	*54VialPlate*	2
9	2016/02/29 11:41:40 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	2	*54VialPlate*	2
10	2016/02/29 11:46:46 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	10	*54VialPlate*	2
11	2016/02/29 11:51:52 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	11	*54VialPlate*	2
12	2016/02/29 11:56:58 AM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	12	*54VialPlate*	2
13	2016/02/29 12:02:04 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	13	*54VialPlate*	2
14	2016/02/29 12:07:10 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	14	*54VialPlate*	2
15	2016/02/29 12:12:16 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	15	*54VialPlate*	2
16	2016/02/29 12:17:22 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	16	*54VialPlate*	2
17	2016/02/29 12:22:29 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	17	*54VialPlate*	2
18	2016/02/29 12:27:35 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	18	*54VialPlate*	2
19	2016/02/29 12:32:41 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	19	*54VialPlate*	2
20	2016/02/29 12:37:47 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	20	*54VialPlate*	2
21	2016/02/29 12:42:53 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	21	*54VialPlate*	2
22	2016/02/29 12:47:59 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	22	*54VialPlate*	2
23	2016/02/29 12:53:05 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	6	*54VialPlate*	2
24	2016/02/29 12:58:10 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	23	*54VialPlate*	2
25	2016/02/29 1:03:17 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	24	*54VialPlate*	2
26	2016/02/29 1:08:23 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	25	*54VialPlate*	2
27	2016/02/29 1:13:29 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	26	*54VialPlate*	2
28	2016/02/29 1:18:35 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	6	*54VialPlate*	2
29	2016/02/29 1:23:41 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	10	*54VialPlate*	2
30	2016/02/29 1:28:47 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	11	*54VialPlate*	2
31	2016/02/29 1:33:53 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	12	*54VialPlate*	2
32	2016/02/29 1:38:59 PM	PFC_Water_Low.dam	PFC_160226\WS#4394551.wiff	2 Well Plates	1	6	*54VialPlate*	2

Maxxam Analytics



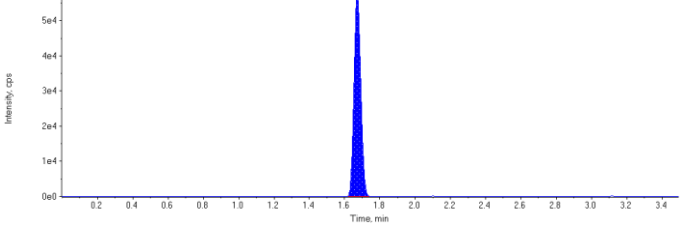
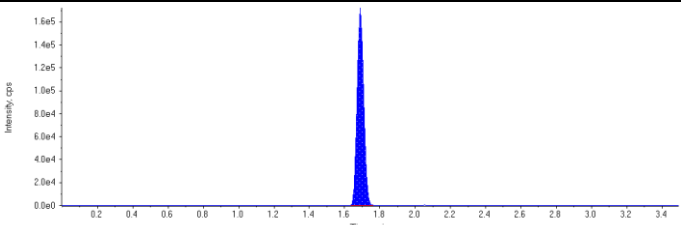
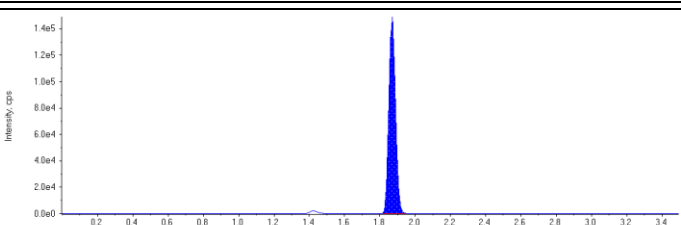
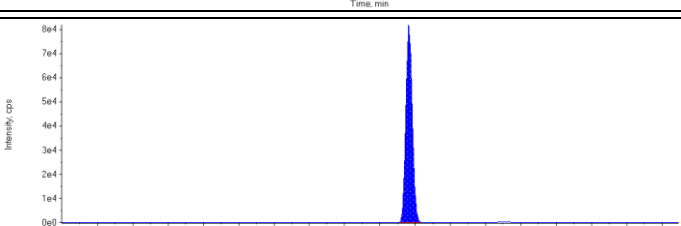
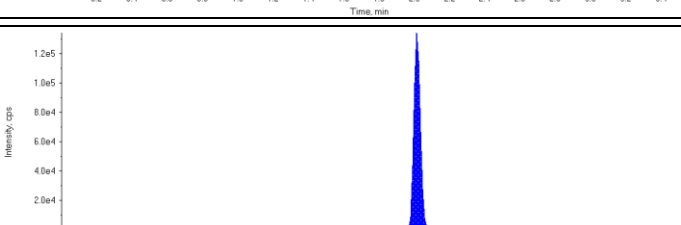
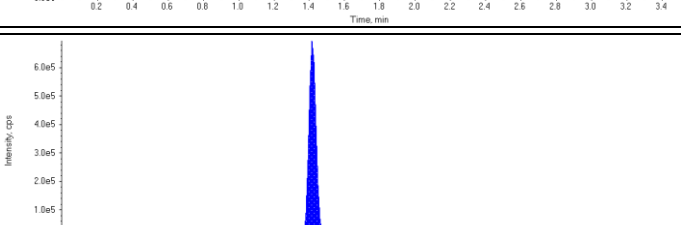
5. Initial Calibration

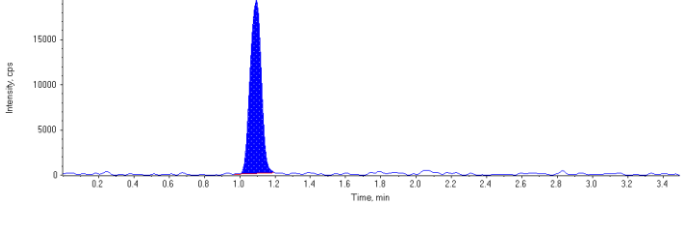
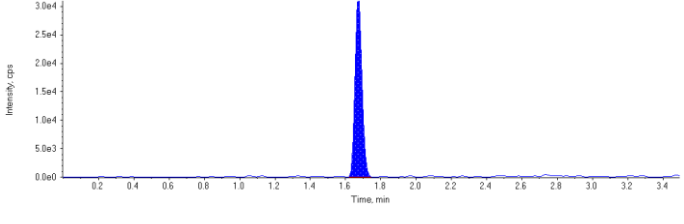
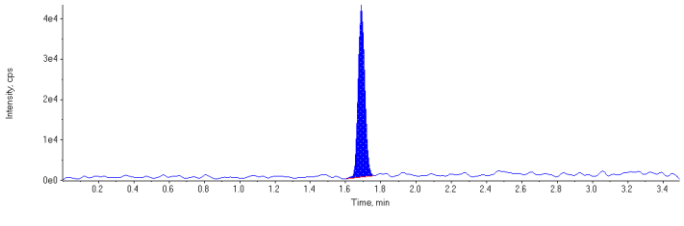
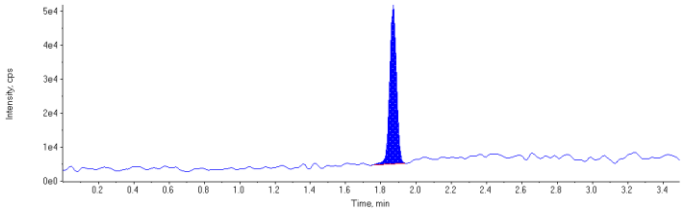
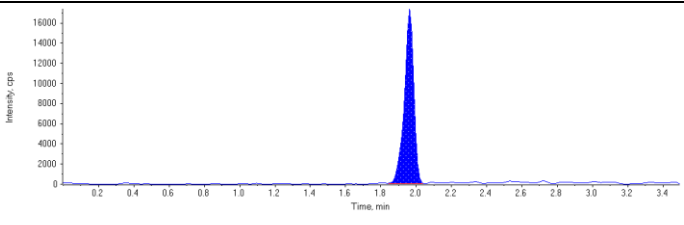
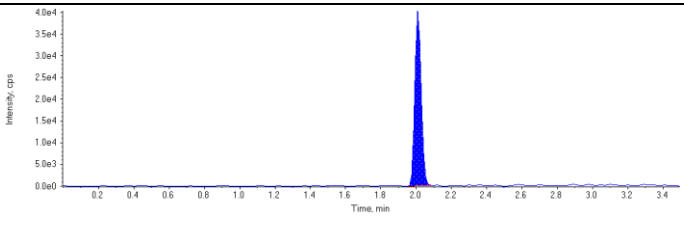
Maxxam Analytics International
6740 Campobello Rd
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

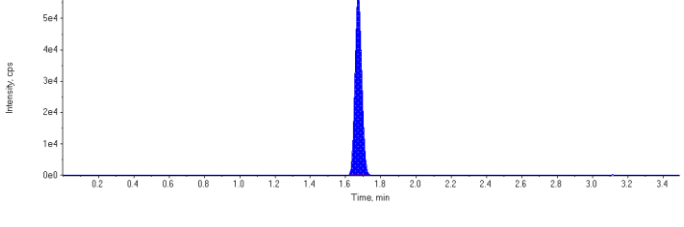
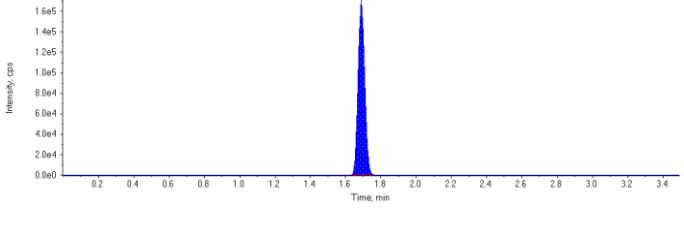
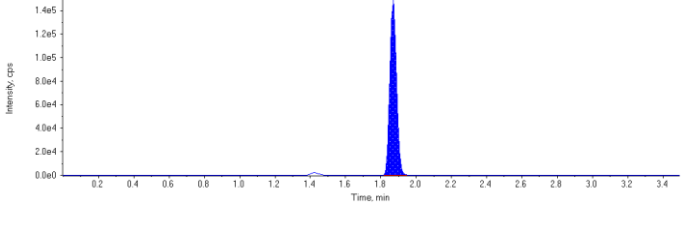
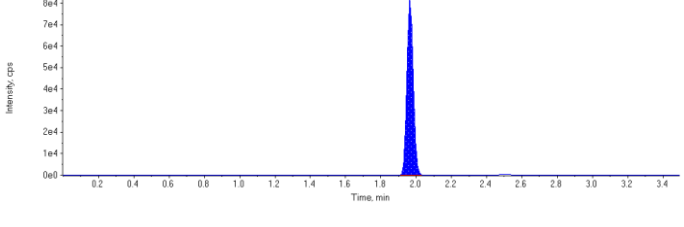
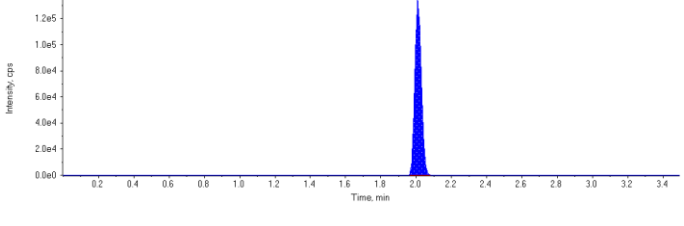
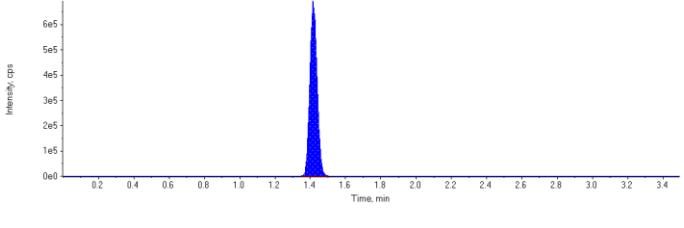
Sample Name	STD 1	Injection Vial	3
Sample ID	STD 1	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:01:03 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	153000.	1.67	1.00	-
MPFHpA	441000.	1.69	1.00	-
MPFOA	388000.	1.87	1.00	-
MPFOS	206000.	1.96	1.00	-
MPFNA	345000.	2.01	1.00	-
13C6-PFHxA IS	1980000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	84000	1.09	2.00	2.43	122.0
PFHxS 1	86100	1.67	2.00	2.16	108.0
PFHpA 1	109000	1.69	2.00	2.06	103.0
PFOA 1	123000	1.87	2.00	2.03	101.0
PFOS 1	63800	1.96	2.00	2.17	109.0
PFNA 1	101000	2.01	2.00	1.97	98.5
18O2-PFHxS	153000	1.67	100.	96.6	96.6
13C4-PFHpA	441000	1.69	100.	96.4	96.4
13C4-PFOA	388000	1.87	100.	94.4	94.4
13C4-PFOS	206000	1.96	100.	101.	101.0
13C5-PFNA	345000	2.01	100.	99.2	99.2
13C6-PFHxA	1980000	1.42	100.	101.	101.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

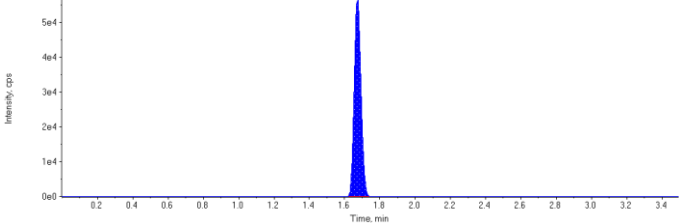
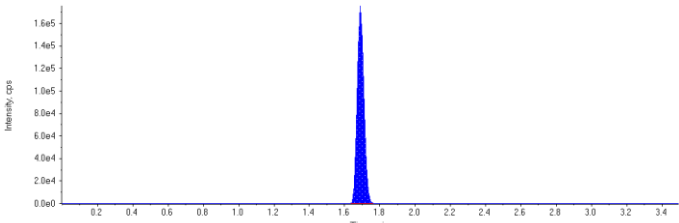
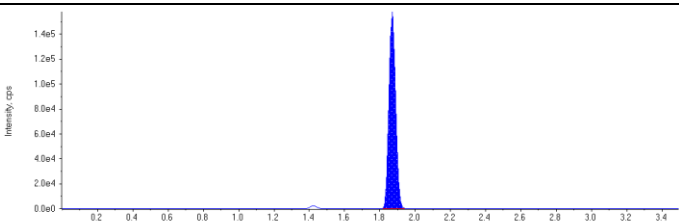
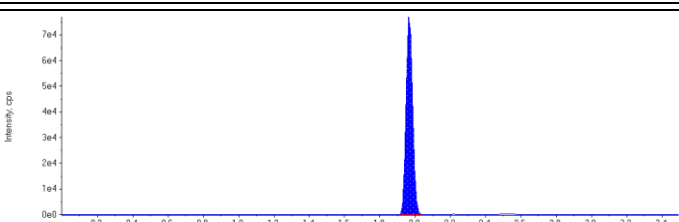
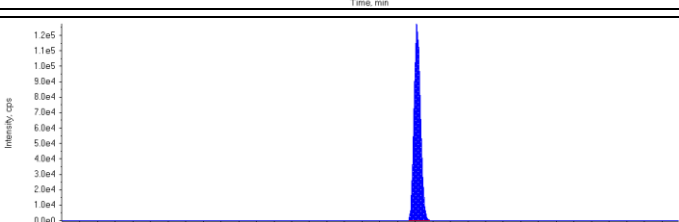
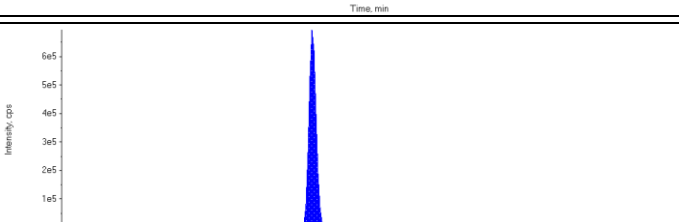
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 2.43 ng/L</p> <p>Area Ratio: 0.547</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 2.16 ng/L</p> <p>Area Ratio: 0.561</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 2.06 ng/L</p> <p>Area Ratio: 0.246</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 2.03 ng/L</p> <p>Area Ratio: 0.318</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 2.17 ng/L</p> <p>Area Ratio: 0.310</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 1.97 ng/L</p> <p>Area Ratio: 0.292</p> <p>Sample Type: (Standard)</p>	

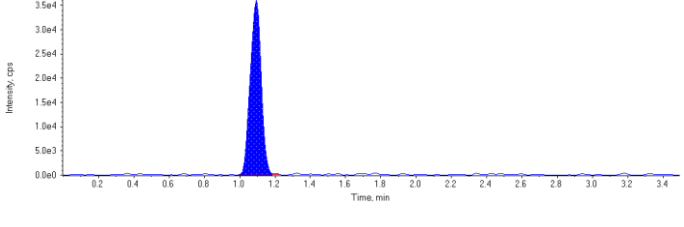
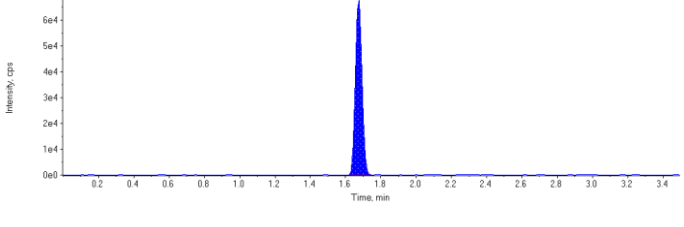
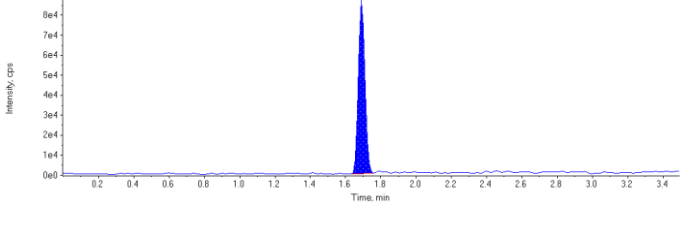
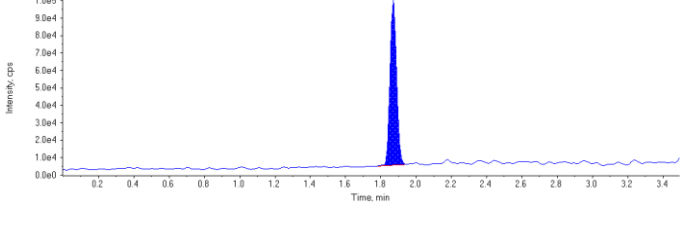
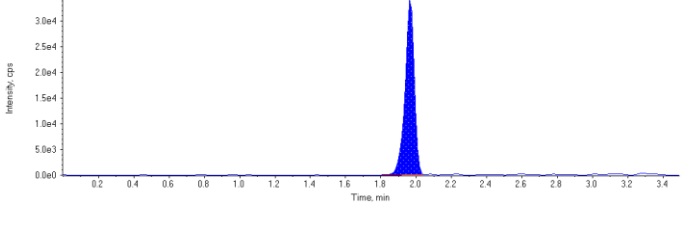
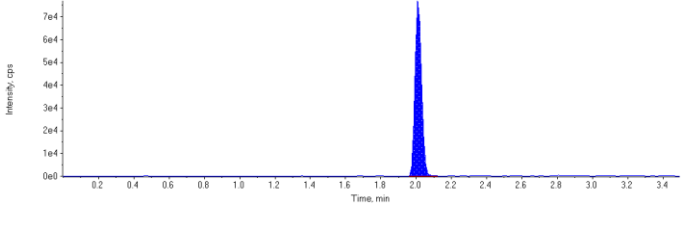
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 96.6 ng/L</p> <p>Area Ratio: 0.0774</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 96.4 ng/L</p> <p>Area Ratio: 0.223</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 94.4 ng/L</p> <p>Area Ratio: 0.196</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.104</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 99.2 ng/L</p> <p>Area Ratio: 0.174</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

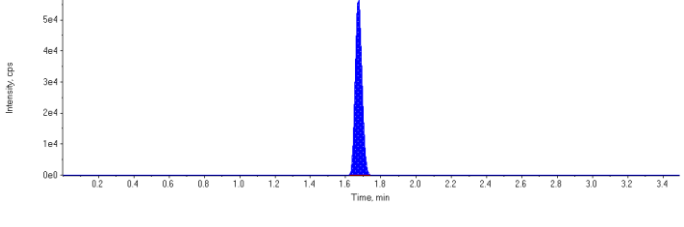
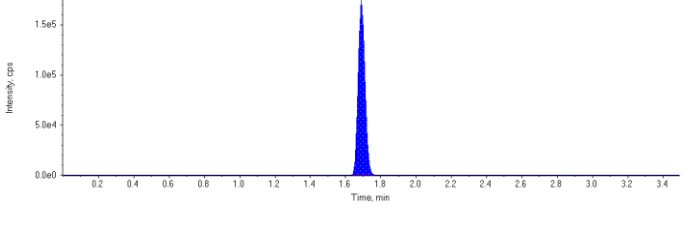
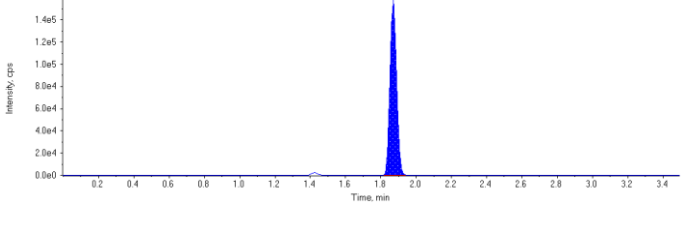
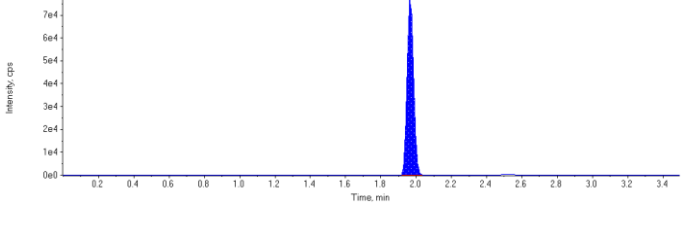
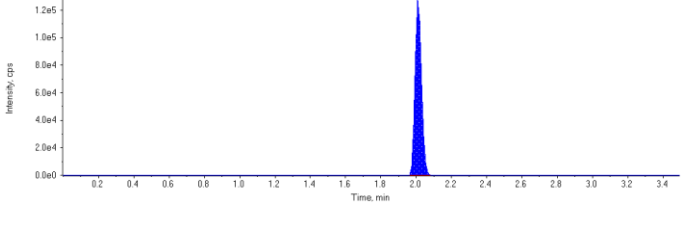
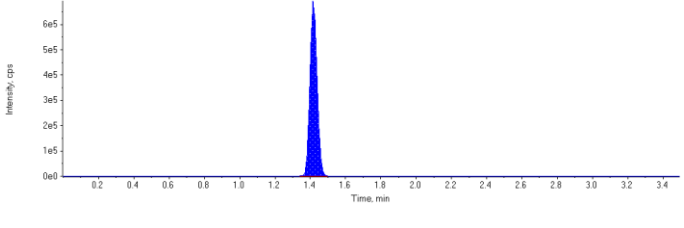
Sample Name	STD 2	Injection Vial	4
Sample ID	STD 2	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:06:08 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	153000.	1.67	1.00	-
MPFHpA	458000.	1.69	1.00	-
MPFOA	409000.	1.87	1.00	-
MPFOS	199000.	1.97	1.00	-
MPFNA	326000.	2.01	1.00	-
13C6-PFHxA IS	1970000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	156000	1.09	4.00	3.96	99.0
PFHxS 1	179000	1.67	4.00	4.19	105.0
PFHpA 1	223000	1.69	4.00	4.00	100.0
PFOA 1	242000	1.87	4.00	3.92	98.0
PFOS 1	123000	1.97	4.00	4.00	100.0
PFNA 1	198000	2.01	4.00	4.36	109.0
18O2-PFHxS	153000	1.67	100.	97.5	97.5
13C4-PFHpA	458000	1.69	100.	101.	101.0
13C4-PFOA	409000	1.87	100.	100.	100.0
13C4-PFOS	199000	1.97	100.	98.3	98.3
13C5-PFNA	326000	2.01	100.	94.5	94.5
13C6-PFHxA	1970000	1.42	100.	99.8	99.8

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.97(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

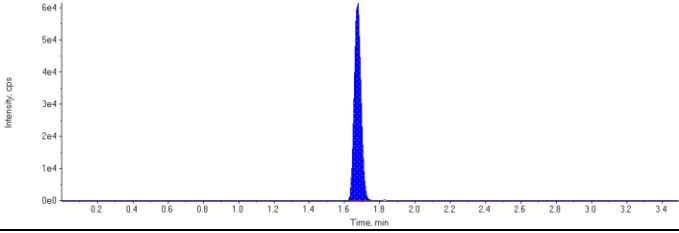
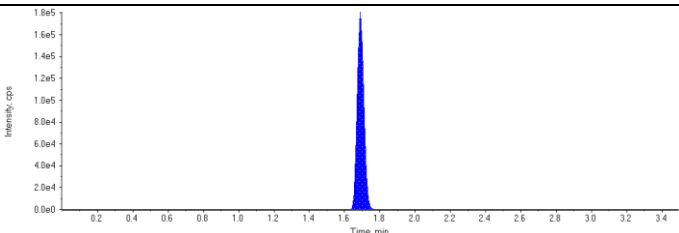
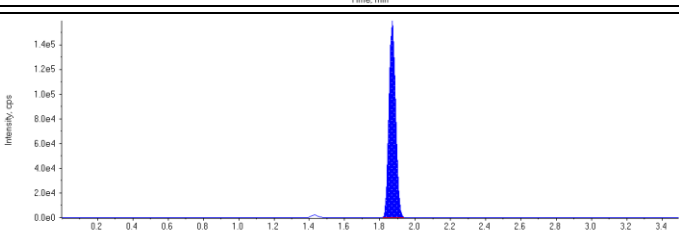
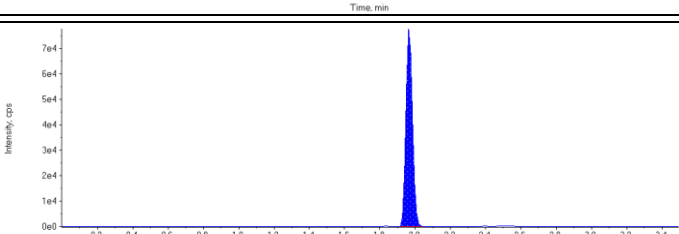
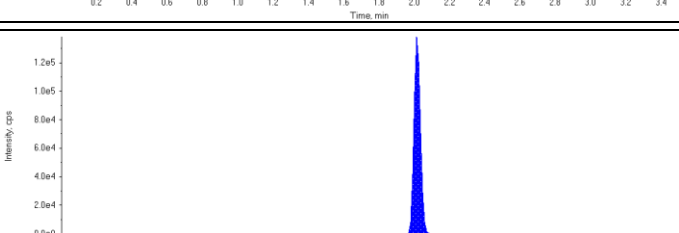
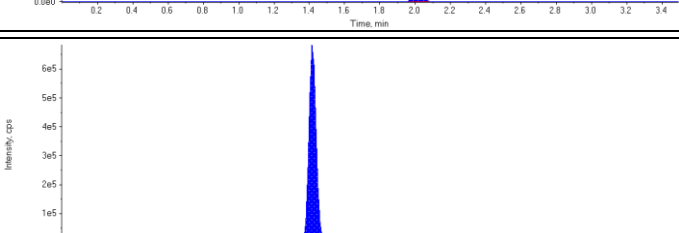
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 3.96 ng/L</p> <p>Area Ratio: 1.02</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 4.19 ng/L</p> <p>Area Ratio: 1.16</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 4.00 ng/L</p> <p>Area Ratio: 0.487</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 3.92 ng/L</p> <p>Area Ratio: 0.591</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 4.00 ng/L</p> <p>Area Ratio: 0.620</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 4.36 ng/L</p> <p>Area Ratio: 0.609</p> <p>Sample Type: (Standard)</p>	

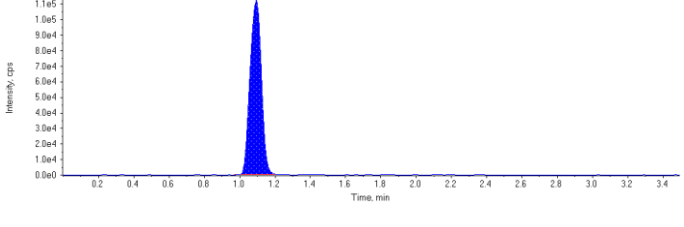
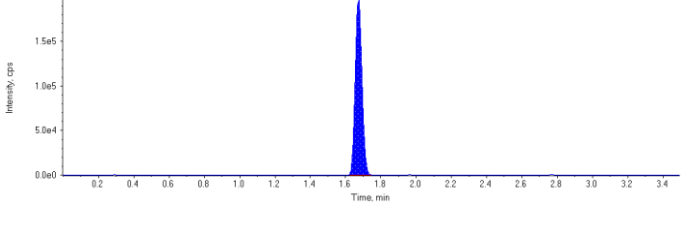
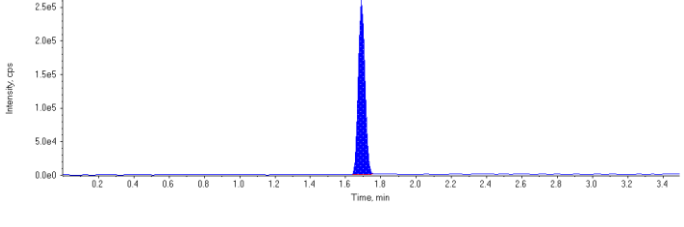
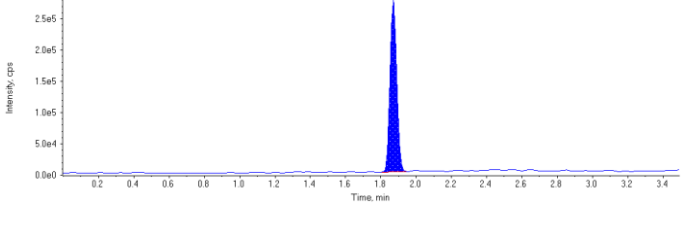
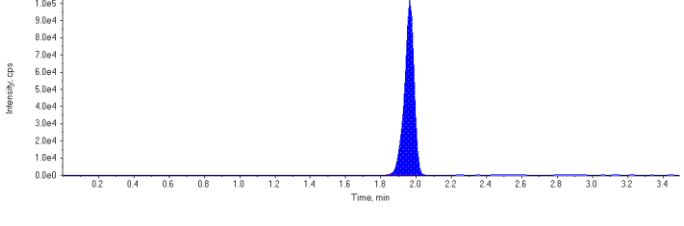
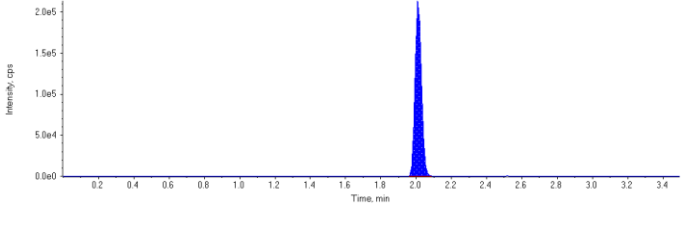
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 97.5 ng/L</p> <p>Area Ratio: 0.0781</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.233</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 100. ng/L</p> <p>Area Ratio: 0.208</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 98.3 ng/L</p> <p>Area Ratio: 0.101</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 94.5 ng/L</p> <p>Area Ratio: 0.166</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 99.8 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

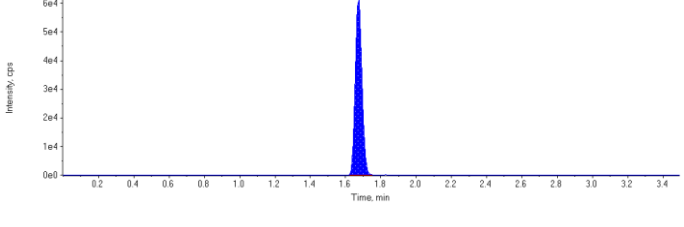
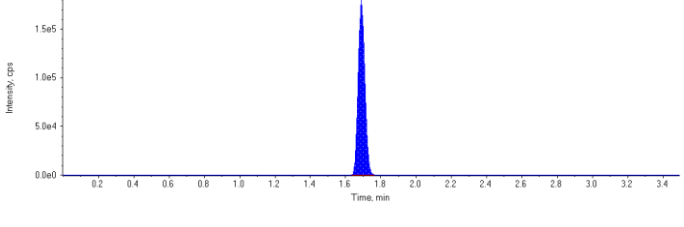
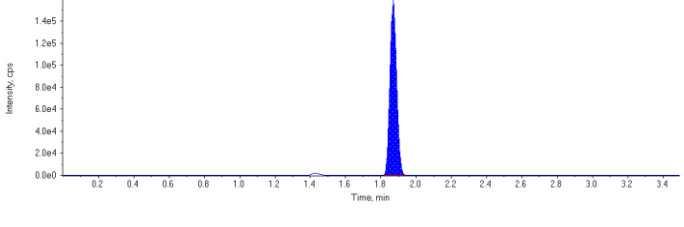
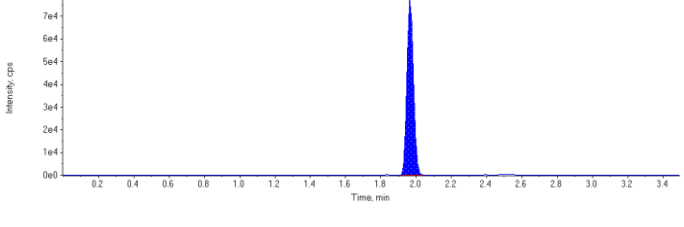
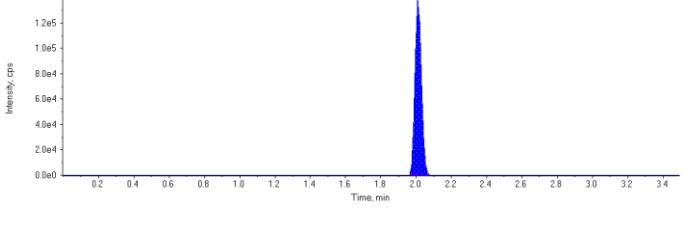
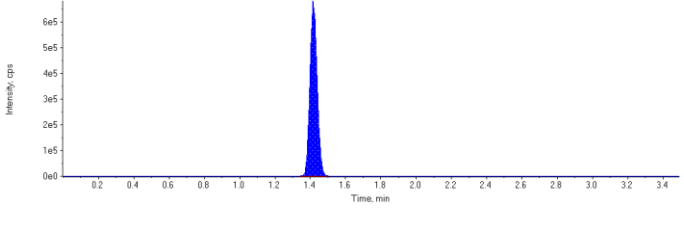
Sample Name	STD 3	Injection Vial	5
Sample ID	STD 3	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:11:18 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	164000.	1.67	1.00	-
MPFHpA	465000.	1.69	1.00	-
MPFOA	413000.	1.87	1.00	-
MPFOS	200000.	1.97	1.00	-
MPFNA	353000.	2.01	1.00	-
13C6-PFHxA IS	1950000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	501000	1.09	12.0	10.6	88.4
PFHxS 1	532000	1.67	12.0	11.2	93.2
PFHpA 1	667000	1.69	12.0	11.6	96.9
PFOA 1	725000	1.87	12.0	12.0	99.8
PFOS 1	384000	1.96	12.0	11.7	97.3
PFNA 1	542000	2.01	12.0	11.4	94.6
18O2-PFHxS	164000	1.67	100.	105.	105.0
13C4-PFHpA	465000	1.69	100.	103.	103.0
13C4-PFOA	413000	1.87	100.	102.	102.0
13C4-PFOS	200000	1.97	100.	99.8	99.8
13C5-PFNA	353000	2.01	100.	103.	103.0
13C6-PFHxA	1950000	1.42	100.	98.9	98.9

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.97(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

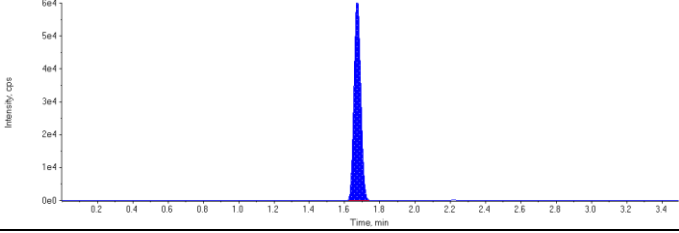
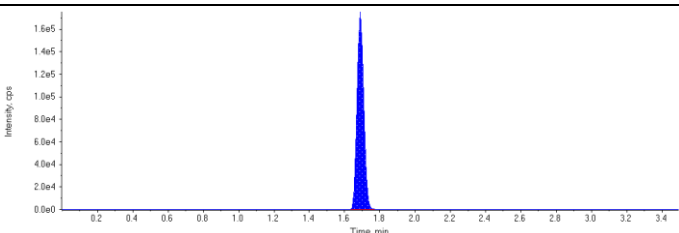
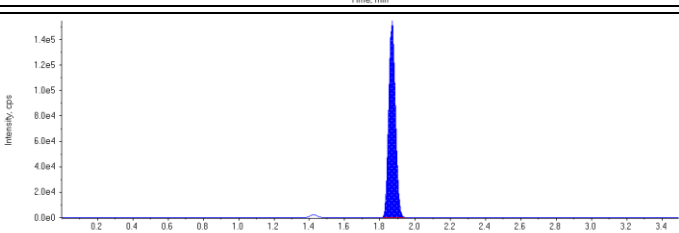
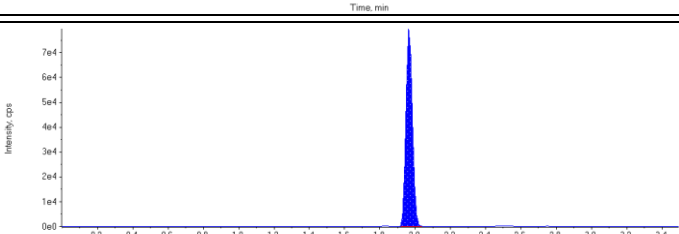
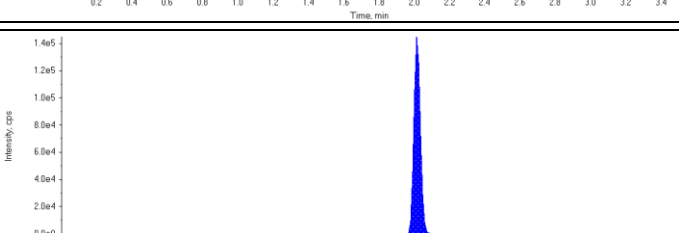
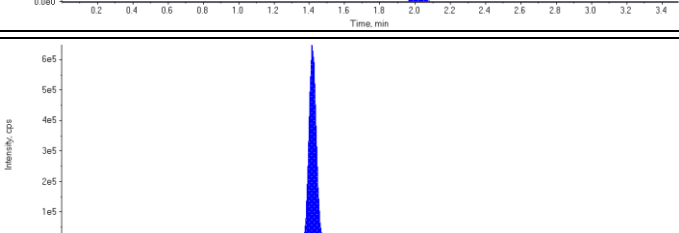
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 10.6 ng/L</p> <p>Area Ratio: 3.05</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 11.2 ng/L</p> <p>Area Ratio: 3.24</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 11.6 ng/L</p> <p>Area Ratio: 1.43</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 12.0 ng/L</p> <p>Area Ratio: 1.75</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 11.7 ng/L</p> <p>Area Ratio: 1.92</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 11.4 ng/L</p> <p>Area Ratio: 1.54</p> <p>Sample Type: (Standard)</p>	

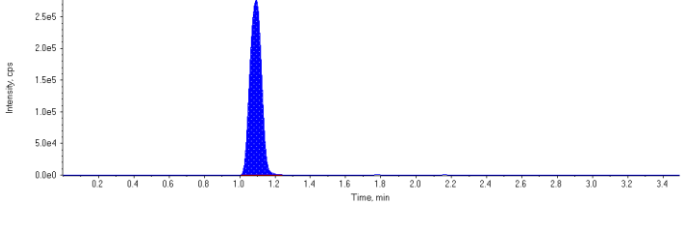
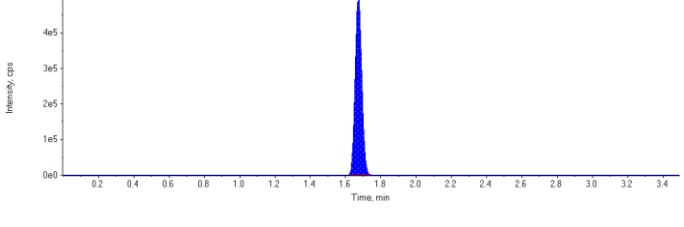
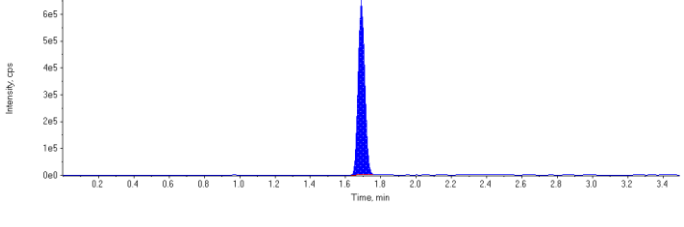
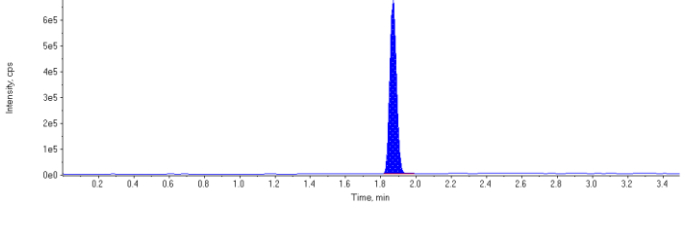
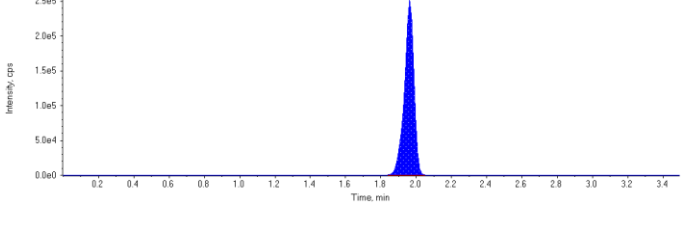
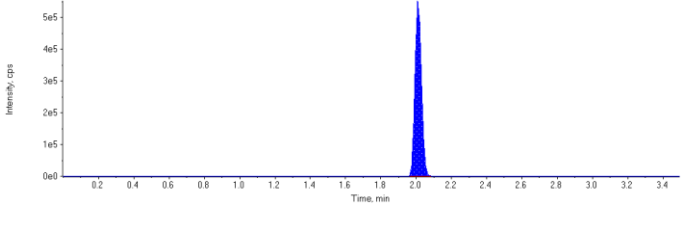
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.0842</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.238</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 102. ng/L</p> <p>Area Ratio: 0.212</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 99.8 ng/L</p> <p>Area Ratio: 0.103</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.181</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 98.9 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

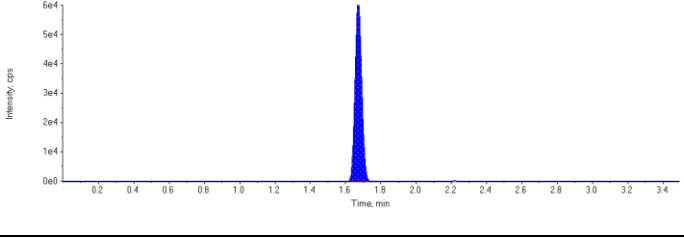
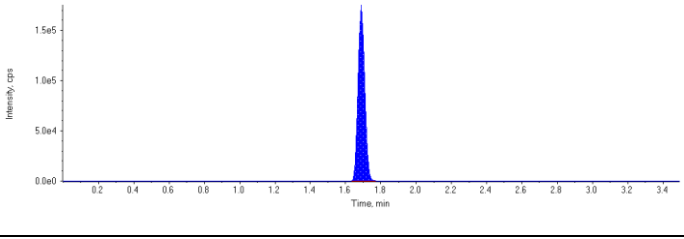
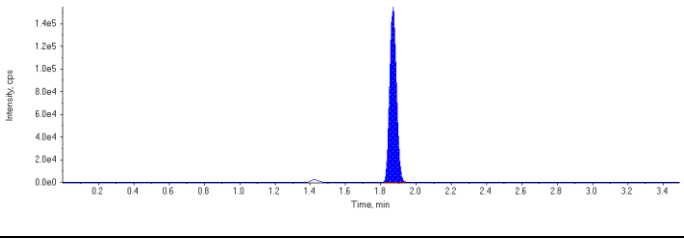
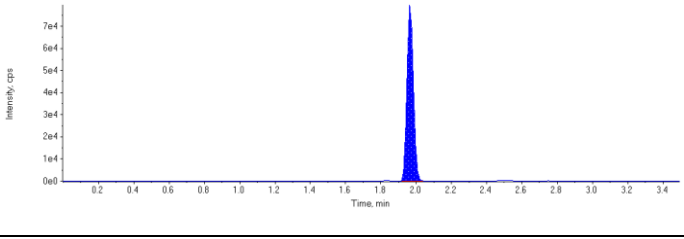
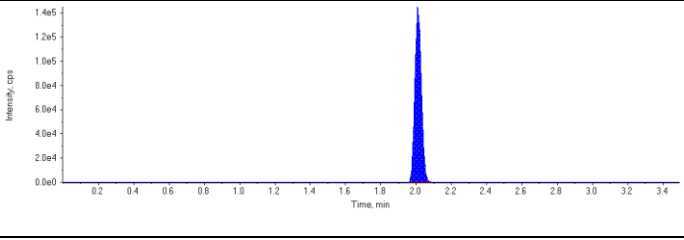
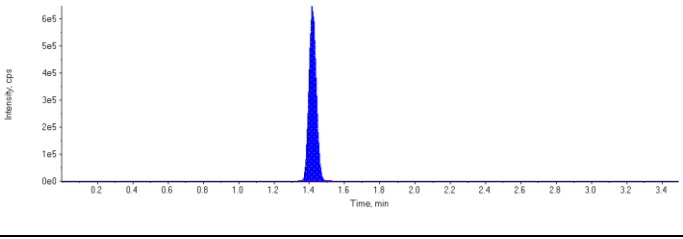
Sample Name	STD 4	Injection Vial	6
Sample ID	STD 4	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:16:23 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	163000.	1.67	1.00	-
MPFHpA	456000.	1.69	1.00	-
MPFOA	407000.	1.87	1.00	-
MPFOS	203000.	1.97	1.00	-
MPFNA	370000.	2.01	1.00	-
13C6-PFHxA IS	1870000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	1270000	1.09	30.0	26.1	87.0
PFHxS 1	1320000	1.67	30.0	27.4	91.4
PFHpA 1	1680000	1.69	30.0	29.7	99.0
PFOA 1	1760000	1.87	30.0	29.8	99.5
PFOS 1	942000	1.96	30.0	27.8	92.8
PFNA 1	1410000	2.01	30.0	28.6	95.2
18O2-PFHxS	163000	1.67	100.	109.	109.0
13C4-PFHpA	456000	1.69	100.	106.	106.0
13C4-PFOA	407000	1.87	100.	105.	105.0
13C4-PFOS	203000	1.97	100.	105.	105.0
13C5-PFNA	370000	2.01	100.	113.	113.0
13C6-PFHxA	1870000	1.42	100.	94.7	94.7

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.97(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

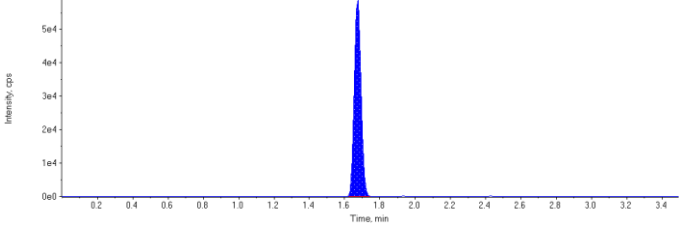
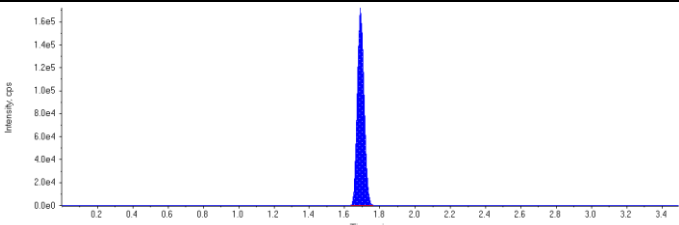
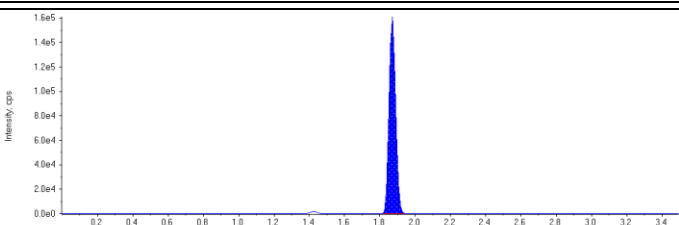
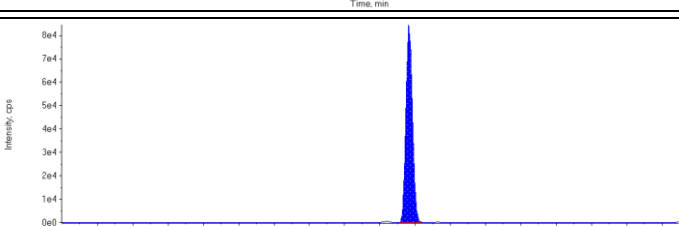
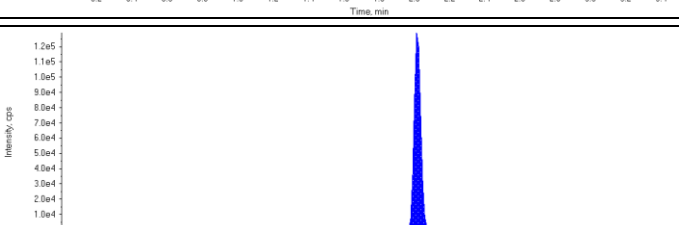
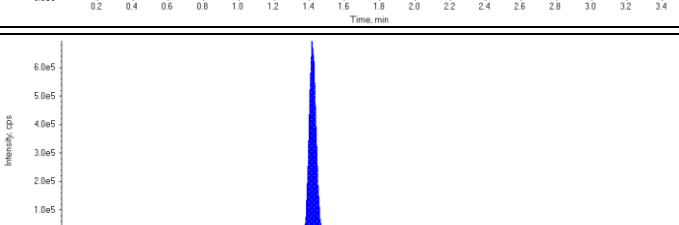
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 26.1 ng/L</p> <p>Area Ratio: 7.80</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 27.4 ng/L</p> <p>Area Ratio: 8.07</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 29.7 ng/L</p> <p>Area Ratio: 3.68</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 29.8 ng/L</p> <p>Area Ratio: 4.33</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 27.8 ng/L</p> <p>Area Ratio: 4.65</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 28.6 ng/L</p> <p>Area Ratio: 3.82</p> <p>Sample Type: (Standard)</p>	

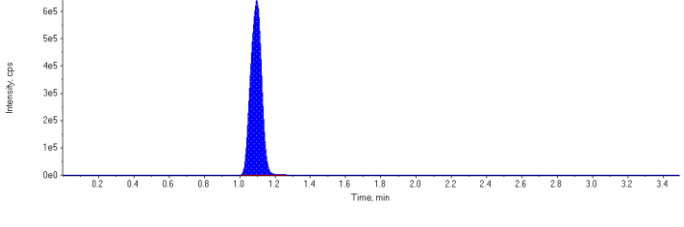
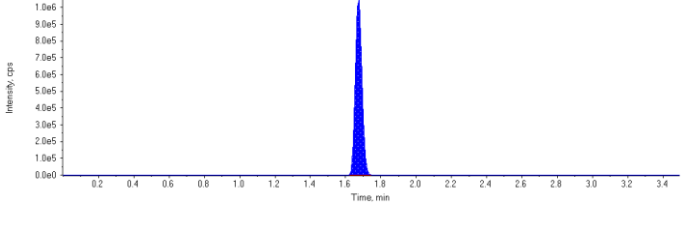
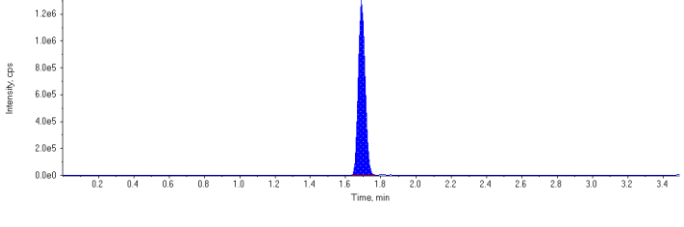
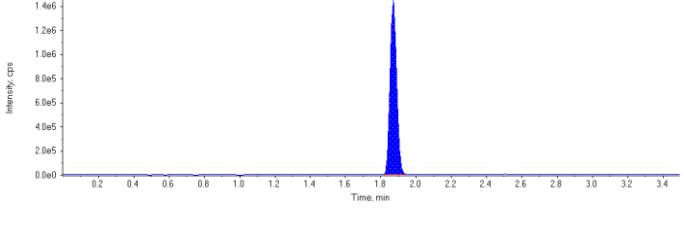
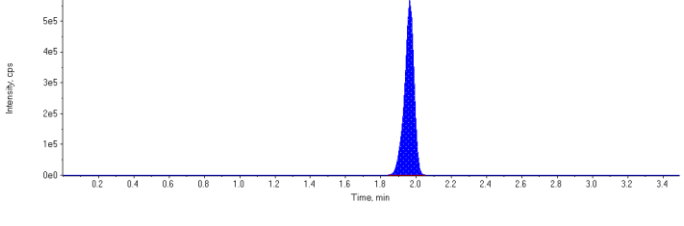
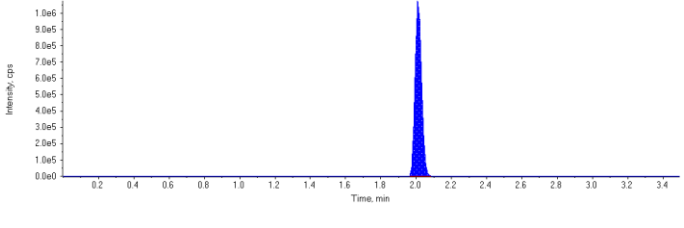
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 109. ng/L</p> <p>Area Ratio: 0.0875</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 106. ng/L</p> <p>Area Ratio: 0.244</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.218</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.109</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 113. ng/L</p> <p>Area Ratio: 0.198</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 94.7 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

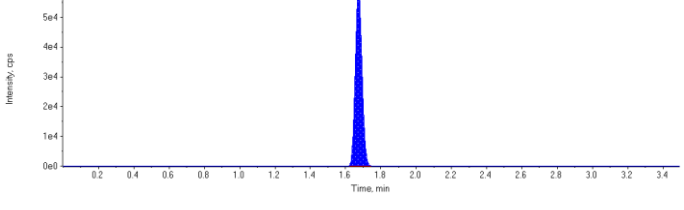
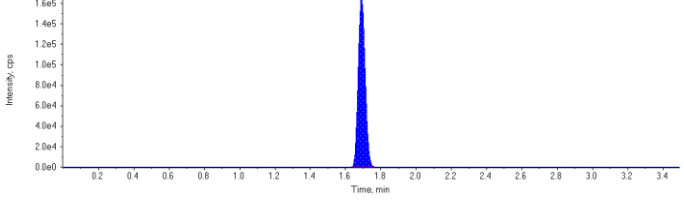
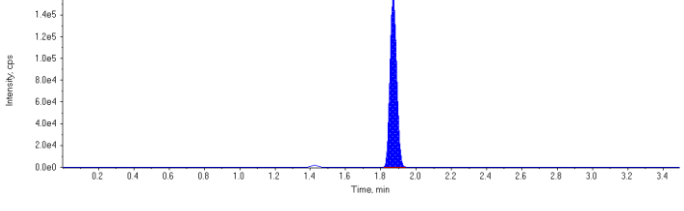
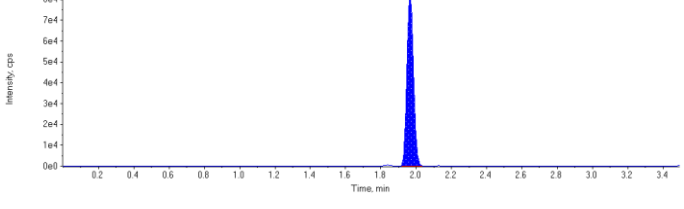
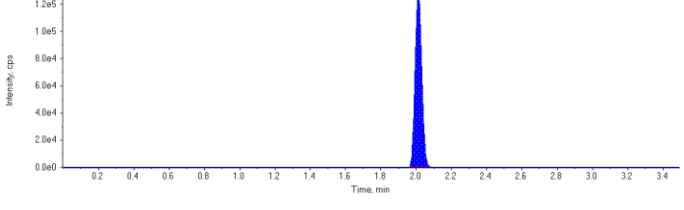
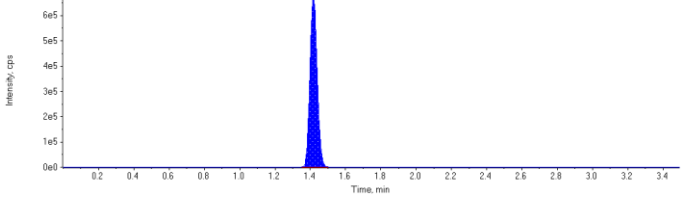
Sample Name	STD 5	Injection Vial	7
Sample ID	STD 5	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:21:28 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	158000.	1.67	1.00	-
MPFHpA	454000.	1.69	1.00	-
MPFOA	415000.	1.87	1.00	-
MPFOS	215000.	1.97	1.00	-
MPFNA	340000.	2.01	1.00	-
13C6-PFHxA IS	1950000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	2800000	1.10	60.0	58.7	97.8
PFHxS 1	2780000	1.67	60.0	59.6	99.3
PFHpA 1	3420000	1.69	60.0	60.7	101.0
PFOA 1	3710000	1.87	60.0	61.8	103.0
PFOS 1	2110000	1.96	60.0	58.5	97.5
PFNA 1	2770000	2.01	60.0	61.2	102.0
18O2-PFHxS	158000	1.67	100.	101.	101.0
13C4-PFHpA	454000	1.69	100.	101.	101.0
13C4-PFOA	415000	1.87	100.	103.	103.0
13C4-PFOS	215000	1.97	100.	107.	107.0
13C5-PFNA	340000	2.01	100.	99.7	99.7
13C6-PFHxA	1950000	1.42	100.	98.8	98.8

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.97(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

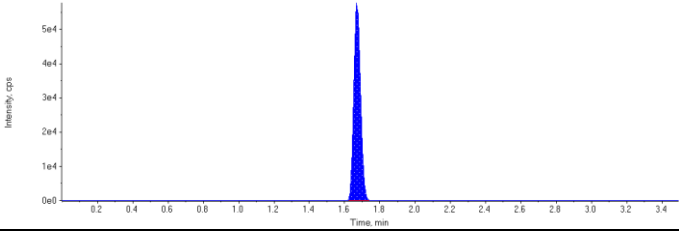
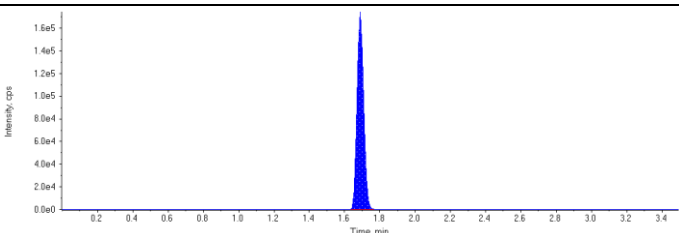
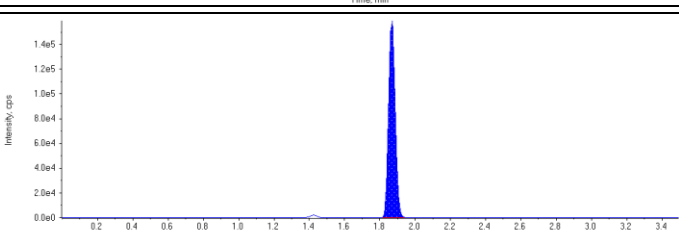
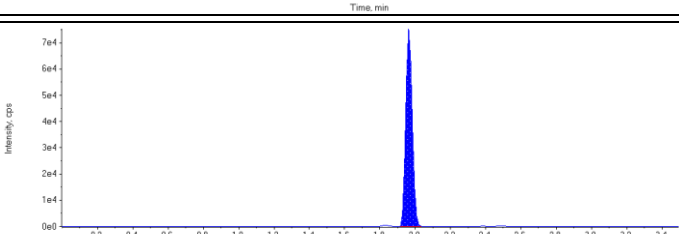
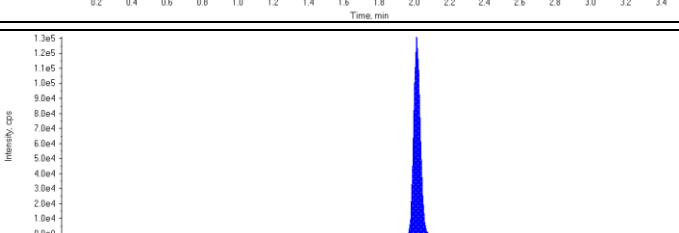
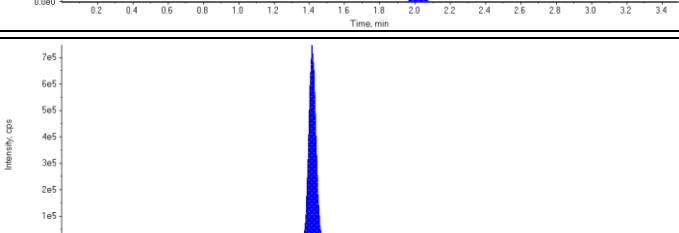
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.10 (1.09) min</p> <p>Calculated Conc: 58.7 ng/L</p> <p>Area Ratio: 17.8</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 59.6 ng/L</p> <p>Area Ratio: 17.6</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 60.7 ng/L</p> <p>Area Ratio: 7.52</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 61.8 ng/L</p> <p>Area Ratio: 8.94</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 58.5 ng/L</p> <p>Area Ratio: 9.83</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 61.2 ng/L</p> <p>Area Ratio: 8.15</p> <p>Sample Type: (Standard)</p>	

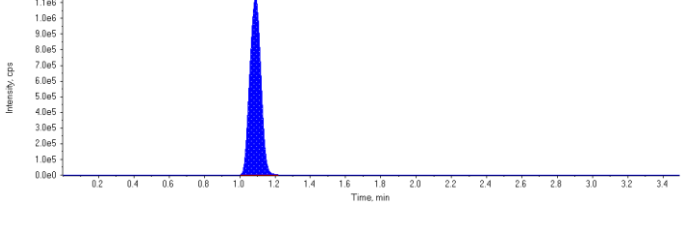
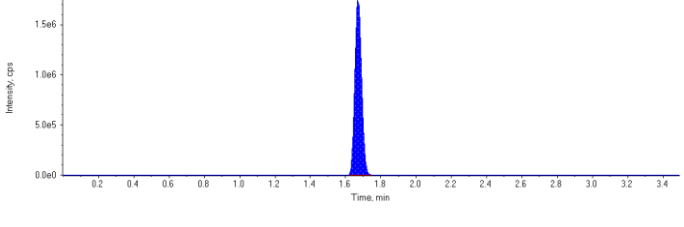
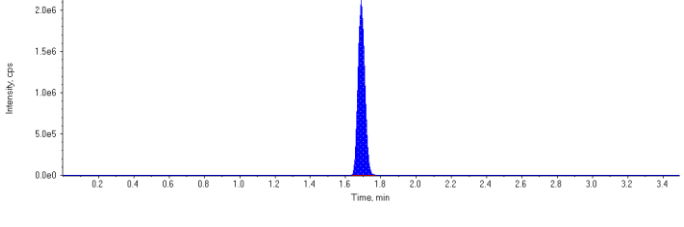
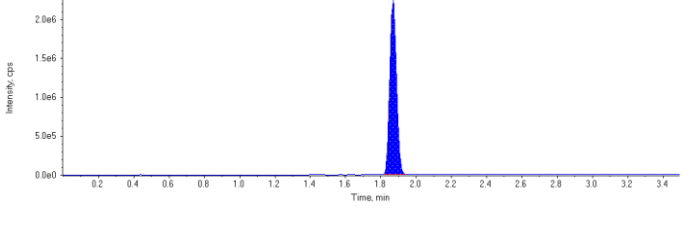
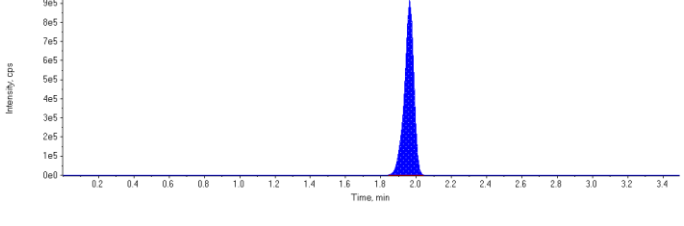
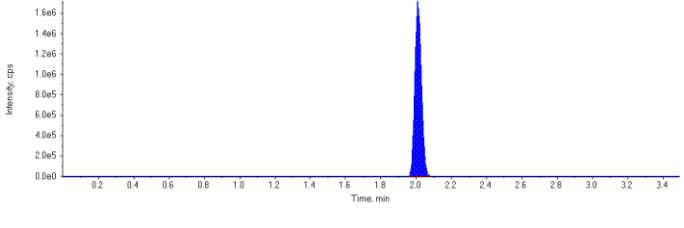
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.0810</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.233</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.213</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 107. ng/L</p> <p>Area Ratio: 0.110</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 99.7 ng/L</p> <p>Area Ratio: 0.175</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 98.8 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

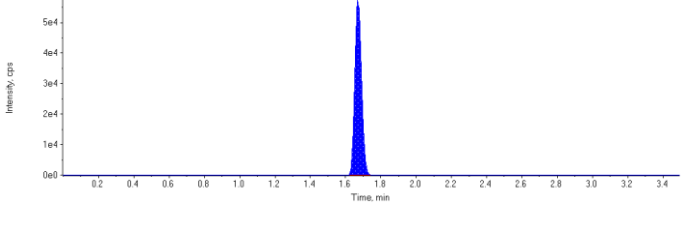
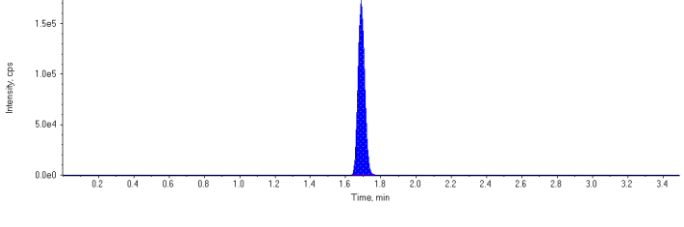
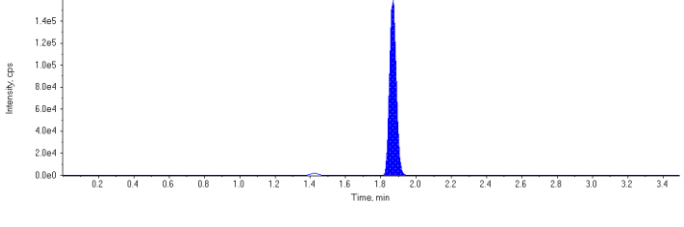
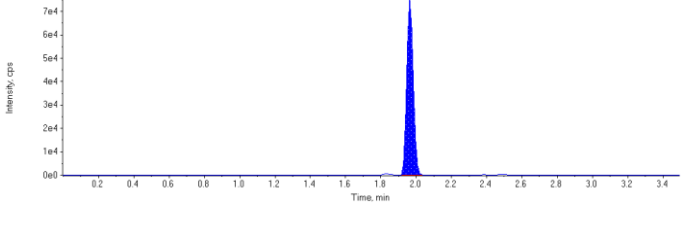
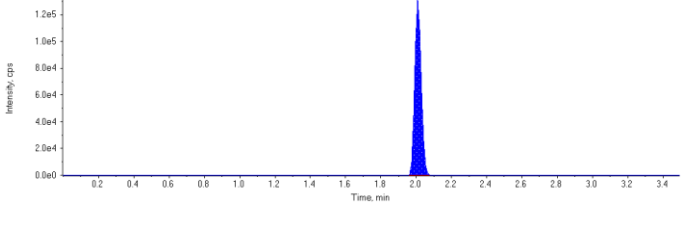
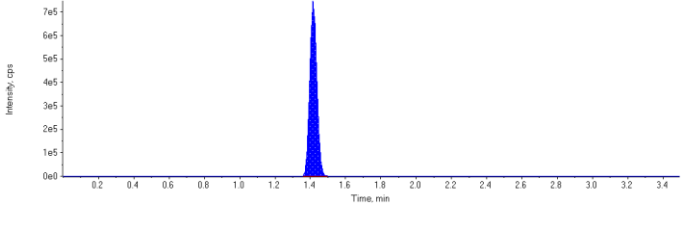
Sample Name	STD 6	Injection Vial	8
Sample ID	STD 6	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:26:34 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	153000.	1.67	1.00	-
MPFHpA	450000.	1.69	1.00	-
MPFOA	416000.	1.87	1.00	-
MPFOS	193000.	1.96	1.00	-
MPFNA	334000.	2.01	1.00	-
13C6-PFHxA IS	2110000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	4940000	1.09	100.	106.	106.0
PFHxS 1	4690000	1.67	100.	103.	103.0
PFHpA 1	5570000	1.69	100.	99.9	99.9
PFOA 1	5930000	1.87	100.	98.5	98.5
PFOS 1	3370000	1.96	100.	104.	104.0
PFNA 1	4470000	2.01	100.	101.	101.0
18O2-PFHxS	153000	1.67	100.	90.5	90.5
13C4-PFHpA	450000	1.69	100.	92.4	92.4
13C4-PFOA	416000	1.87	100.	95.1	95.1
13C4-PFOS	193000	1.96	100.	88.7	88.7
13C5-PFNA	334000	2.01	100.	90.4	90.4
13C6-PFHxA	2110000	1.42	100.	107.	107.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

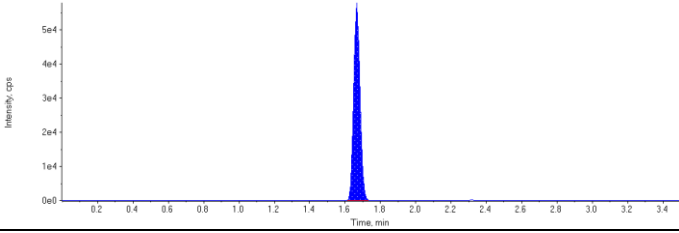
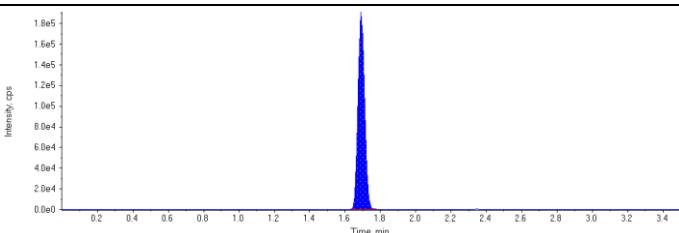
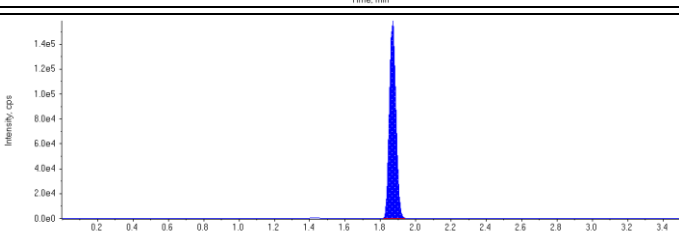
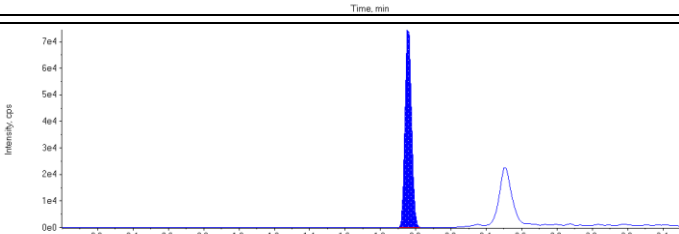
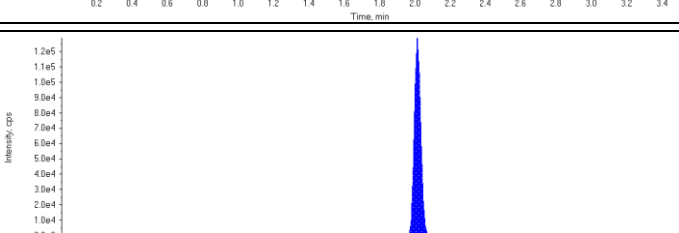
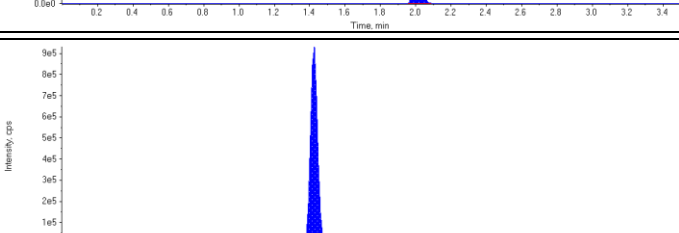
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 106. ng/L</p> <p>Area Ratio: 32.3</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 30.7</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 99.9 ng/L</p> <p>Area Ratio: 12.4</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 98.5 ng/L</p> <p>Area Ratio: 14.2</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 104. ng/L</p> <p>Area Ratio: 17.5</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 13.4</p> <p>Sample Type: (Standard)</p>	

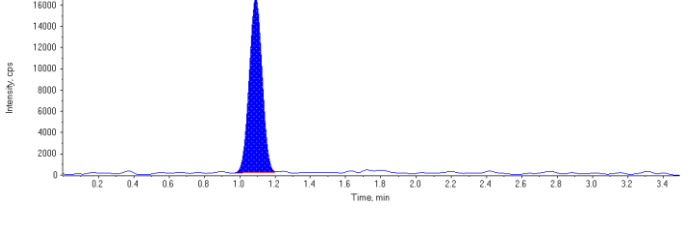
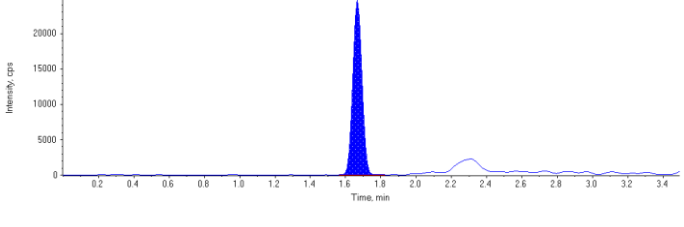
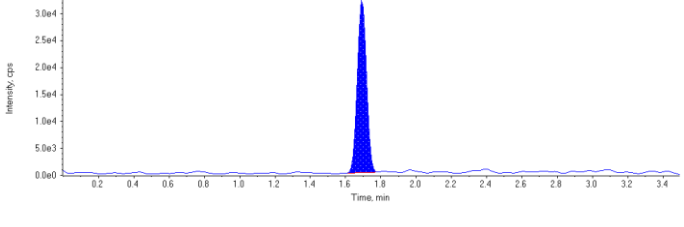
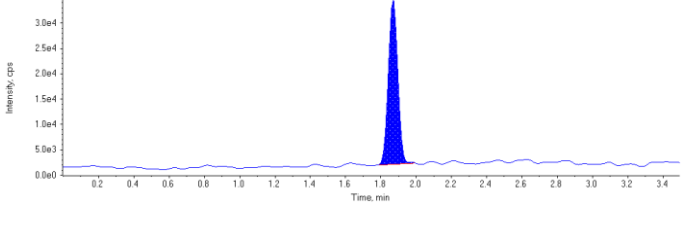
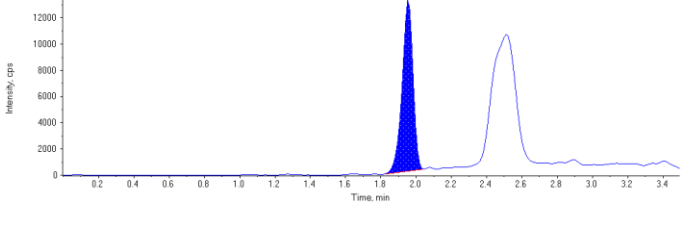
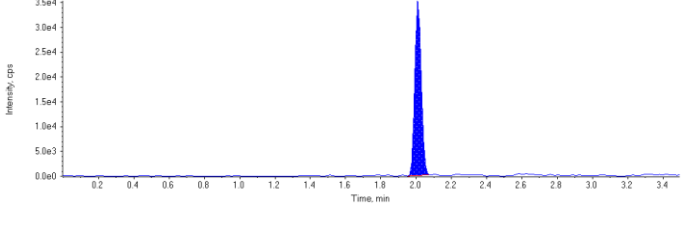
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 90.5 ng/L</p> <p>Area Ratio: 0.0725</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 92.4 ng/L</p> <p>Area Ratio: 0.213</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 95.1 ng/L</p> <p>Area Ratio: 0.197</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 88.7 ng/L</p> <p>Area Ratio: 0.0914</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 90.4 ng/L</p> <p>Area Ratio: 0.158</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 107. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

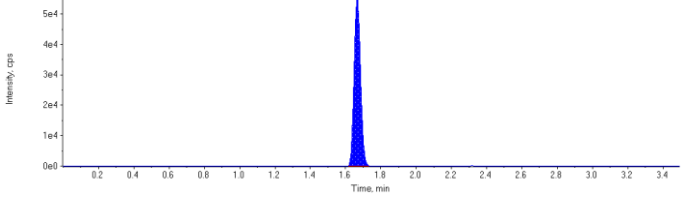
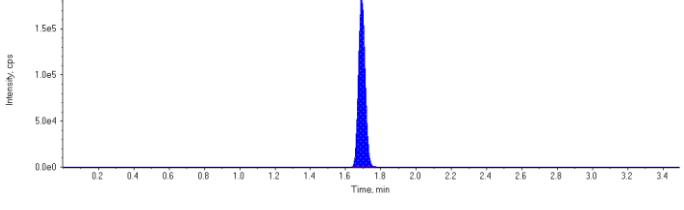
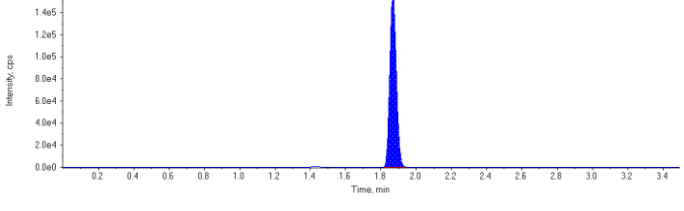
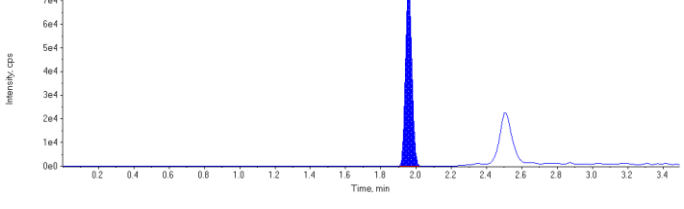
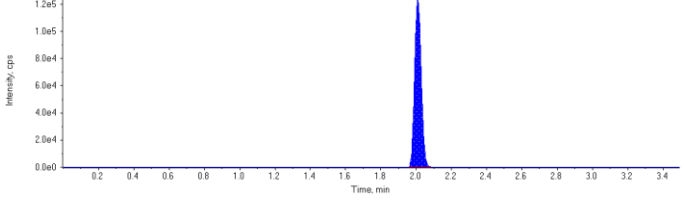
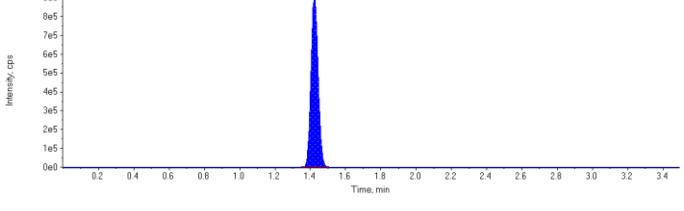
Sample Name	STD 1	Injection Vial	3
Sample ID	STD 1	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 9:00:47 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	143000.	1.67	1.00	-
MPFHpA	491000.	1.69	1.00	-
MPFOA	404000.	1.87	1.00	-
MPFOS	192000.	1.96	1.00	-
MPFNA	325000.	2.01	1.00	-
13C6-PFHxA IS	2590000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	82700	1.09	2.00	2.50	125.0
PFHxS 1	89000	1.67	2.00	2.38	119.0
PFHpA 1	115000	1.69	2.00	2.09	105.0
PFOA 1	121000	1.87	2.00	2.11	106.0
PFOS 1	55700	1.95	2.00	2.26	113.0
PFNA 1	89300	2.01	2.00	2.08	104.0
18O2-PFHxS	143000	1.67	100.	85.3	85.3
13C4-PFHpA	491000	1.69	100.	98.9	98.9
13C4-PFOA	404000	1.87	100.	93.3	93.3
13C4-PFOS	192000	1.96	100.	93.9	93.9
13C5-PFNA	325000	2.01	100.	93.9	93.9
13C6-PFHxA	2590000	1.42	100.	104.	104.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

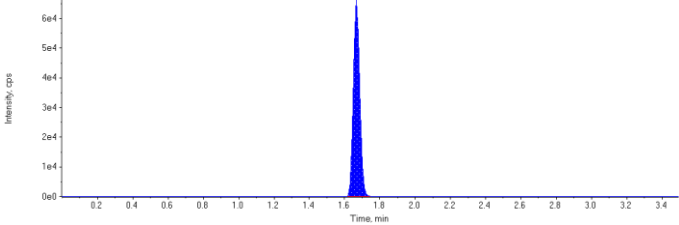
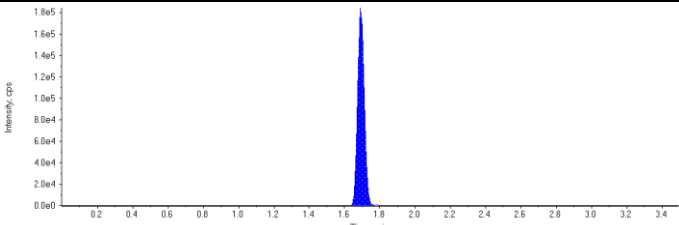
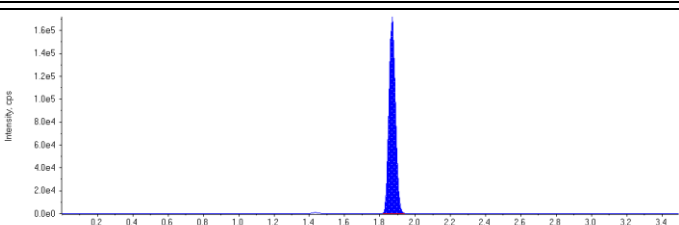
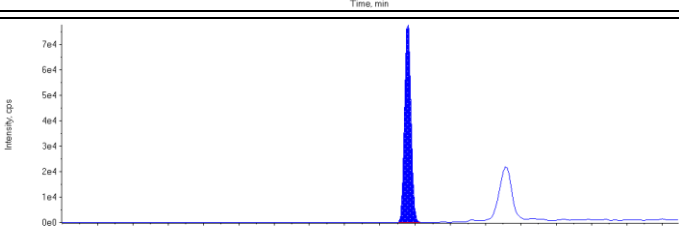
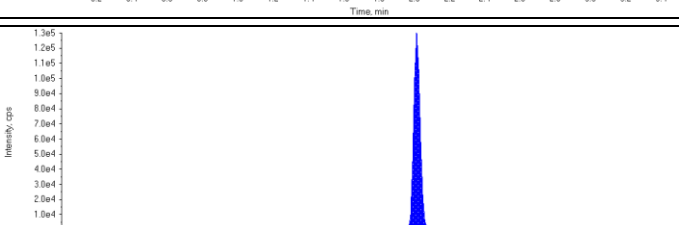
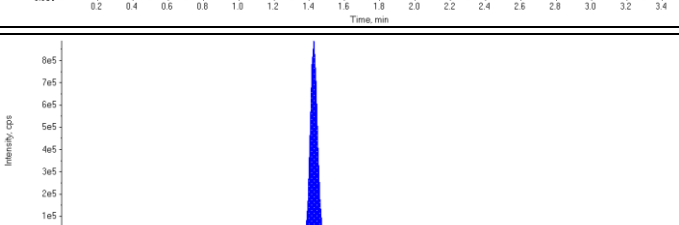
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 2.50 ng/L</p> <p>Area Ratio: 0.580</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 2.38 ng/L</p> <p>Area Ratio: 0.625</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 2.09 ng/L</p> <p>Area Ratio: 0.234</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 2.11 ng/L</p> <p>Area Ratio: 0.299</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 2.26 ng/L</p> <p>Area Ratio: 0.291</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 2.08 ng/L</p> <p>Area Ratio: 0.275</p> <p>Sample Type: (Standard)</p>	

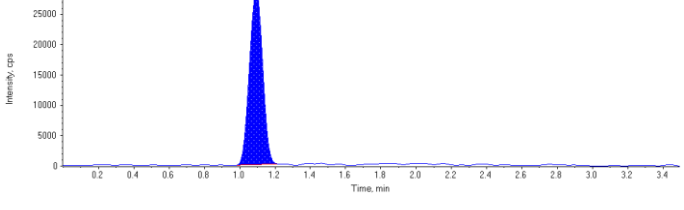
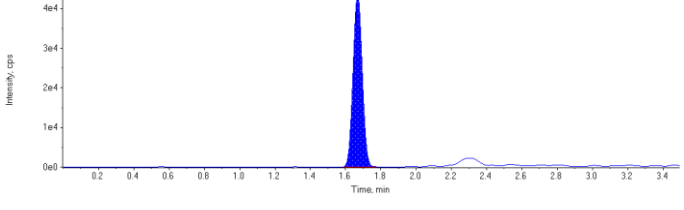
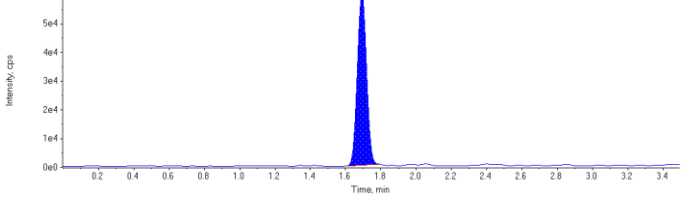
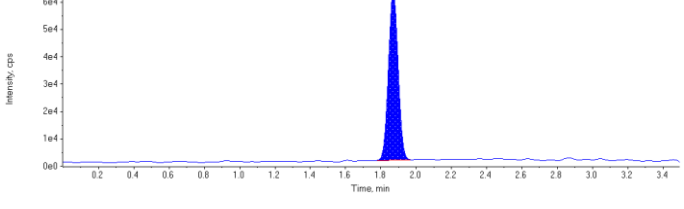
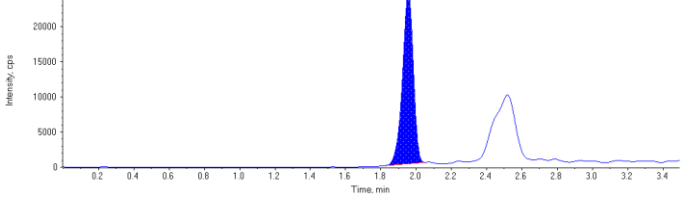
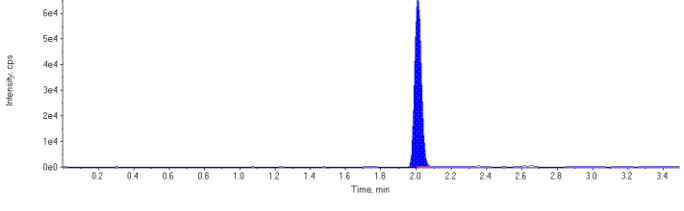
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 85.3 ng/L</p> <p>Area Ratio: 0.0551</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 98.9 ng/L</p> <p>Area Ratio: 0.190</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 93.3 ng/L</p> <p>Area Ratio: 0.156</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 93.9 ng/L</p> <p>Area Ratio: 0.0740</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 93.9 ng/L</p> <p>Area Ratio: 0.126</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 104. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

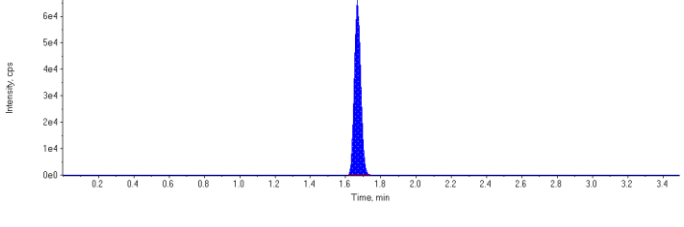
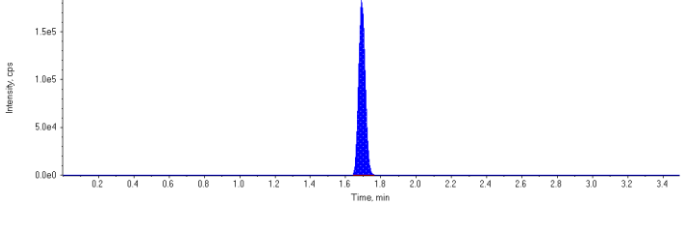
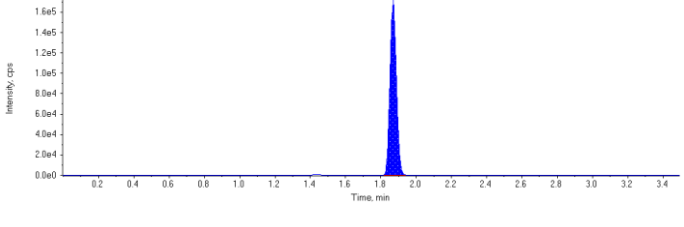
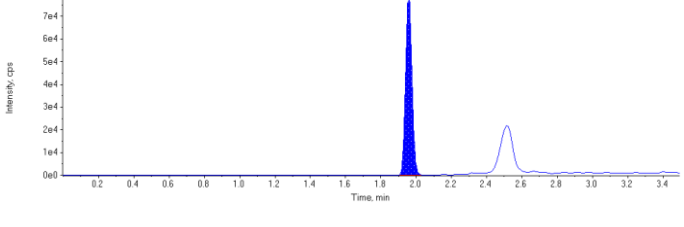
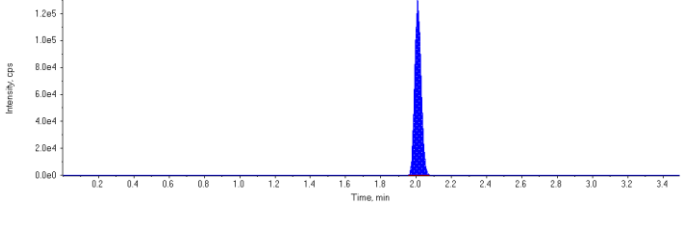
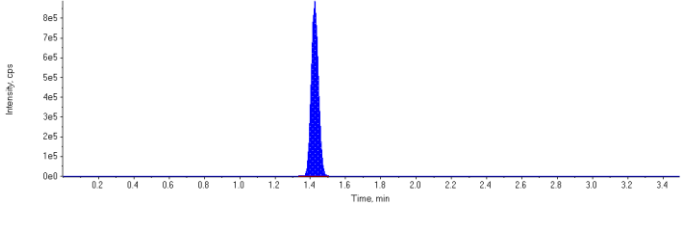
Sample Name	STD 2	Injection Vial	4
Sample ID	STD 2	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 9:05:58 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	165000.	1.67	1.00	-
MPFHpA	475000.	1.69	1.00	-
MPFOA	434000.	1.87	1.00	-
MPFOS	198000.	1.96	1.00	-
MPFNA	328000.	2.01	1.00	-
13C6-PFHxA IS	2530000.	1.43	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	148000	1.09	4.00	3.62	90.5
PFHxS 1	157000	1.67	4.00	3.49	87.2
PFHpA 1	217000	1.69	4.00	3.95	98.6
PFOA 1	234000	1.87	4.00	3.74	93.6
PFOS 1	103000	1.96	4.00	3.72	93.1
PFNA 1	172000	2.01	4.00	3.97	99.3
18O2-PFHxS	165000	1.67	100.	101.	101.0
13C4-PFHpA	475000	1.69	100.	98.0	98.0
13C4-PFOA	434000	1.87	100.	103.	103.0
13C4-PFOS	198000	1.96	100.	99.7	99.7
13C5-PFNA	328000	2.01	100.	97.1	97.1
13C6-PFHxA	2530000	1.43	100.	102.	102.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.43(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

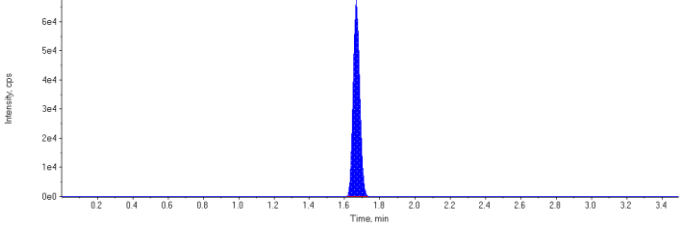
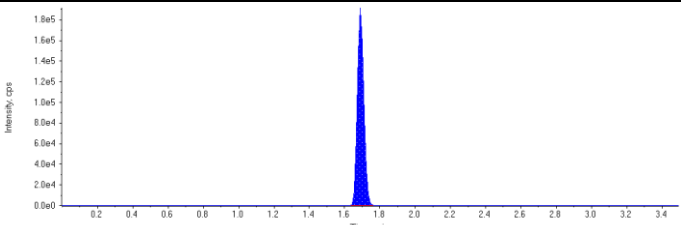
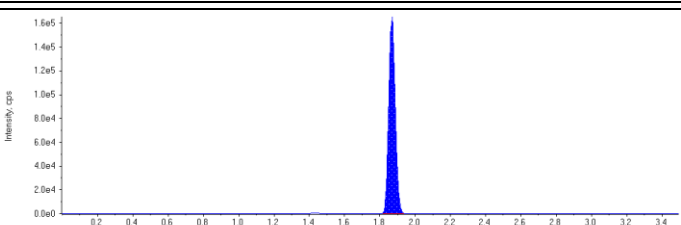
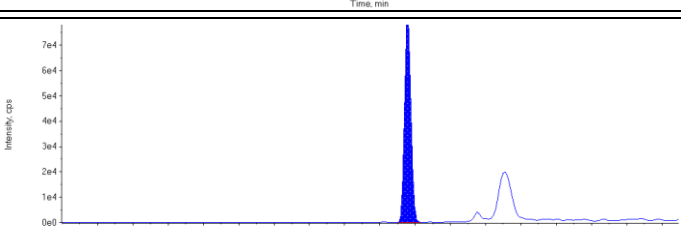
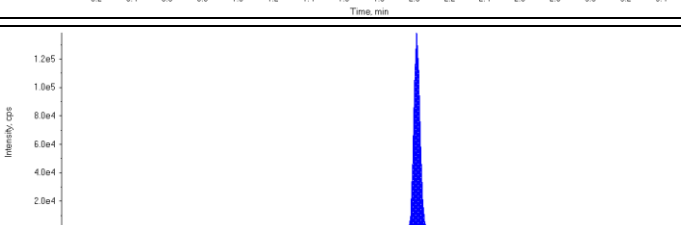
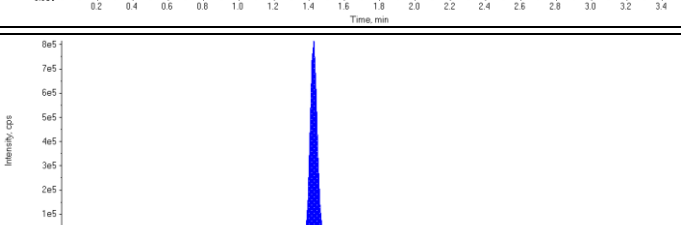
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 3.62 ng/L</p> <p>Area Ratio: 0.897</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 3.49 ng/L</p> <p>Area Ratio: 0.948</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 3.95 ng/L</p> <p>Area Ratio: 0.456</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 3.74 ng/L</p> <p>Area Ratio: 0.538</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 3.72 ng/L</p> <p>Area Ratio: 0.520</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 3.97 ng/L</p> <p>Area Ratio: 0.525</p> <p>Sample Type: (Standard)</p>	

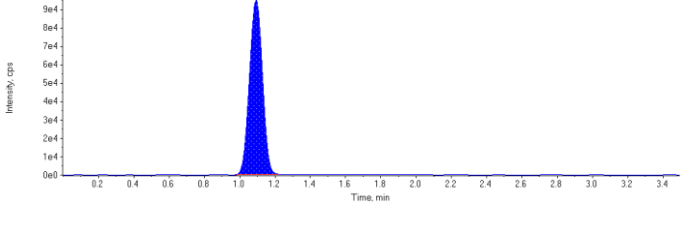
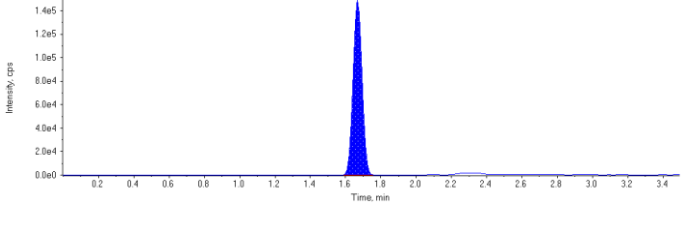
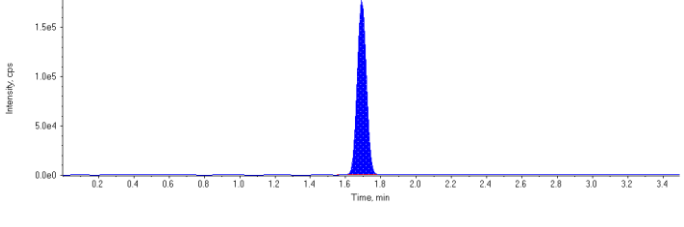
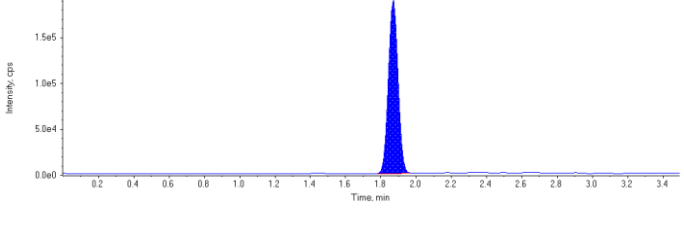
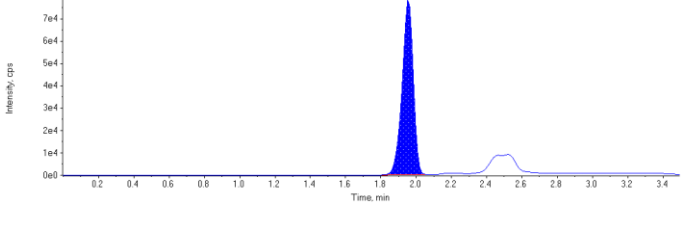
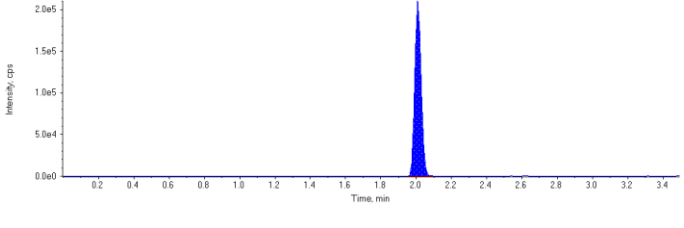
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.0655</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 98.0 ng/L</p> <p>Area Ratio: 0.188</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.172</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 99.7 ng/L</p> <p>Area Ratio: 0.0786</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 97.1 ng/L</p> <p>Area Ratio: 0.130</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.43 (1.42) min</p> <p>Calculated Conc: 102. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

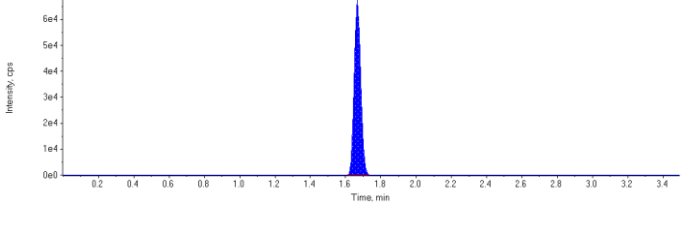
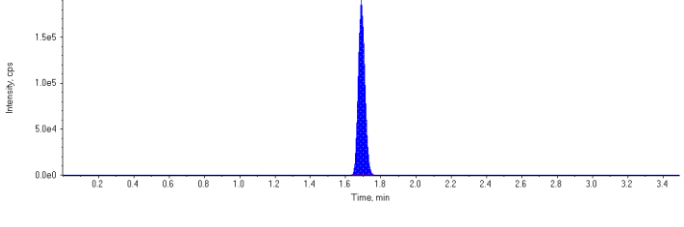
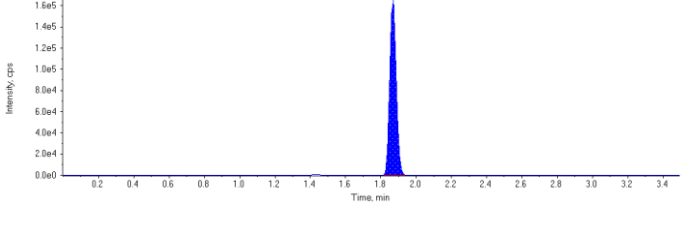
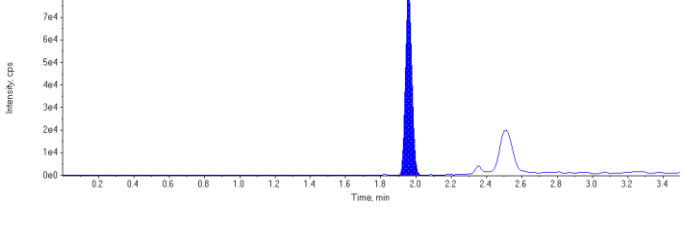
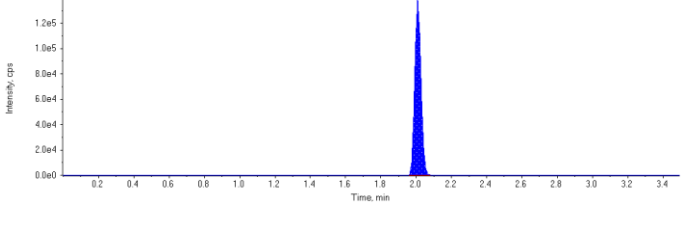
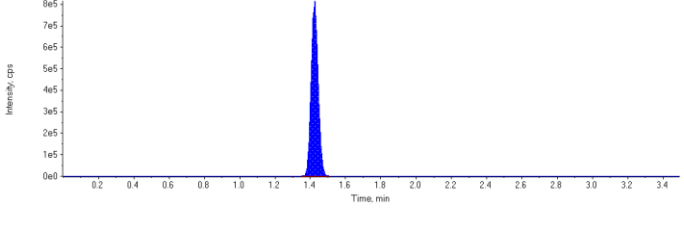
Sample Name	STD 3	Injection Vial	5
Sample ID	STD 3	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 9:11:03 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	171000.	1.67	1.00	-
MPFHpA	484000.	1.69	1.00	-
MPFOA	424000.	1.87	1.00	-
MPFOS	204000.	1.96	1.00	-
MPFNA	340000.	2.01	1.00	-
13C6-PFHxA IS	2270000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	487000	1.09	12.0	10.5	87.7
PFHxS 1	526000	1.67	12.0	10.8	89.7
PFHpA 1	632000	1.69	12.0	11.0	92.0
PFOA 1	716000	1.87	12.0	11.6	96.9
PFOS 1	342000	1.96	12.0	11.1	92.8
PFNA 1	528000	2.01	12.0	11.7	97.9
18O2-PFHxS	171000	1.67	100.	117.	117.0
13C4-PFHpA	484000	1.69	100.	111.	111.0
13C4-PFOA	424000	1.87	100.	111.	111.0
13C4-PFOS	204000	1.96	100.	114.	114.0
13C5-PFNA	340000	2.01	100.	112.	112.0
13C6-PFHxA	2270000	1.42	100.	91.7	91.7

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

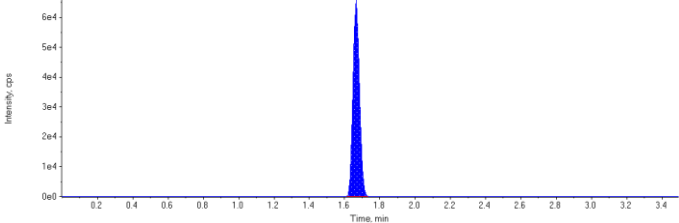
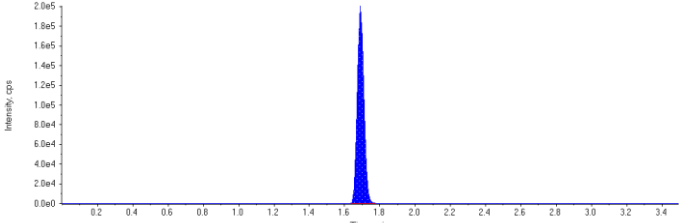
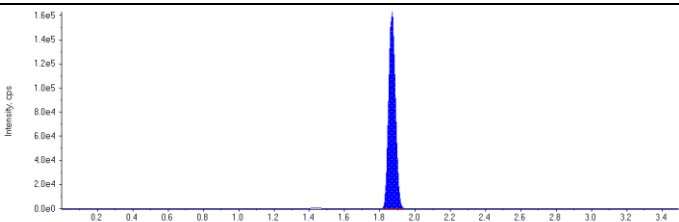
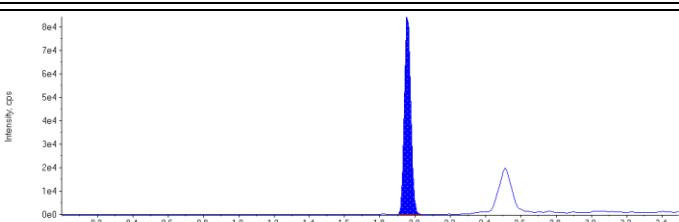
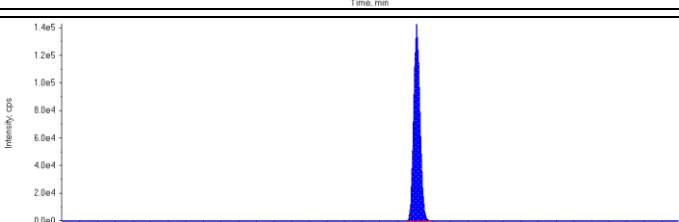
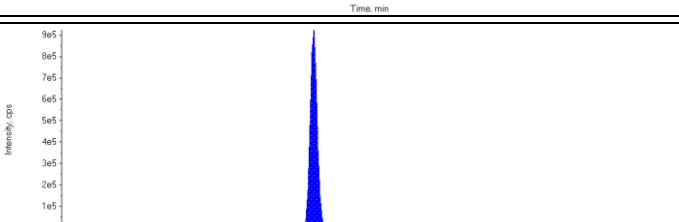
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 10.5 ng/L</p> <p>Area Ratio: 2.84</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 10.8 ng/L</p> <p>Area Ratio: 3.07</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 11.0 ng/L</p> <p>Area Ratio: 1.31</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 11.6 ng/L</p> <p>Area Ratio: 1.69</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 11.1 ng/L</p> <p>Area Ratio: 1.68</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 11.7 ng/L</p> <p>Area Ratio: 1.55</p> <p>Sample Type: (Standard)</p>	

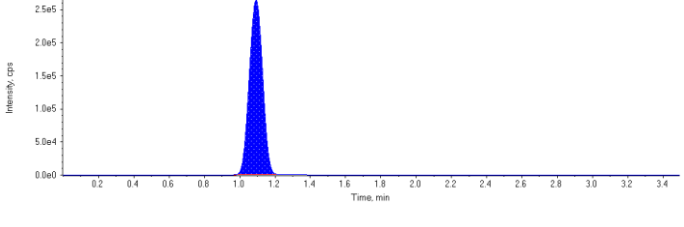
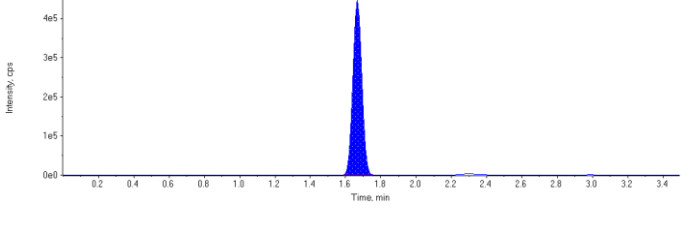
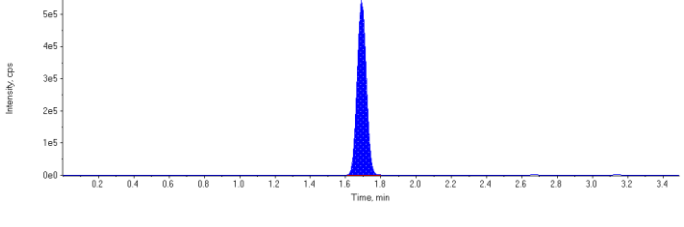
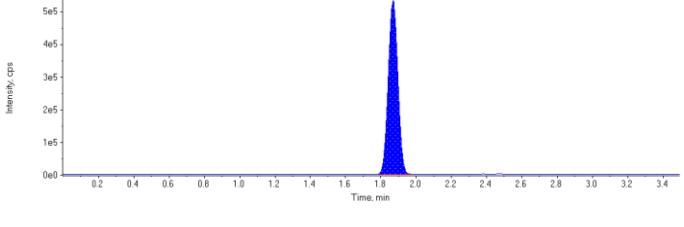
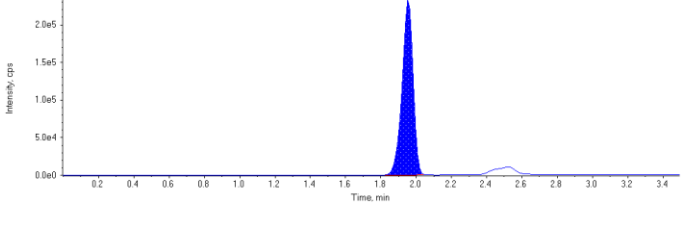
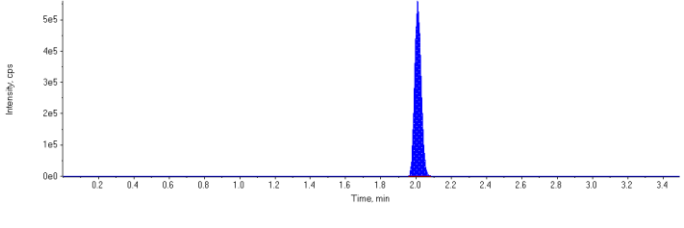
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 117. ng/L</p> <p>Area Ratio: 0.0754</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 111. ng/L</p> <p>Area Ratio: 0.213</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 111. ng/L</p> <p>Area Ratio: 0.186</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 114. ng/L</p> <p>Area Ratio: 0.0897</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 112. ng/L</p> <p>Area Ratio: 0.150</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 91.7 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

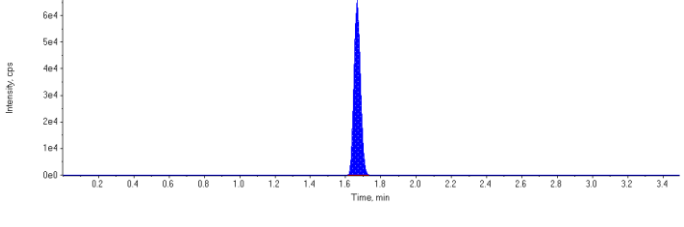
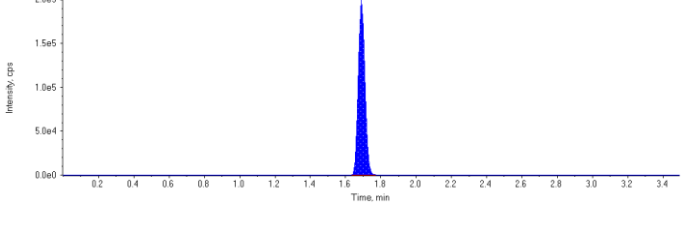
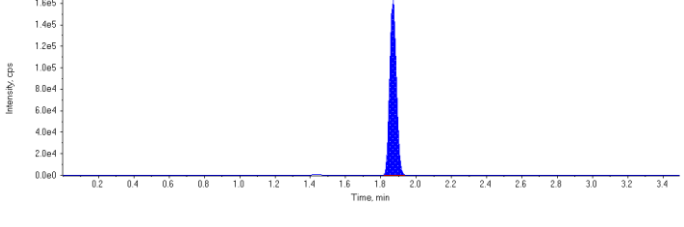
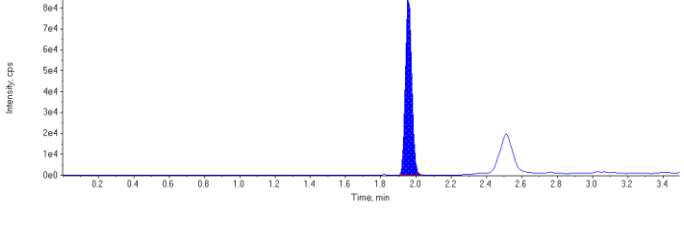
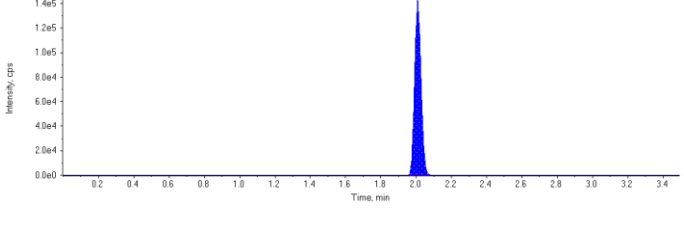
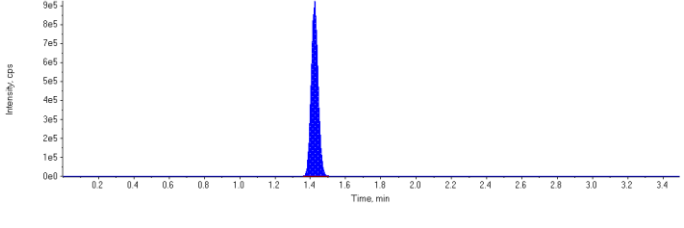
Sample Name	STD 4	Injection Vial	6
Sample ID	STD 4	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 9:16:09 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	167000.	1.67	1.00	-
MPFHpA	516000.	1.69	1.00	-
MPFOA	425000.	1.87	1.00	-
MPFOS	214000.	1.96	1.00	-
MPFNA	359000.	2.01	1.00	-
13C6-PFHxA IS	2530000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	1390000	1.09	30.0	29.9	99.6
PFHxS 1	1570000	1.67	30.0	32.4	108.0
PFHpA 1	1940000	1.69	30.0	31.6	105.0
PFOA 1	2010000	1.87	30.0	32.4	108.0
PFOS 1	1010000	1.95	30.0	30.5	102.0
PFNA 1	1420000	2.01	30.0	30.0	100.0
18O2-PFHxS	167000	1.67	100.	102.	102.0
13C4-PFHpA	516000	1.69	100.	106.	106.0
13C4-PFOA	425000	1.87	100.	100.	100.0
13C4-PFOS	214000	1.96	100.	107.	107.0
13C5-PFNA	359000	2.01	100.	106.	106.0
13C6-PFHxA	2530000	1.42	100.	102.	102.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

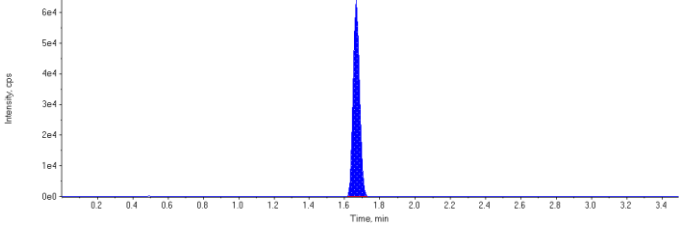
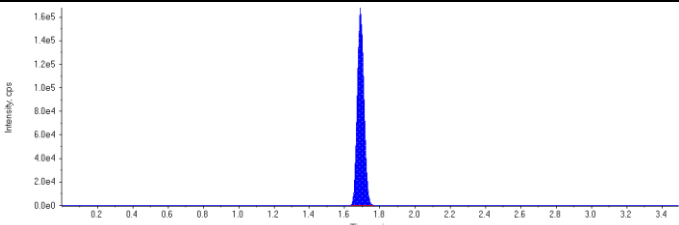
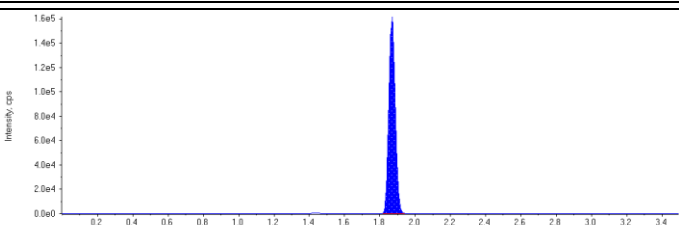
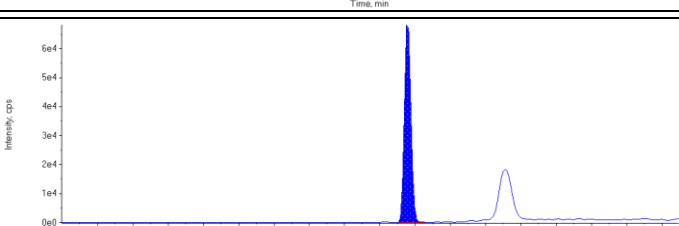
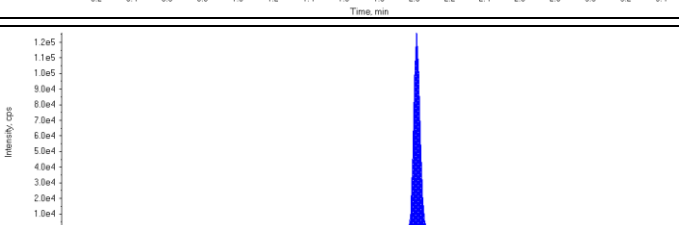
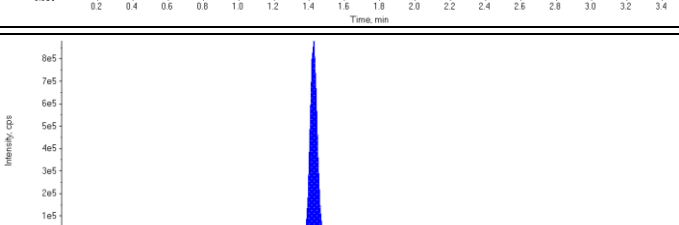
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 29.9 ng/L</p> <p>Area Ratio: 8.30</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 32.4 ng/L</p> <p>Area Ratio: 9.37</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 31.6 ng/L</p> <p>Area Ratio: 3.76</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 32.4 ng/L</p> <p>Area Ratio: 4.73</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 30.5 ng/L</p> <p>Area Ratio: 4.70</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 30.0 ng/L</p> <p>Area Ratio: 3.97</p> <p>Sample Type: (Standard)</p>	

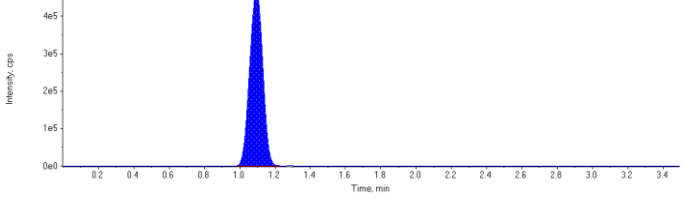
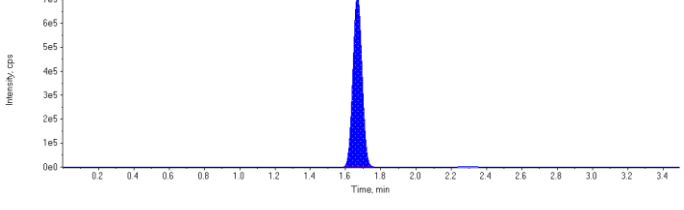
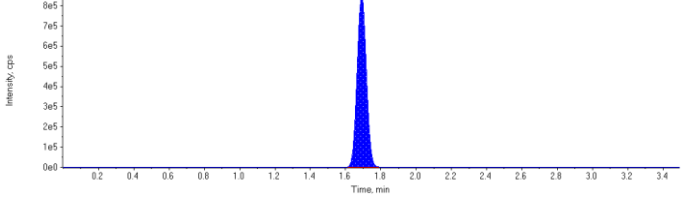
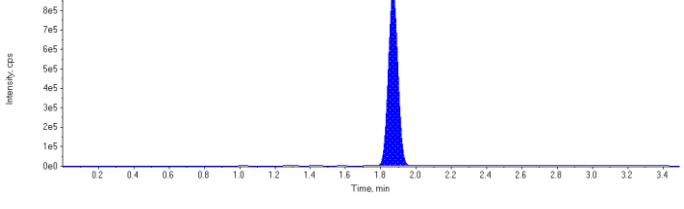
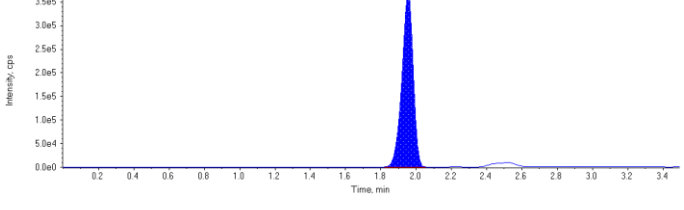
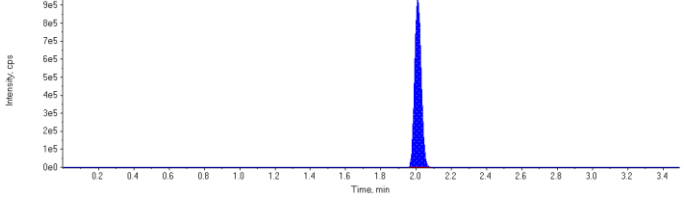
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 102. ng/L</p> <p>Area Ratio: 0.0660</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 106. ng/L</p> <p>Area Ratio: 0.204</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 100. ng/L</p> <p>Area Ratio: 0.168</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 107. ng/L</p> <p>Area Ratio: 0.0844</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 106. ng/L</p> <p>Area Ratio: 0.142</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 102. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

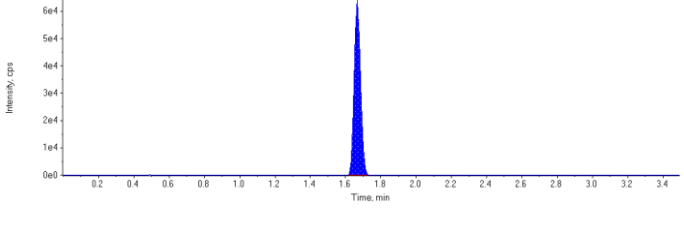
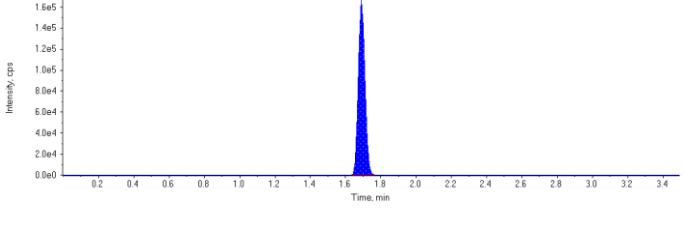
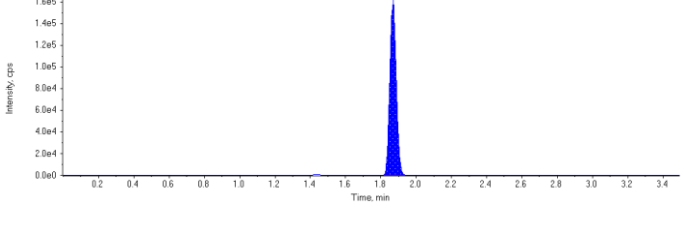
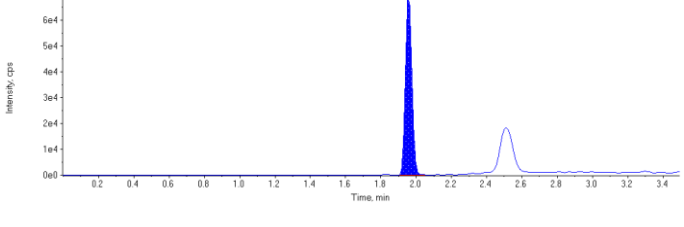
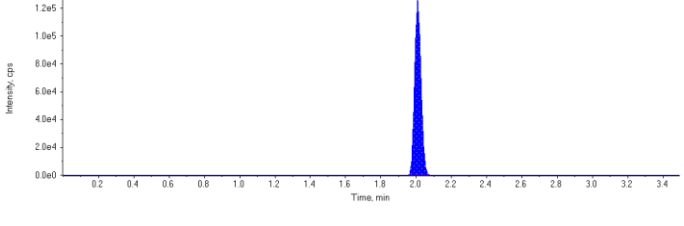
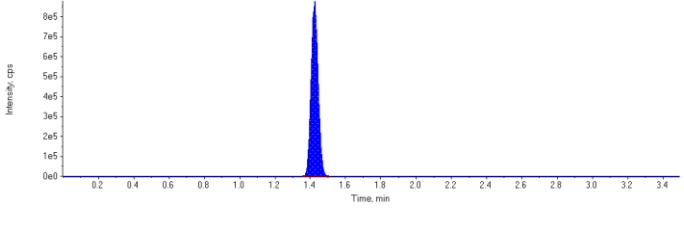
Sample Name	STD 5	Injection Vial	7
Sample ID	STD 5	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 9:21:15 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	160000.	1.67	1.00	-
MPFHpA	431000.	1.69	1.00	-
MPFOA	409000.	1.87	1.00	-
MPFOS	177000.	1.96	1.00	-
MPFNA	316000.	2.01	1.00	-
13C6-PFHxA IS	2470000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	2410000	1.09	60.0	53.6	89.4
PFHxS 1	2580000	1.67	60.0	55.6	92.6
PFHpA 1	3110000	1.69	60.0	60.5	101.0
PFOA 1	3370000	1.87	60.0	56.5	94.1
PFOS 1	1630000	1.95	60.0	59.1	98.4
PFNA 1	2430000	2.01	60.0	58.2	97.0
18O2-PFHxS	160000	1.67	100.	101.	101.0
13C4-PFHpA	431000	1.69	100.	90.9	90.9
13C4-PFOA	409000	1.87	100.	99.0	99.0
13C4-PFOS	177000	1.96	100.	91.2	91.2
13C5-PFNA	316000	2.01	100.	95.6	95.6
13C6-PFHxA	2470000	1.42	100.	99.6	99.6

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

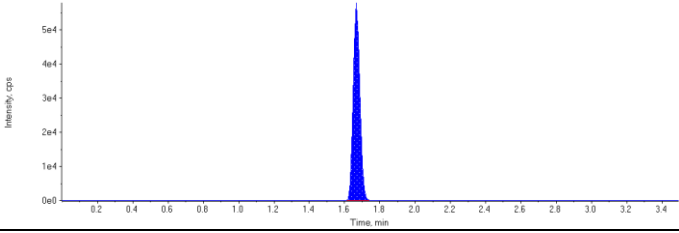
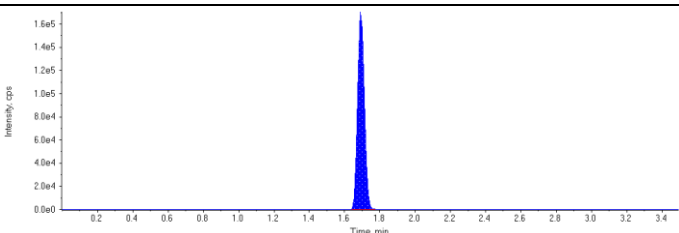
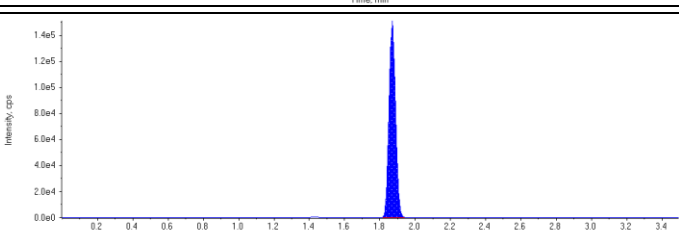
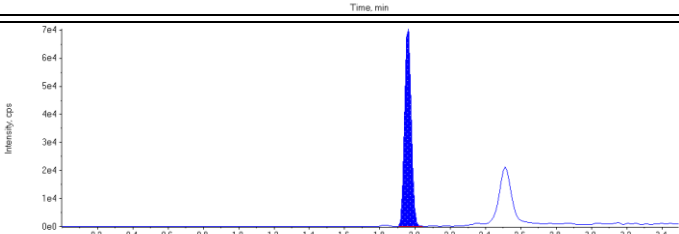
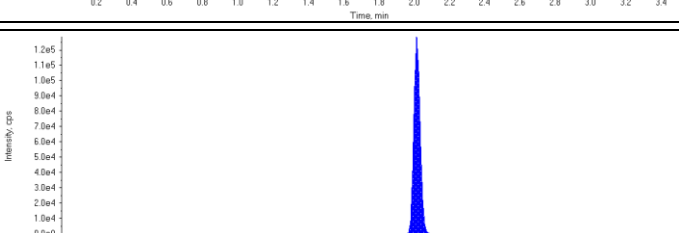
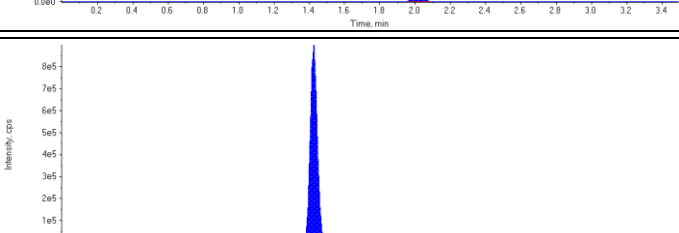
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 53.6 ng/L</p> <p>Area Ratio: 15.0</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 55.6 ng/L</p> <p>Area Ratio: 16.1</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 60.5 ng/L</p> <p>Area Ratio: 7.22</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 56.5 ng/L</p> <p>Area Ratio: 8.24</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 59.1 ng/L</p> <p>Area Ratio: 9.17</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 58.2 ng/L</p> <p>Area Ratio: 7.70</p> <p>Sample Type: (Standard)</p>	

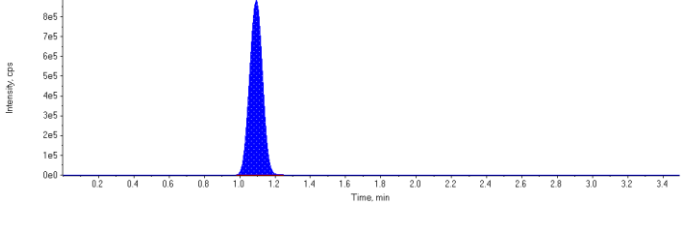
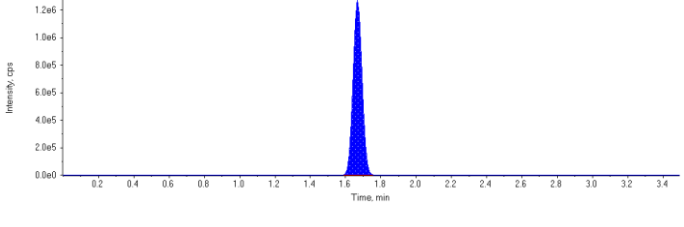
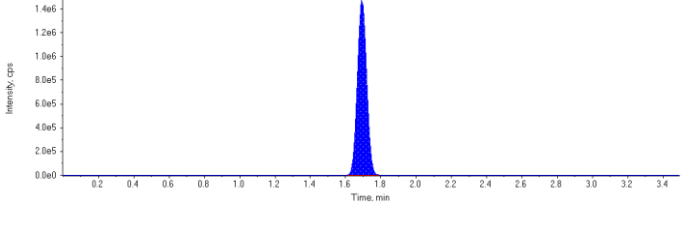
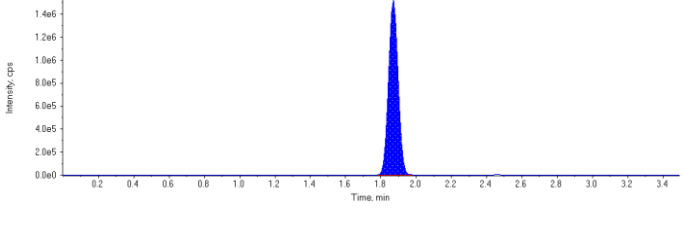
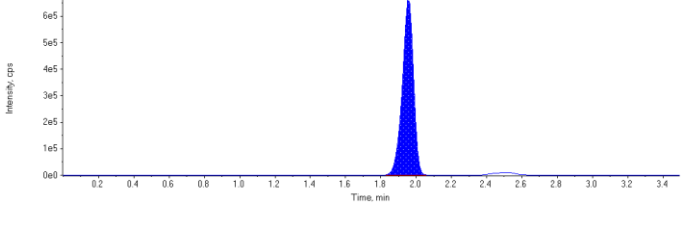
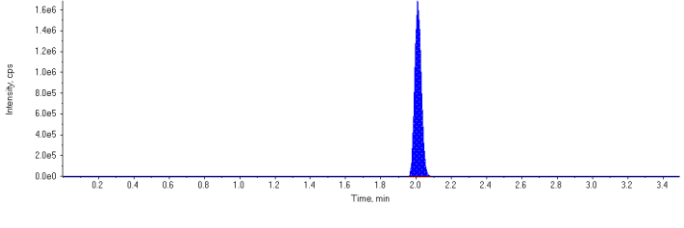
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.0650</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 90.9 ng/L</p> <p>Area Ratio: 0.174</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 99.0 ng/L</p> <p>Area Ratio: 0.166</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 91.2 ng/L</p> <p>Area Ratio: 0.0719</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 95.6 ng/L</p> <p>Area Ratio: 0.128</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 99.6 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

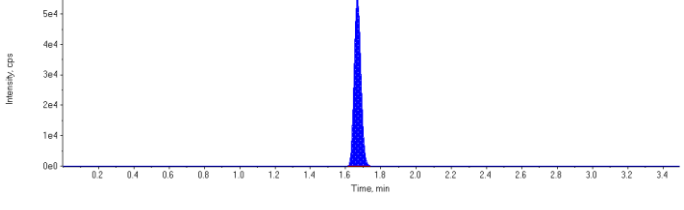
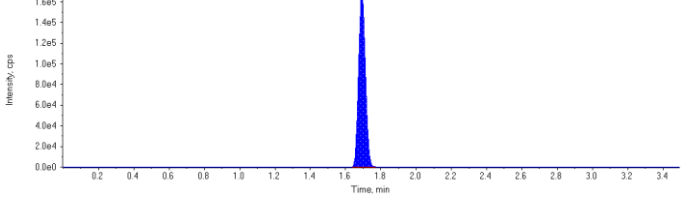
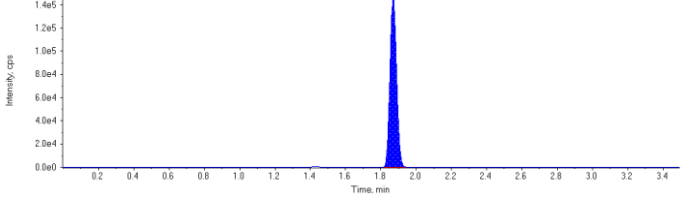
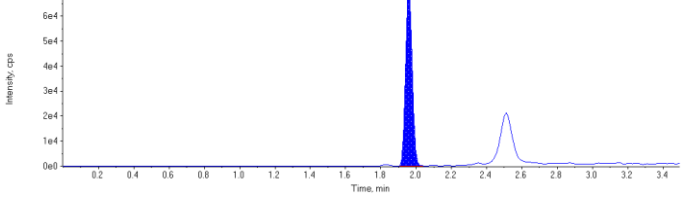
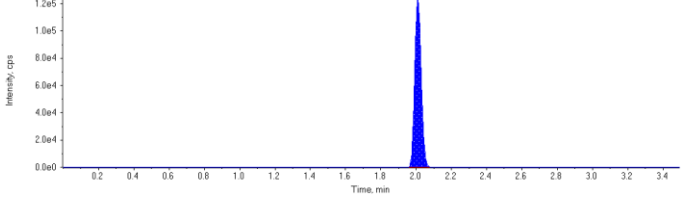
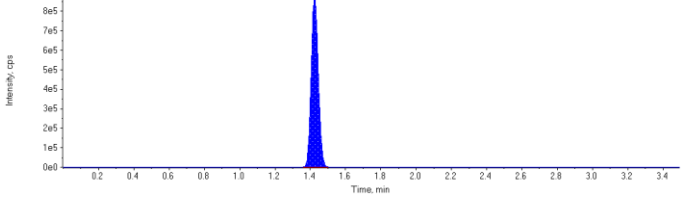
Sample Name	STD 6	Injection Vial	8
Sample ID	STD 6	Injection Volume (µL)	3
Sample Type	Standard	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 9:26:22 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	150000.	1.67	1.00	-
MPFHpA	453000.	1.69	1.00	-
MPFOA	386000.	1.87	1.00	-
MPFOS	185000.	1.96	1.00	-
MPFNA	318000.	2.01	1.00	-
13C6-PFHxA IS	2480000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	4540000	1.09	100.	108.	108.0
PFHxS 1	4500000	1.67	100.	103.	103.0
PFHpA 1	5360000	1.69	100.	98.9	98.9
PFOA 1	5730000	1.87	100.	102.	102.0
PFOS 1	2910000	1.96	100.	101.	101.0
PFNA 1	4300000	2.01	100.	102.	102.0
18O2-PFHxS	150000	1.67	100.	93.4	93.4
13C4-PFHpA	453000	1.69	100.	95.1	95.1
13C4-PFOA	386000	1.87	100.	93.1	93.1
13C4-PFOS	185000	1.96	100.	94.4	94.4
13C5-PFNA	318000	2.01	100.	95.8	95.8
13C6-PFHxA	2480000	1.42	100.	100.	100.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Standard)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Standard)</p>	<p style="text-align: center;">This image is not available</p>

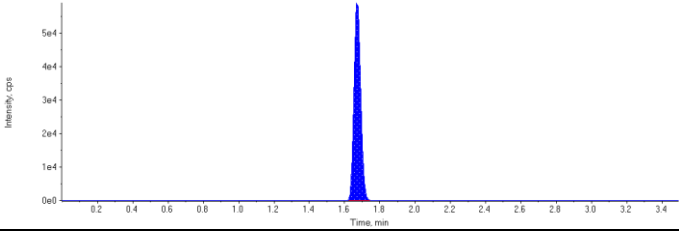
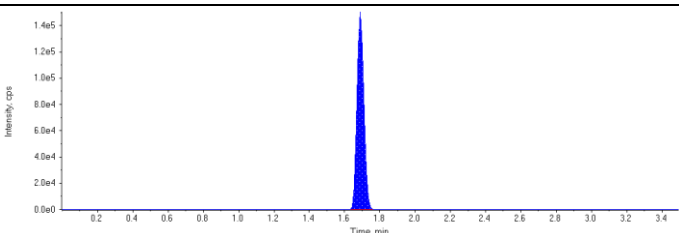
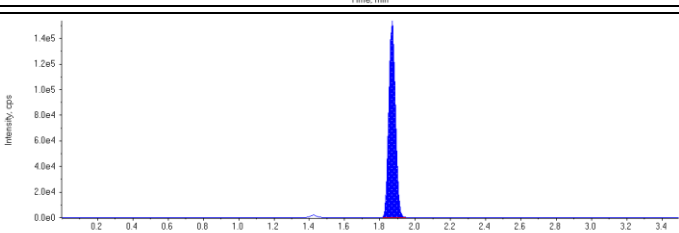
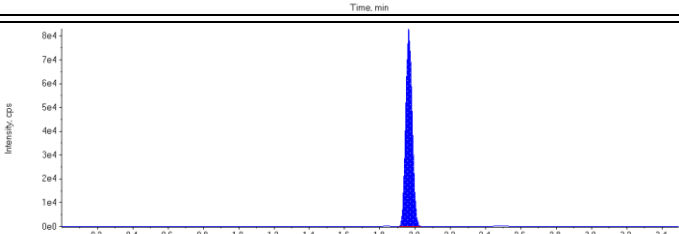
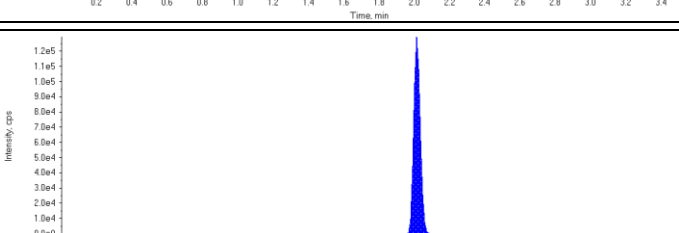
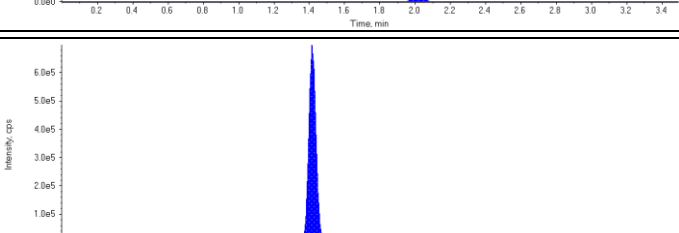
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 108. ng/L</p> <p>Area Ratio: 30.3</p> <p>Sample Type: (Standard)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 30.1</p> <p>Sample Type: (Standard)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 98.9 ng/L</p> <p>Area Ratio: 11.8</p> <p>Sample Type: (Standard)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 102. ng/L</p> <p>Area Ratio: 14.8</p> <p>Sample Type: (Standard)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 15.8</p> <p>Sample Type: (Standard)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 102. ng/L</p> <p>Area Ratio: 13.5</p> <p>Sample Type: (Standard)</p>	

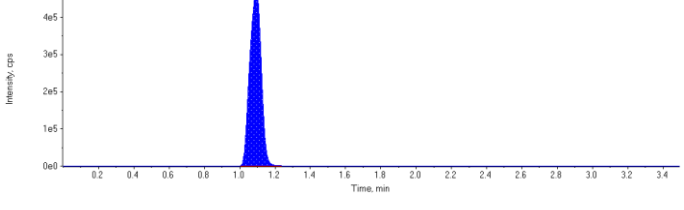
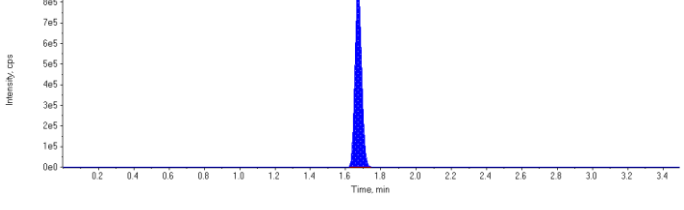
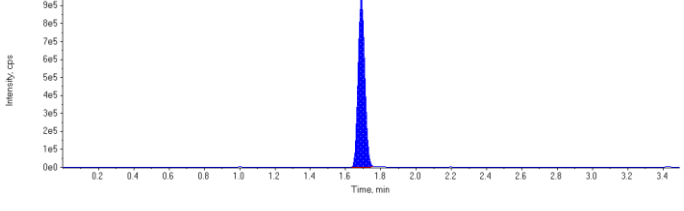
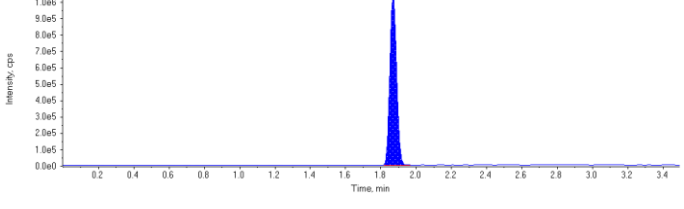
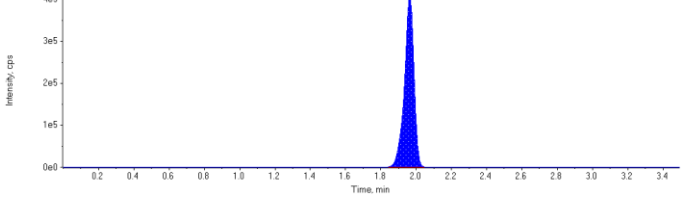
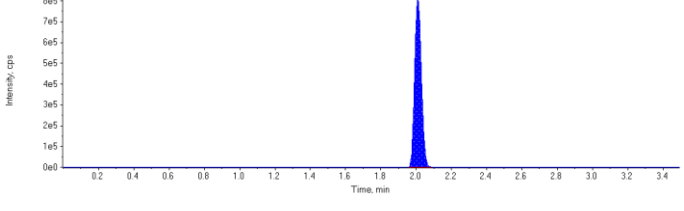
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 93.4 ng/L</p> <p>Area Ratio: 0.0603</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 95.1 ng/L</p> <p>Area Ratio: 0.182</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 93.1 ng/L</p> <p>Area Ratio: 0.156</p> <p>Sample Type: (Standard)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 94.4 ng/L</p> <p>Area Ratio: 0.0744</p> <p>Sample Type: (Standard)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 95.8 ng/L</p> <p>Area Ratio: 0.128</p> <p>Sample Type: (Standard)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 100. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Standard)</p>	

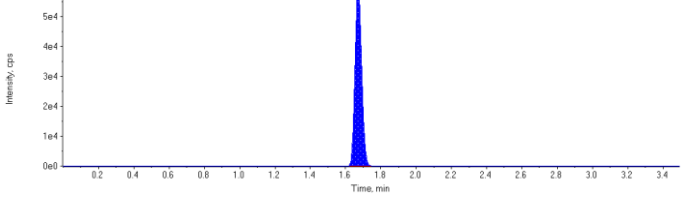
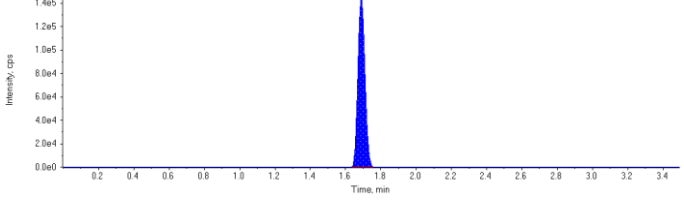
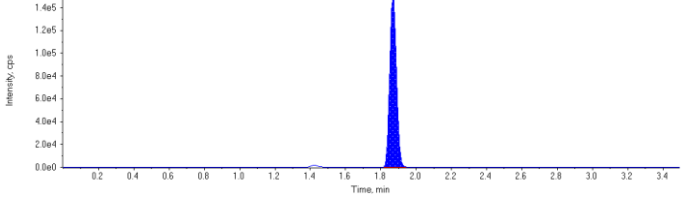
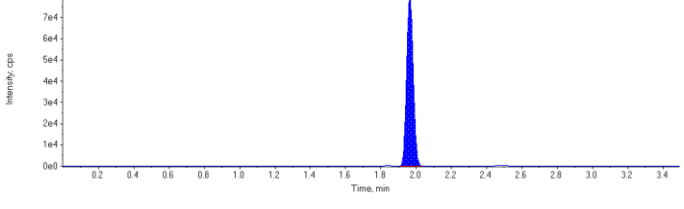
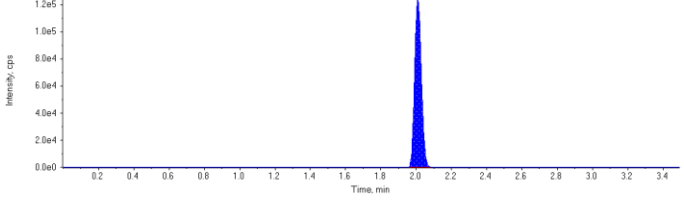
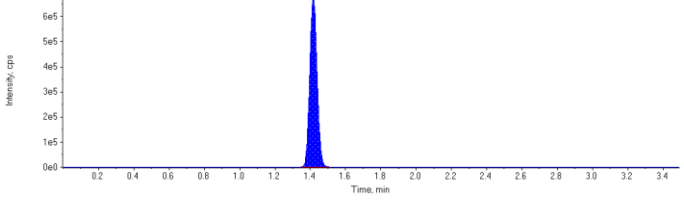
Sample Name	ICV	Injection Vial	9
Sample ID	ICV	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:31:40 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	157000.	1.67	1.00	-
MPFHpA	404000.	1.69	1.00	-
MPFOA	400000.	1.87	1.00	-
MPFOS	209000.	1.96	1.00	-
MPFNA	331000.	2.01	1.00	-
13C6-PFHxA IS	1970000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	2140000	1.09	50.0	45.0	90.0
PFHxS 1	2280000	1.67	50.0	49.1	98.1
PFHpA 1	2520000	1.69	50.0	50.3	101.0
PFOA 1	2780000	1.87	50.0	47.9	95.8
PFOS 1	1540000	1.96	50.0	43.7	87.4
PFNA 1	2160000	2.01	50.0	49.0	98.1
18O2-PFHxS	157000	1.67	100.	99.7	99.7
13C4-PFHpA	404000	1.69	100.	88.8	88.8
13C4-PFOA	400000	1.87	100.	97.8	97.8
13C4-PFOS	209000	1.96	100.	103.	103.0
13C5-PFNA	331000	2.01	100.	95.8	95.8
13C6-PFHxA	1970000	1.42	100.	100.	100.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

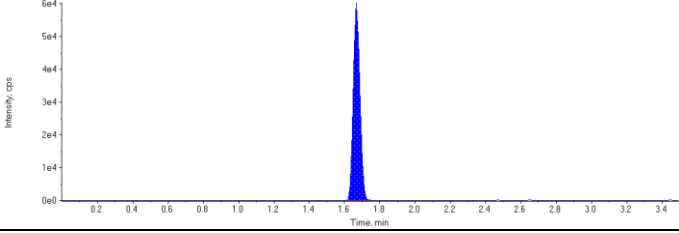
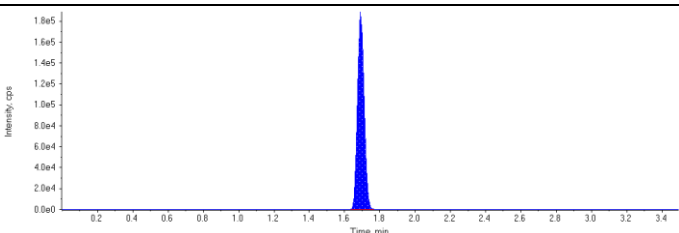
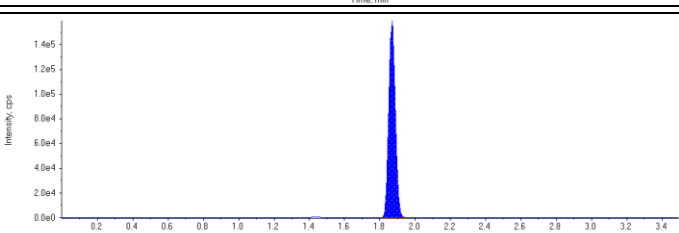
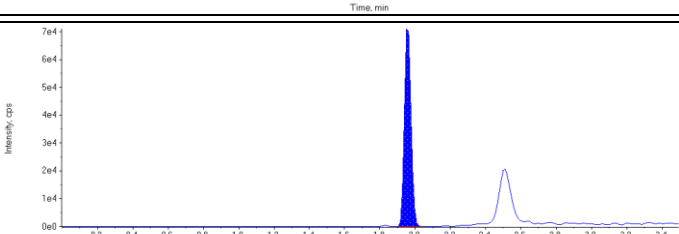
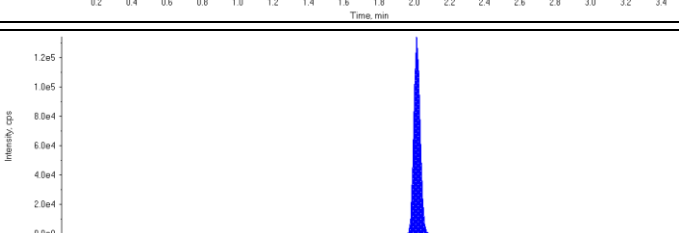
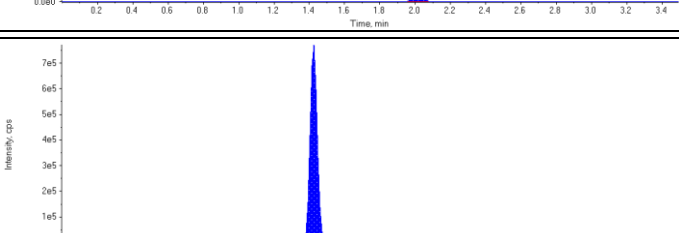
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 45.0 ng/L</p> <p>Area Ratio: 13.6</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 49.1 ng/L</p> <p>Area Ratio: 14.5</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 50.3 ng/L</p> <p>Area Ratio: 6.23</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 47.9 ng/L</p> <p>Area Ratio: 6.94</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 43.7 ng/L</p> <p>Area Ratio: 7.33</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 49.0 ng/L</p> <p>Area Ratio: 6.54</p> <p>Sample Type: (Quality Control)</p>	

<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 99.7 ng/L</p> <p>Area Ratio: 0.0799</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 88.8 ng/L</p> <p>Area Ratio: 0.205</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 97.8 ng/L</p> <p>Area Ratio: 0.203</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.106</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 95.8 ng/L</p> <p>Area Ratio: 0.168</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 100. ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

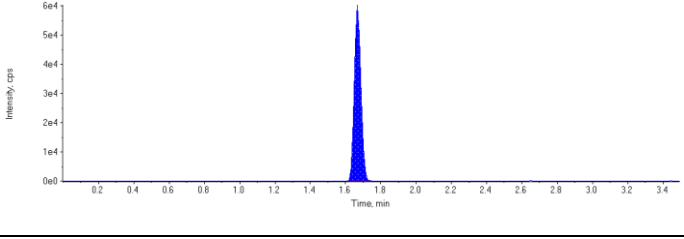
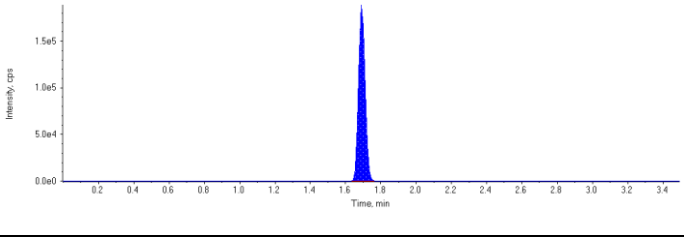
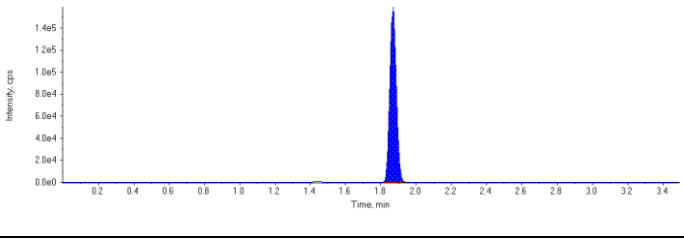
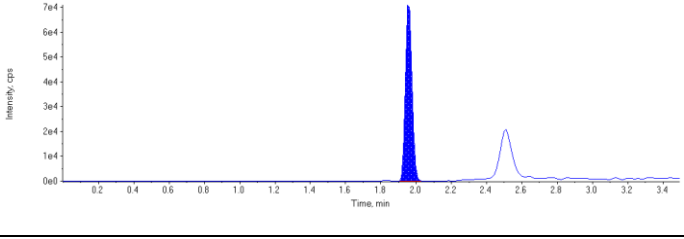
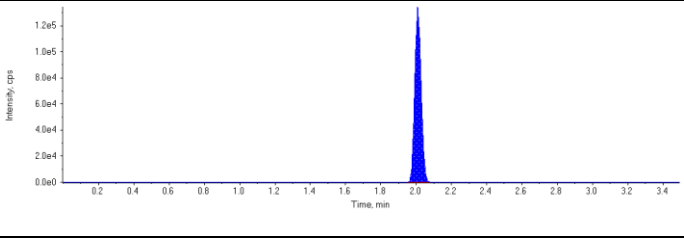
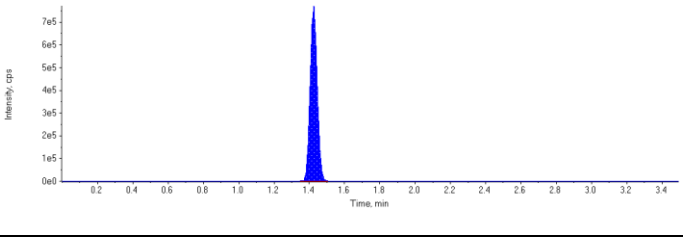
Sample Name	ICV	Injection Vial	9
Sample ID	ICV	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 9:41:39 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	156000.	1.67	1.00	-
MPFHpA	489000.	1.69	1.00	-
MPFOA	406000.	1.87	1.00	-
MPFOS	186000.	1.96	1.00	-
MPFNA	338000.	2.01	1.00	-
13C6-PFHxA IS	2180000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	2090000	1.09	50.0	48.0	96.0
PFHxS 1	2190000	1.67	50.0	48.6	97.2
PFHpA 1	2650000	1.69	50.0	45.3	90.7
PFOA 1	2580000	1.87	50.0	43.5	87.1
PFOS 1	1340000	1.96	50.0	46.5	93.0
PFNA 1	2170000	2.01	50.0	48.4	96.8
18O2-PFHxS	156000	1.67	100.	111.	111.0
13C4-PFHpA	489000	1.69	100.	117.	117.0
13C4-PFOA	406000	1.87	100.	112.	112.0
13C4-PFOS	186000	1.96	100.	108.	108.0
13C5-PFNA	338000	2.01	100.	116.	116.0
13C6-PFHxA	2180000	1.42	100.	87.9	87.9

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 48.0 ng/L</p> <p>Area Ratio: 13.4</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 48.6 ng/L</p> <p>Area Ratio: 14.1</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 45.3 ng/L</p> <p>Area Ratio: 5.41</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 43.5 ng/L</p> <p>Area Ratio: 6.35</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 46.5 ng/L</p> <p>Area Ratio: 7.21</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 48.4 ng/L</p> <p>Area Ratio: 6.41</p> <p>Sample Type: (Quality Control)</p>	

<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 111. ng/L</p> <p>Area Ratio: 0.0715</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 117. ng/L</p> <p>Area Ratio: 0.225</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 112. ng/L</p> <p>Area Ratio: 0.187</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 108. ng/L</p> <p>Area Ratio: 0.0855</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 116. ng/L</p> <p>Area Ratio: 0.155</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 87.9 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

Sample Name	Analyte	PFBS		PFHxS		PFHpA		PFOA		PFOS		PFNA	
	Mass labeled IS	MPFBS		MPFHxS		MPFHpA		MPFOA		MPFOS		MPFNA	
	Average IS Area in ICAL	157333		157333		454000		408000		202667		344667	
		IS Peak Area	IS %R (ICAL)	IS Peak Area	IS %R (ICAL)	IS Peak Area	IS %R (ICAL)	IS Peak Area	IS %R (ICAL)	IS Peak Area	IS %R (ICAL)	IS Peak Area	IS %R (ICAL)
4390179~BLANK		120000	76	120000	76	374000	82	361000	88	167000	82	292000	85
STD 1		153000	97	153000	97	441000	97	388000	95	206000	102	345000	100
STD 2		153000	97	153000	97	458000	101	409000	100	199000	98	326000	95
STD 3		164000	104	164000	104	465000	102	413000	101	200000	99	353000	102
STD 4		163000	104	163000	104	456000	100	407000	100	203000	100	370000	107
STD 5		158000	100	158000	100	454000	100	415000	102	215000	106	340000	99
STD 6		153000	97	153000	97	450000	99	416000	102	193000	95	334000	97
ICV		157000	100	157000	100	404000	89	400000	98	209000	103	331000	96
CCV		155000	99	155000	99	431000	95	384000	94	200000	99	332000	96
4390179~MTRX SPK		108000	69	108000	69	303000	67	268000	66	120000	59	208000	60
4390179~MTRX SPK:D1		115000	73	115000	73	335000	74	316000	77	143000	71	243000	71
4390179~SPIKE		107000	68	107000	68	316000	70	310000	76	152000	75	244000	71
4390179~BVX757-01		82300	52	82300	52	258000	57	238000	58	107000	53	170000	49
4390179~BVX758-01		161000	102	161000	102	471000	104	432000	106	179000	88	304000	88
4390179~BVX759-01		92600	59	92600	59	285000	63	270000	66	124000	61	206000	60
4390179~BVX760-01		101000	64	101000	64	268000	59	257000	63	107000	53	182000	53
4390179~BVX761-01		90900	58	90900	58	285000	63	253000	62	121000	60	189000	55
4390179~BVX762-01		76300	48	76300	48	243000	54	225000	55	86400	43	180000	52
4390179~BVX763-01		72100	46	72100	46	197000	43	187000	46	85300	42	142000	41
4390179~BVX764-01		63700	40	63700	40	182000	40	171000	42	69200	34	128000	37
4390179~BVX765-01		83100	53	83100	53	248000	55	229000	56	113000	56	177000	51
4390179~BVX766-01		112000	71	112000	71	308000	68	278000	68	120000	59	196000	57
CCV		130000	83	130000	83	430000	95	375000	92	192000	95	324000	94
4390179~BVX767-01		72200	46	72200	46	189000	42	193000	47	92700	46	151000	44
4390179~BVX768-01		82200	52	82200	52	266000	59	241000	59	98600	49	167000	48
4390179~BWH243-01		76900	49	76900	49	248000	55	221000	54	109000	54	178000	52
4390179~BWH244-01		107000	68	107000	68	272000	60	255000	63	116000	57	193000	56
4390179~BWH245-01		94100	60	94100	60	280000	62	261000	64	122000	60	201000	58
4390179~BWH246-01		98400	63	98400	63	273000	60	246000	60	104000	51	187000	54
4390179~BWH247-01		101000	64	101000	64	309000	68	301000	74	137000	68	225000	65
4390179~BWH248-01		82000	52	82000	52	245000	54	232000	57	96600	48	161000	47
4390179~BWN123-01		86400	55	86400	55	237000	52	218000	53	106000	52	186000	54
4390179~BWN124-01		138000	88	138000	88	422000	93	384000	94	171000	84	312000	91
CCV		143000	91	143000	91	433000	95	395000	97	180000	89	319000	93

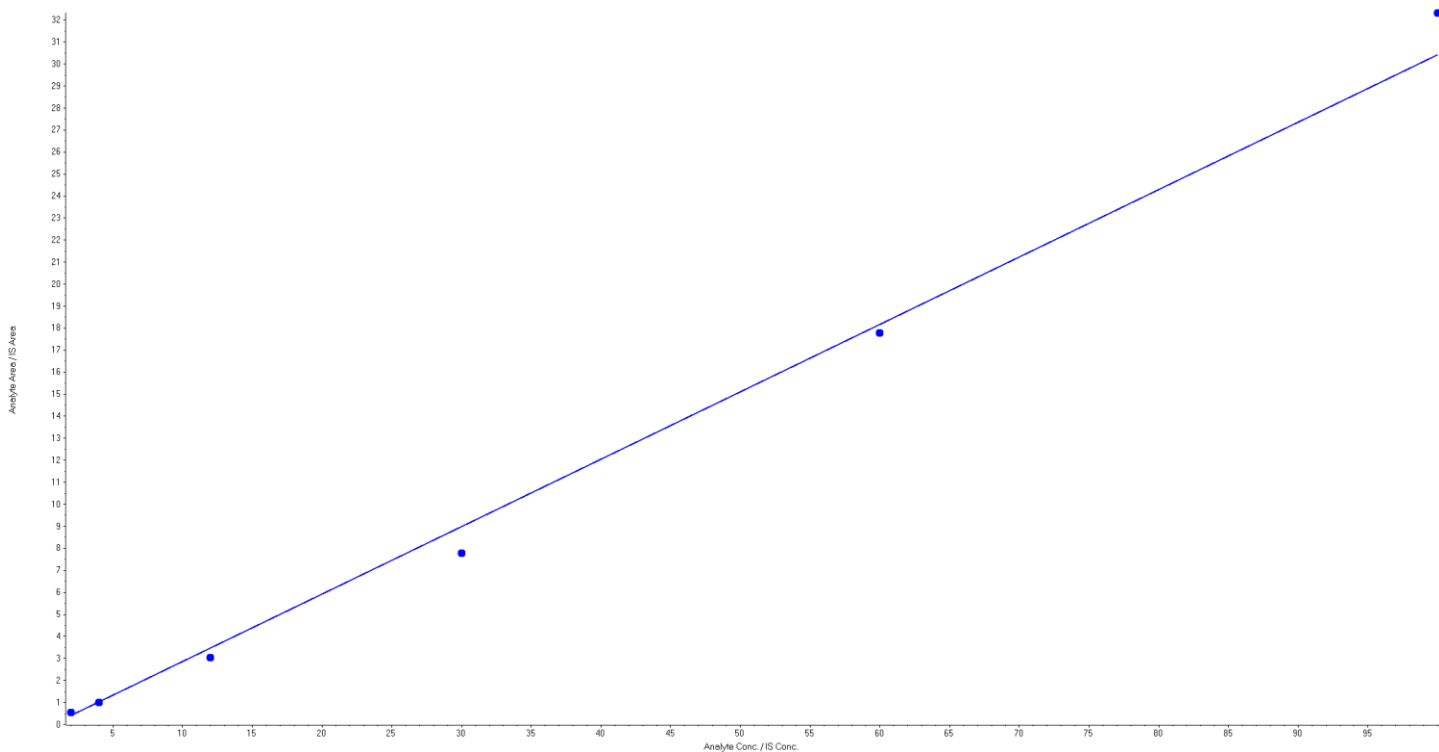
Sample Name	Analyte	PFBS		PFHxS		PFHpA		PFOA		PFOS		PFNA	
	Mass labeled IS	MPFHxS		MPFHxS		MPFHpA		MPFOA		MPFOS		MPFNA	
	Average IS Area in ICAL	159333		159333		475000		413667		195000		331000	
		IS Peak Area	IS %R (ICAL)	IS Peak Area	IS %R (ICAL)	IS Peak Area	IS %R (ICAL)	IS Peak Area	IS %R (ICAL)	IS Peak Area	IS %R (ICAL)	IS Peak Area	IS %R (ICAL)
STD 1		143000	90	143000	90	491000	103	404000	98	192000	98	325000	98
STD 2		165000	104	165000	104	475000	100	434000	105	198000	102	328000	99
STD 3		171000	107	171000	107	484000	102	424000	102	204000	105	340000	103
STD 4		167000	105	167000	105	516000	109	425000	103	214000	110	359000	108
STD 5		160000	100	160000	100	431000	91	409000	99	177000	91	316000	95
STD 6		150000	94	150000	94	453000	95	386000	93	185000	95	318000	96
ICV		156000	98	156000	98	489000	103	406000	98	186000	95	338000	102
CCV		159000	100	159000	100	477000	100	425000	103	223000	114	354000	107
4394551~BLANK		149000	94	149000	94	459000	97	445000	108	196000	101	322000	97
4394551~MTRX SPK		146000	92	146000	92	408000	86	393000	95	157000	81	278000	84
4394551~MTRX SPK:D1		153000	96	153000	96	433000	91	380000	92	153000	78	273000	82
4394551~SPIKE		171000	107	171000	107	506000	107	451000	109	201000	103	350000	106
4394551~BVX757-01		150000	94	150000	94	499000	105	393000	95	195000	100	314000	95
4394551~BVX758-01		159000	100	159000	100	468000	99	416000	101	162000	83	305000	92
4394551~BVX759-01		146000	92	146000	92	456000	96	403000	97	182000	93	284000	86
4394551~BVX760-01		142000	89	142000	89	433000	91	403000	97	169000	87	296000	89
4394551~BVX761-01		134000	84	134000	84	452000	95	391000	95	180000	92	310000	94
4394551~BVX762-01(50X)		154000	97	154000	97	461000	97	446000	108	213000	109	370000	112
4394551~BVX763-01		121000	76	121000	76	374000	79	390000	94	150000	77	298000	90
4394551~BVX764-01		126000	79	126000	79	379000	80	331000	80	121000	62	265000	80
4394551~BVX765-01		132000	83	132000	83	389000	82	363000	88	162000	83	271000	82
4394551~BVX766-01		146000	92	146000	92	425000	89	391000	95	164000	84	281000	85
CCV		154000	97	154000	97	421000	89	423000	102	210000	108	351000	106
4394551~BVX767-01		131000	82	131000	82	397000	84	375000	91	185000	95	279000	84
4394551~BVX768-01		141000	88	141000	88	421000	89	363000	88	163000	84	297000	90
4394551~BVX762-01(10X)		178000	112	178000	112	492000	104	477000	115	217000	111	364000	110
4394551~BVX762-01		128000	80	128000	80	400000	84	400000	97	139000	71	306000	92
CCV		164000	103	164000	103	475000	100	406000	98	214000	110	359000	108
4394551~MTRX SPK		153000	96	153000	96	403000	85	387000	94	160000	82	281000	85
4394551~MTRX SPK:D1		146000	92	146000	92	418000	88	374000	90	152000	78	295000	89
4394551~SPIKE		164000	103	164000	103	477000	100	465000	112	215000	110	355000	107
CCV		158000	99	158000	99	471000	99	416000	101	208000	107	348000	105

Analyte Name: PFBS 1
Internal Standard: MPFHxS

Data File	PFC_160223\WS#4390179.wiff	Result Table	PFC_Water_160223_4390179_ULow.rdb
Acquisition Date	2016/02/23 1:55:57 PM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.306 x + -0.197$ (r = 0.9965)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	2.43	121.5
4	1	3.96	99.0
12	1	10.61	88.4
30	1	26.11	87.0
60	1	58.71	97.8
100	1	106.19	106.2

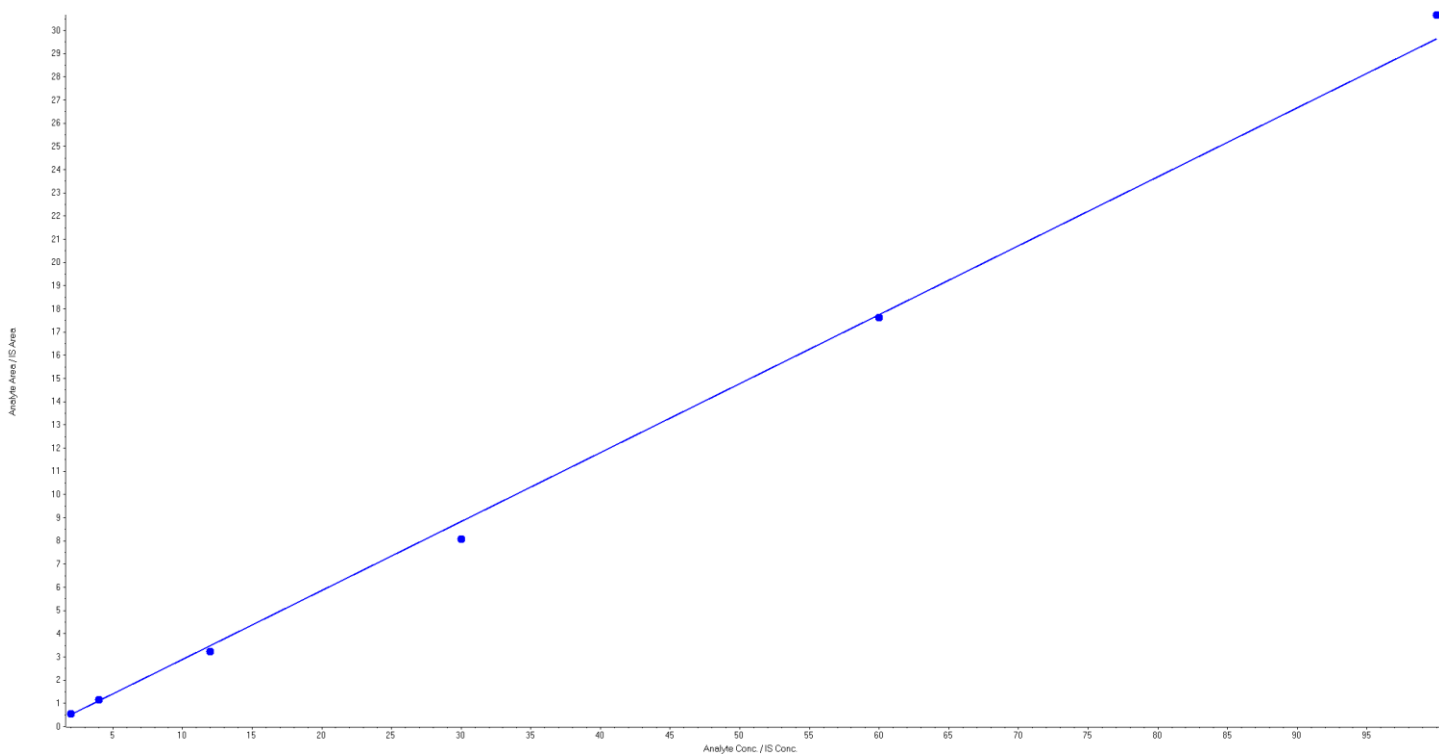


Analyte Name: PFHxS 1
Internal Standard: MPFHxS

Data File	PFC_160223\WS#4390179.wiff	Result Table	PFC_Water_160223_4390179_ULow.rdb
Acquisition Date	2016/02/23 1:55:57 PM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.297 x + -0.0803$ (r = 0.9987)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	2.16	107.9
4	1	4.19	104.8
12	1	11.18	93.2
30	1	27.42	91.4
60	1	59.61	99.3
100	1	103.45	103.4

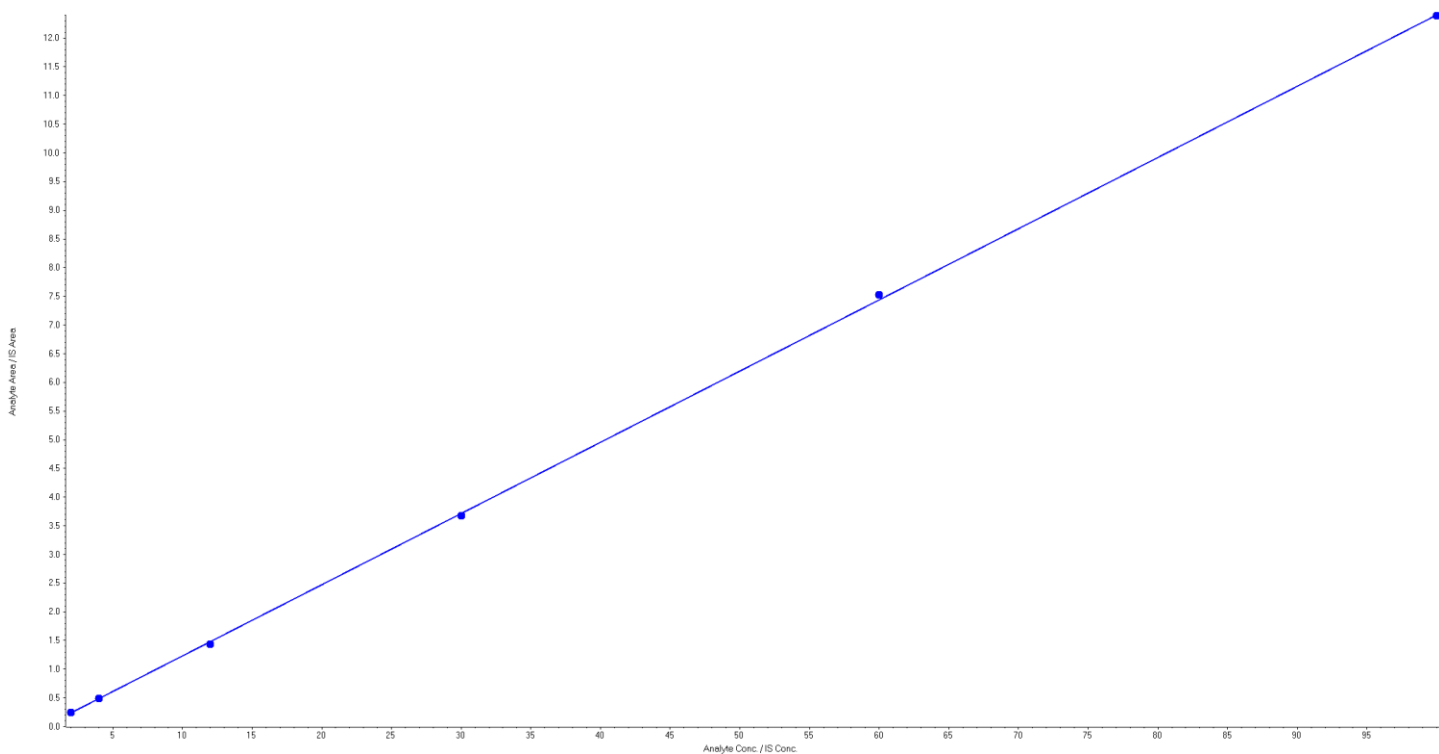


Analyte Name: PFHpA 1
Internal Standard: MPFHpA

Data File	PFC_160223\WS#4390179.wiff	Result Table	PFC_Water_160223_4390179_ULow.rdb
Acquisition Date	2016/02/23 1:55:57 PM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.124 x + -0.0099$ (r = 0.9999)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	2.06	103.0
4	1	4.00	100.0
12	1	11.63	96.9
30	1	29.69	99.0
60	1	60.69	101.1
100	1	99.93	99.9

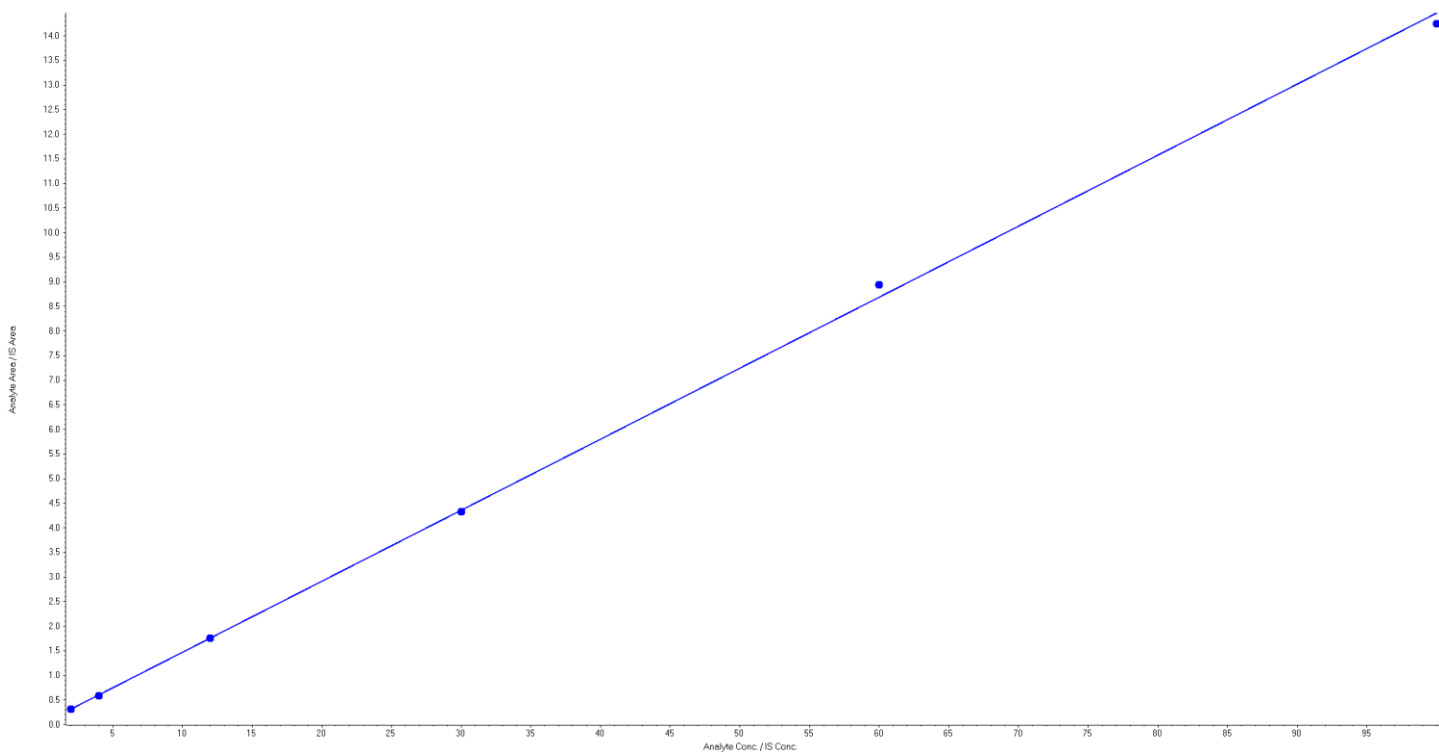


Analyte Name: PFOA 1
Internal Standard: MPFOA

Data File	PFC_160223\WS#4390179.wiff	Result Table	PFC_Water_160223_4390179_ULow.rdb
Acquisition Date	2016/02/23 1:55:57 PM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.144 x + 0.0249$ (r = 0.9998)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	2.03	101.3
4	1	3.92	98.0
12	1	11.97	99.8
30	1	29.84	99.5
60	1	61.75	102.9
100	1	98.49	98.5

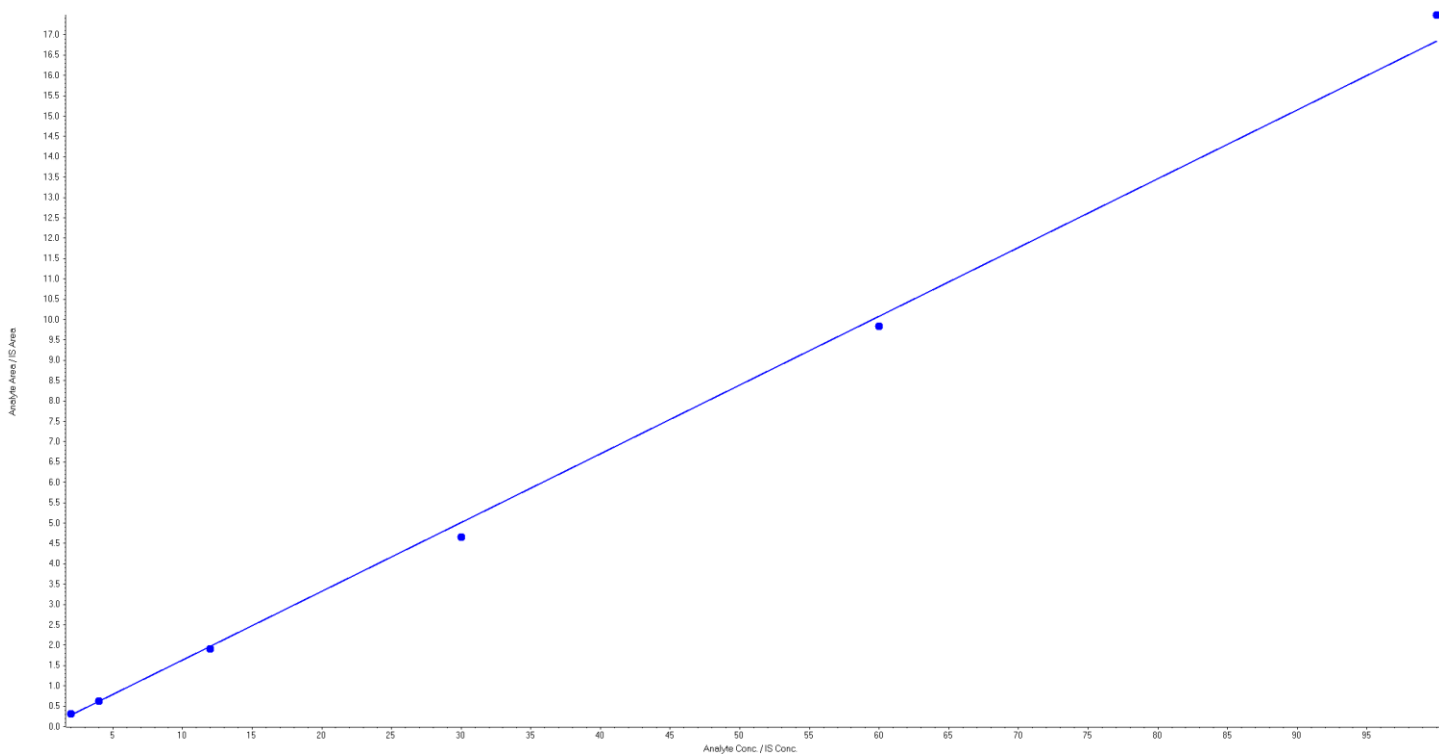


Analyte Name: PFOS 1
Internal Standard: MPFOS

Data File	PFC_160223\WS#4390179.wiff	Result Table	PFC_Water_160223_4390179_ULow.rdb
Acquisition Date	2016/02/23 1:55:57 PM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.169x + -0.0565$ (r = 0.9989)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	2.17	108.5
4	1	4.00	100.1
12	1	11.67	97.3
30	1	27.84	92.8
60	1	58.53	97.5
100	1	103.79	103.8

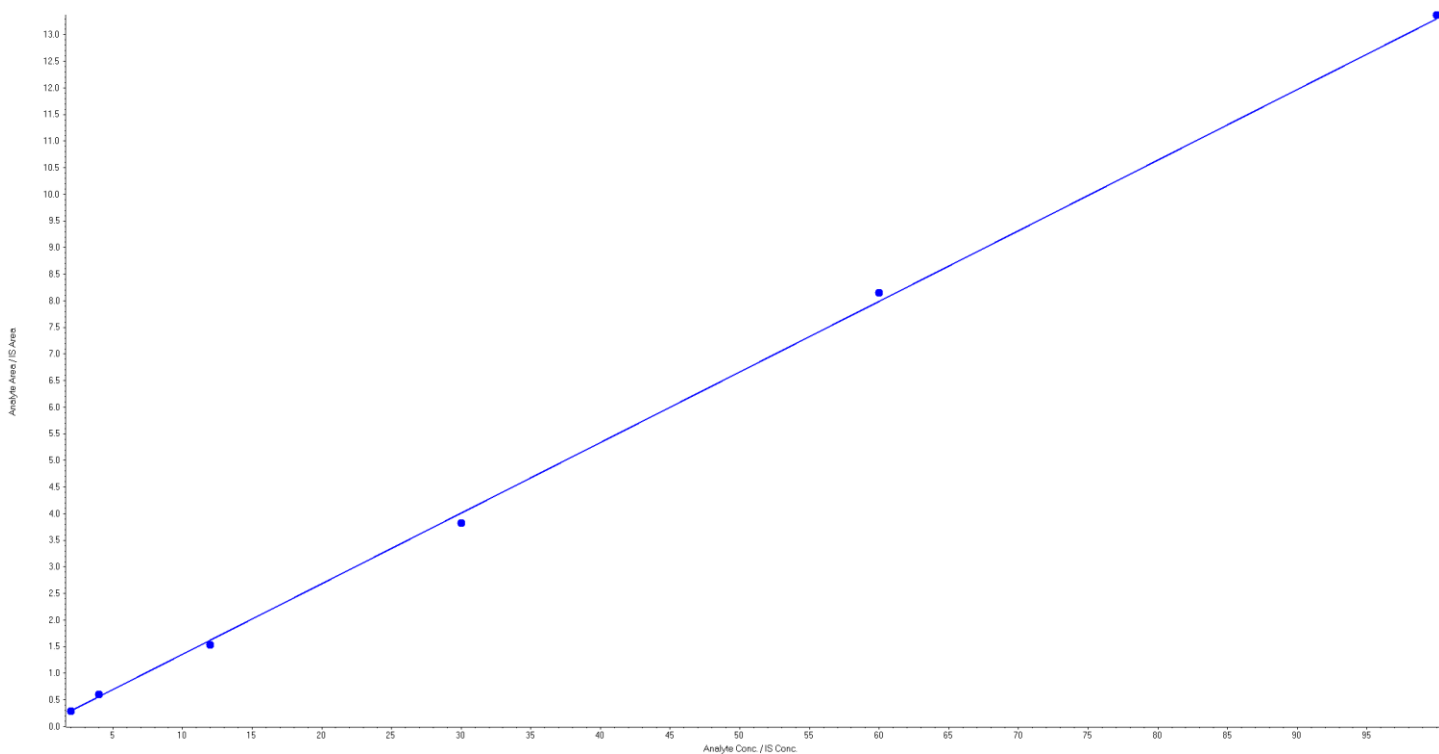


Analyte Name: PFNA 1
Internal Standard: MPFNA

Data File	PFC_160223\WS#4390179.wiff	Result Table	PFC_Water_160223_4390179_ULow.rdb
Acquisition Date	2016/02/23 1:55:57 PM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.133 x + 0.0302$ (r = 0.9995)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	1.97	98.5
4	1	4.36	109.1
12	1	11.36	94.6
30	1	28.56	95.2
60	1	61.21	102.0
100	1	100.54	100.5

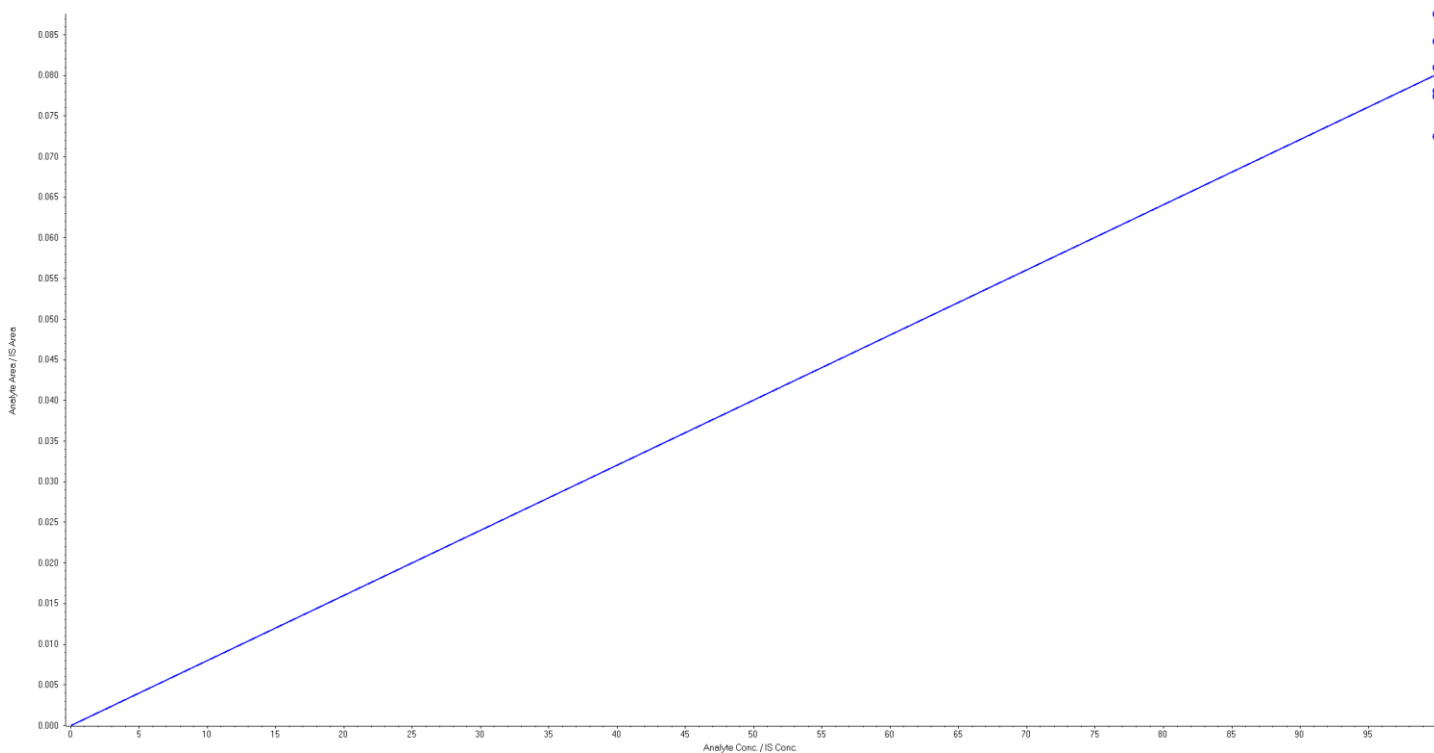


Analyte Name: 18O2-PFHxS
Internal Standard: 13C6-PFHxA IS

Data File	PFC_160223\WS#4390179.wiff	Result Table	PFC_Water_160223_4390179_ULow.rdb
Acquisition Date	2016/02/23 1:55:57 PM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.000801 x (r = 0.9982)$

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
100	6	100.00	100.0

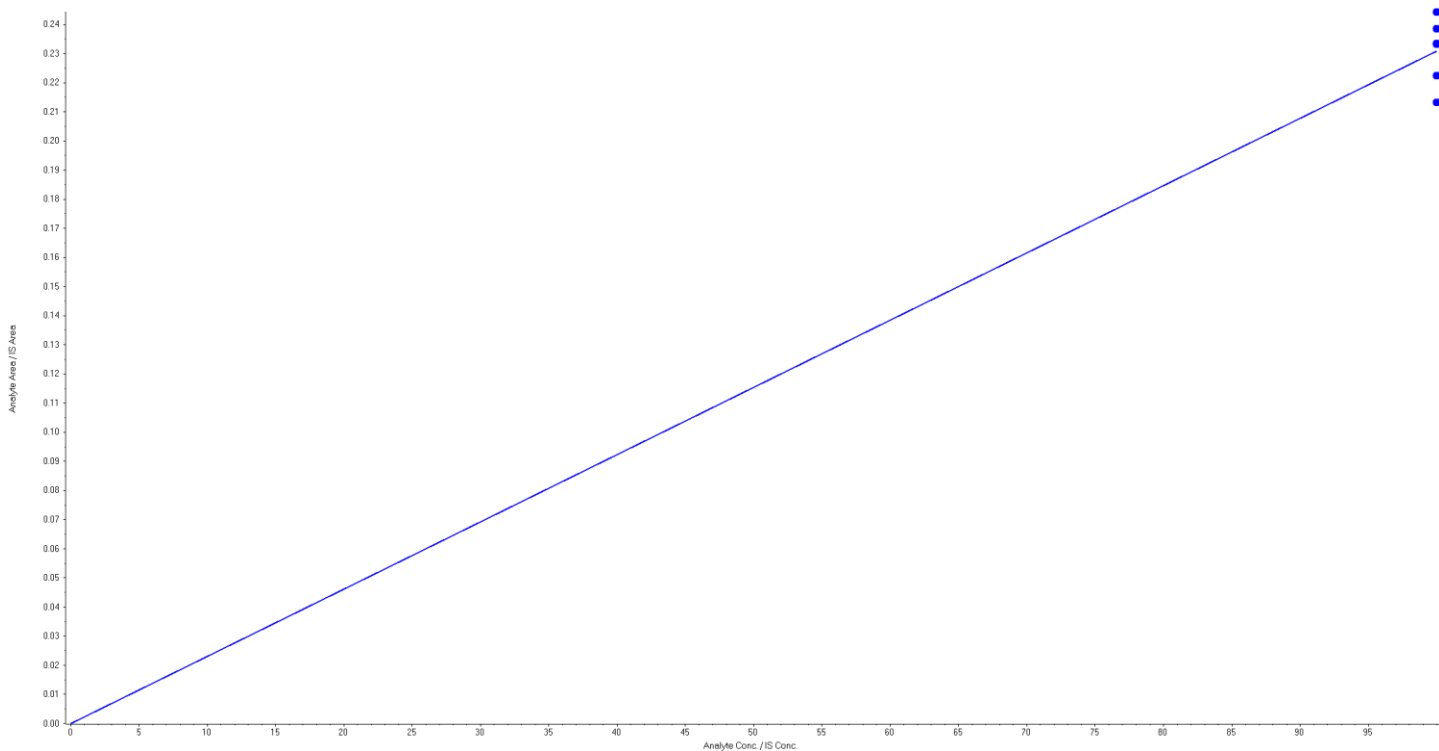


Analyte Name: 13C4-PFHpA
Internal Standard: 13C6-PFHxA IS

Data File	PFC_160223\WS#4390179.wiff	Result Table	PFC_Water_160223_4390179_ULow.rdb
Acquisition Date	2016/02/23 1:55:57 PM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.00231 x (r = 0.9990)$

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
100	6	100.00	100.0

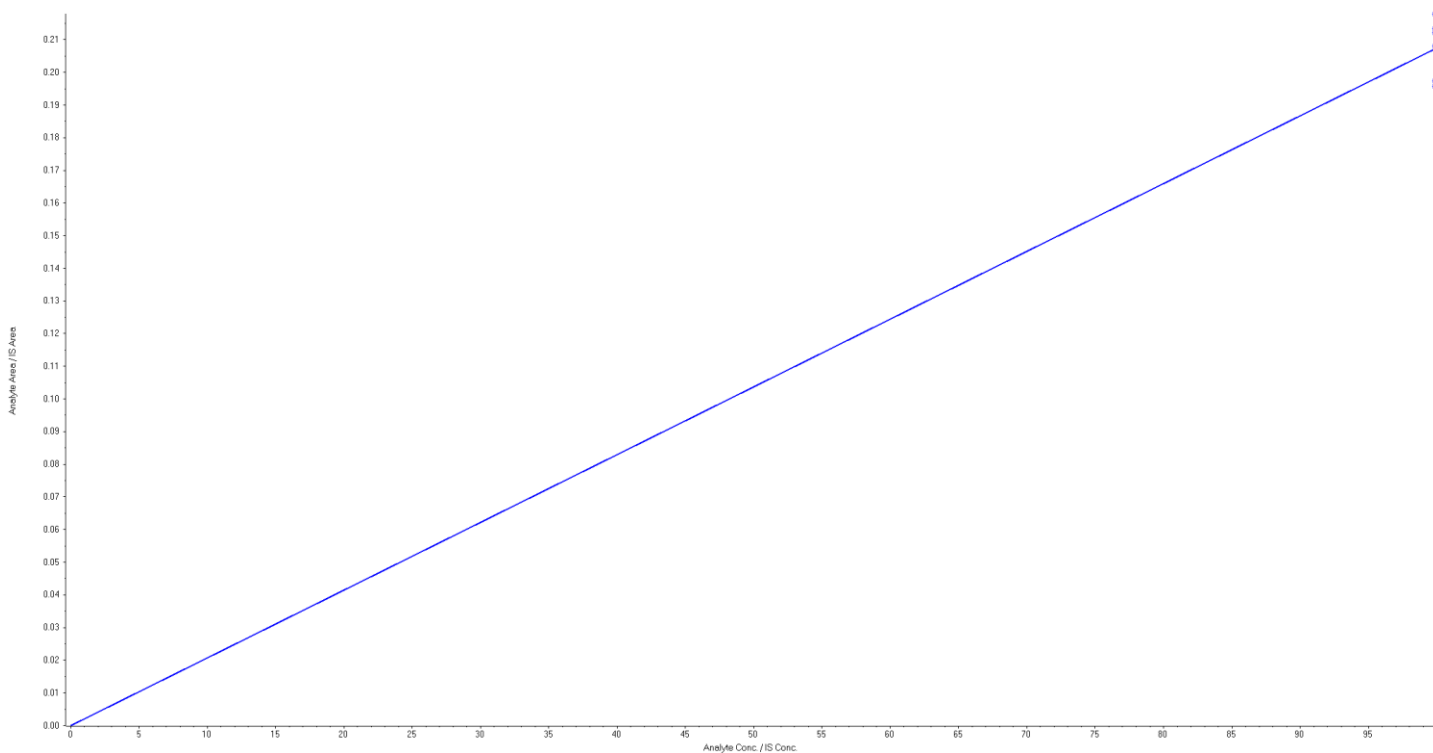


Analyte Name: 13C4-PFOA
Internal Standard: 13C6-PFHxA IS

Data File	PFC_160223\WS#4390179.wiff	Result Table	PFC_Water_160223_4390179_ULow.rdb
Acquisition Date	2016/02/23 1:55:57 PM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.00207 x (r = 0.9992)$

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
100	6	100.00	100.0

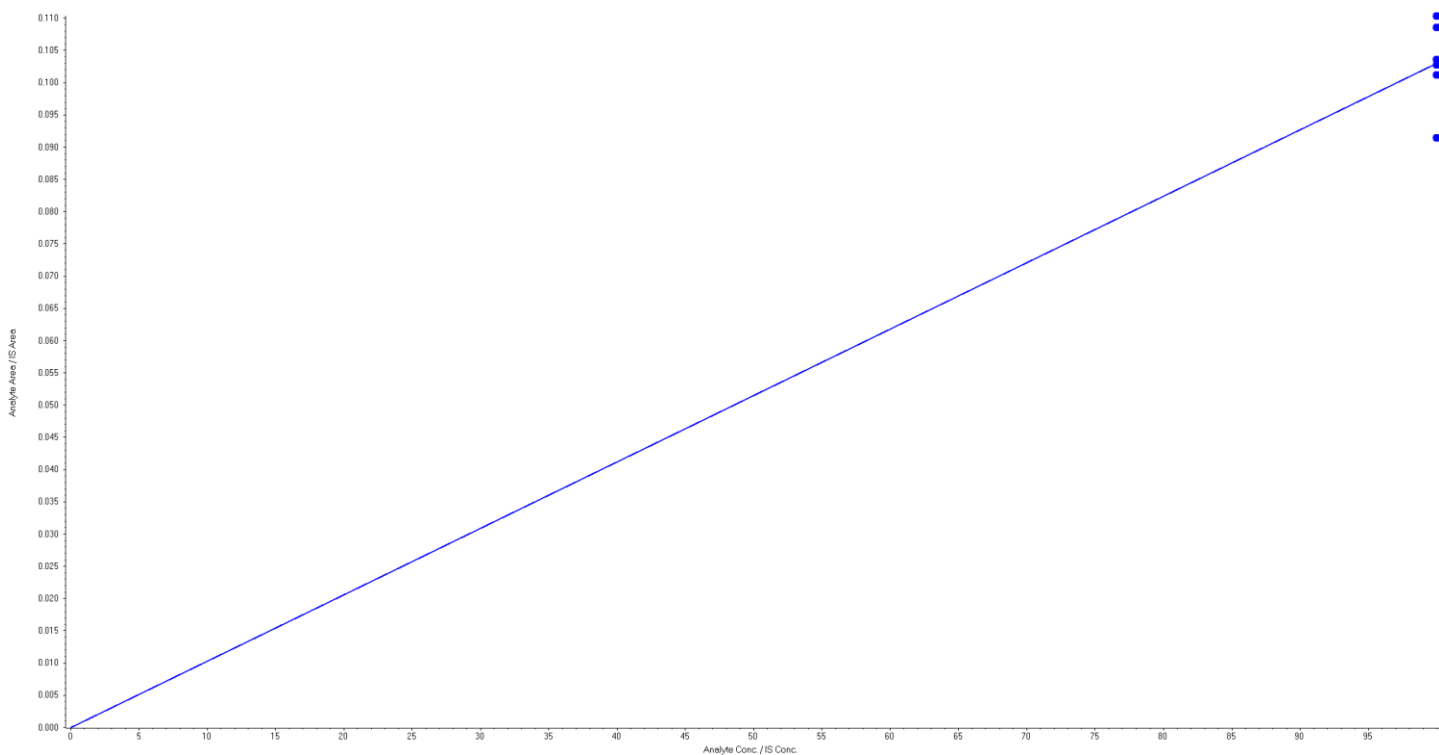


Analyte Name: 13C4-PFOS
Internal Standard: 13C6-PFHxA IS

Data File	PFC_160223\WS#4390179.wiff	Result Table	PFC_Water_160223_4390179_ULow.rdb
Acquisition Date	2016/02/23 1:55:57 PM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.00103 x (r = 0.9983)$

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
100	6	100.00	100.0

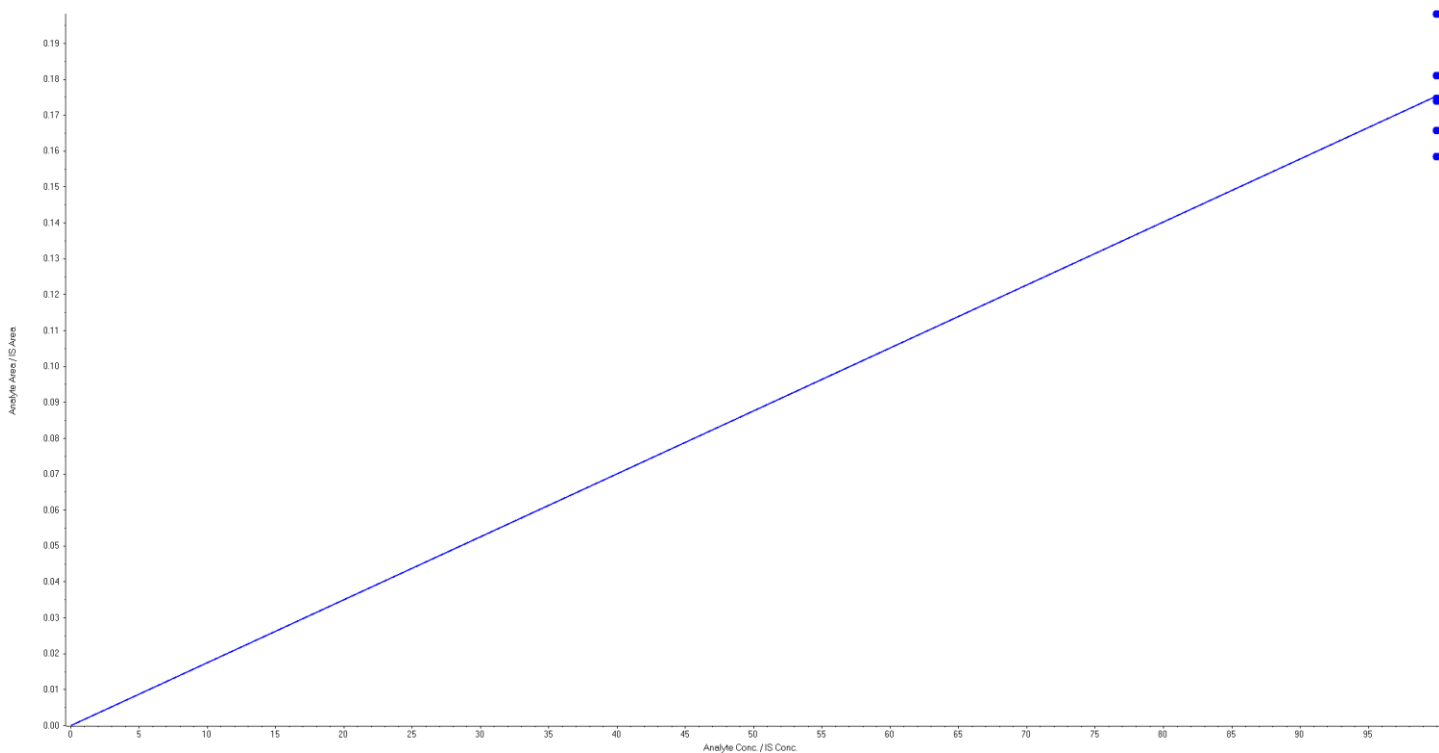


Analyte Name: 13C5-PFNA
Internal Standard: 13C6-PFHxA IS

Data File	PFC_160223\WS#4390179.wiff	Result Table	PFC_Water_160223_4390179_ULow.rdb
Acquisition Date	2016/02/23 1:55:57 PM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.00175 x$ (r = 0.9975)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
100	6	100.00	100.0

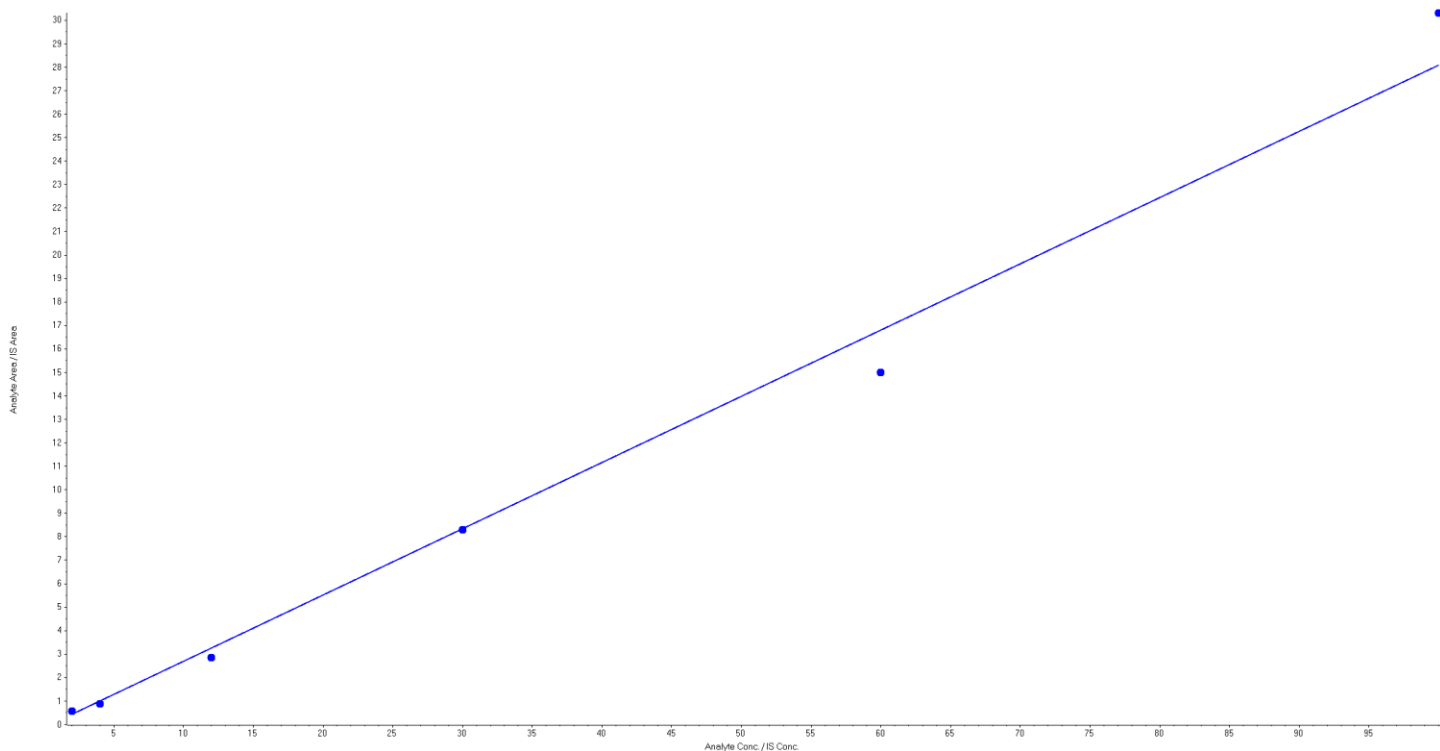


Analyte Name: PFBS 1
Internal Standard: MPFHxS

Data File	PFC_160226\WS#4394551.wiff	Result Table	PFC_Water_160226_4394551_ULow.rdb
Acquisition Date	2016/02/29 9:00:47 AM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.282 x + -0.125$ (r = 0.9952)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	2.50	125.0
4	1	3.62	90.5
12	1	10.52	87.7
30	1	29.87	99.6
60	1	53.62	89.4
100	1	107.86	107.9

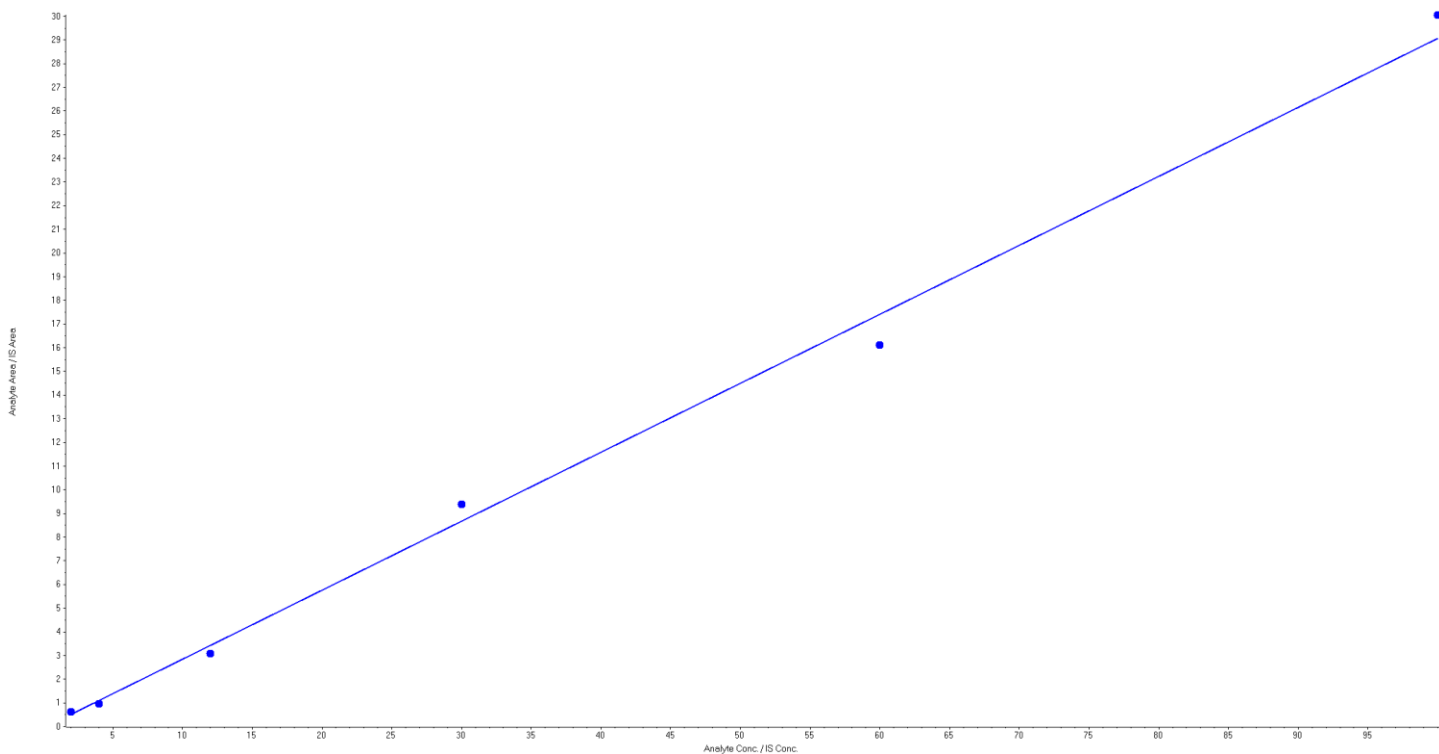


Analyte Name: PFHxS 1
Internal Standard: MPFHxS

Data File	PFC_160226\WS#4394551.wiff	Result Table	PFC_Water_160226_4394551_ULow.rdb
Acquisition Date	2016/02/29 9:00:47 AM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.291 x + -0.0689$ (r = 0.9973)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	2.38	119.0
4	1	3.49	87.2
12	1	10.77	89.7
30	1	32.41	108.0
60	1	55.57	92.6
100	1	103.39	103.4

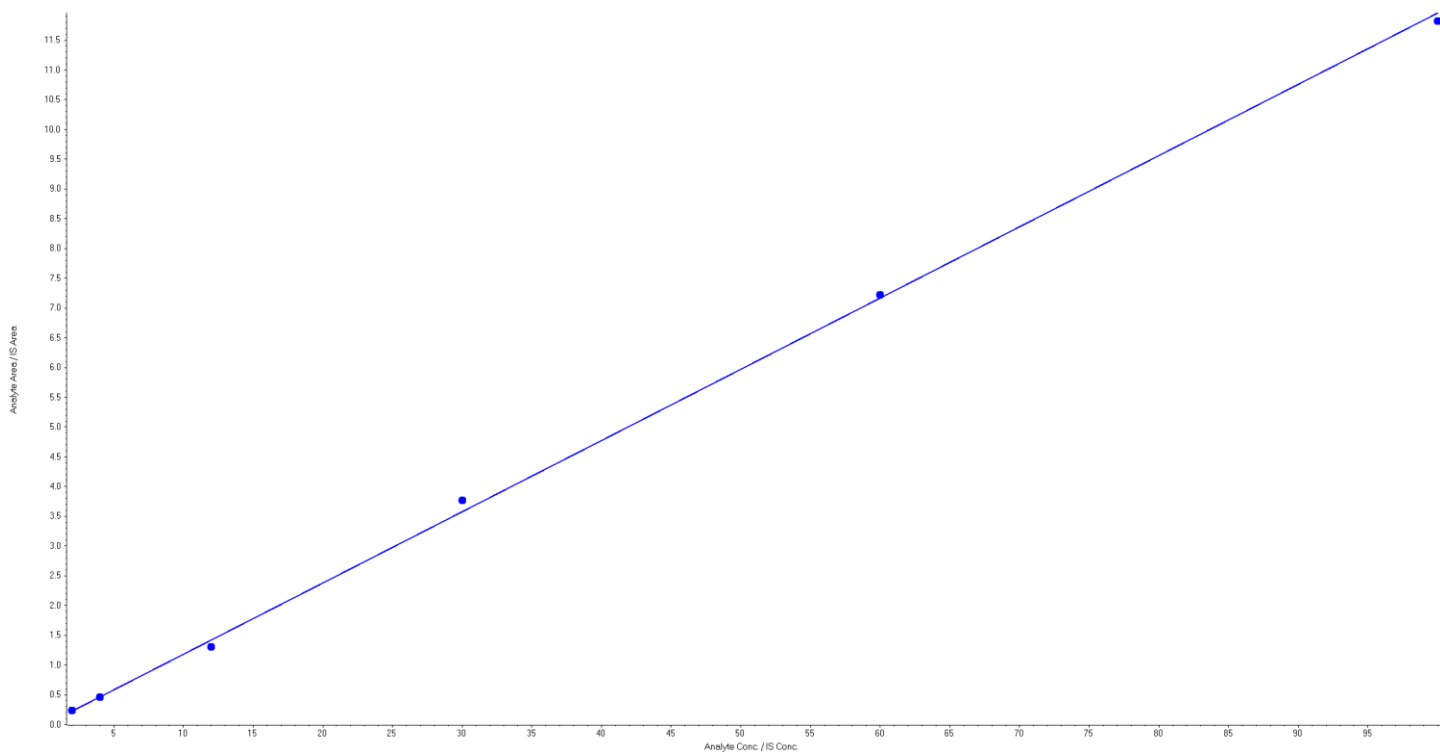


Analyte Name: PFHpA 1
Internal Standard: MPFHpA

Data File	PFC_160226\WS#4394551.wiff	Result Table	PFC_Water_160226_4394551_ULow.rdb
Acquisition Date	2016/02/29 9:00:47 AM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.12 x + -0.016$ (r = 0.9995)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	2.09	104.5
4	1	3.95	98.6
12	1	11.04	92.0
30	1	31.57	105.2
60	1	60.46	100.8
100	1	98.90	98.9

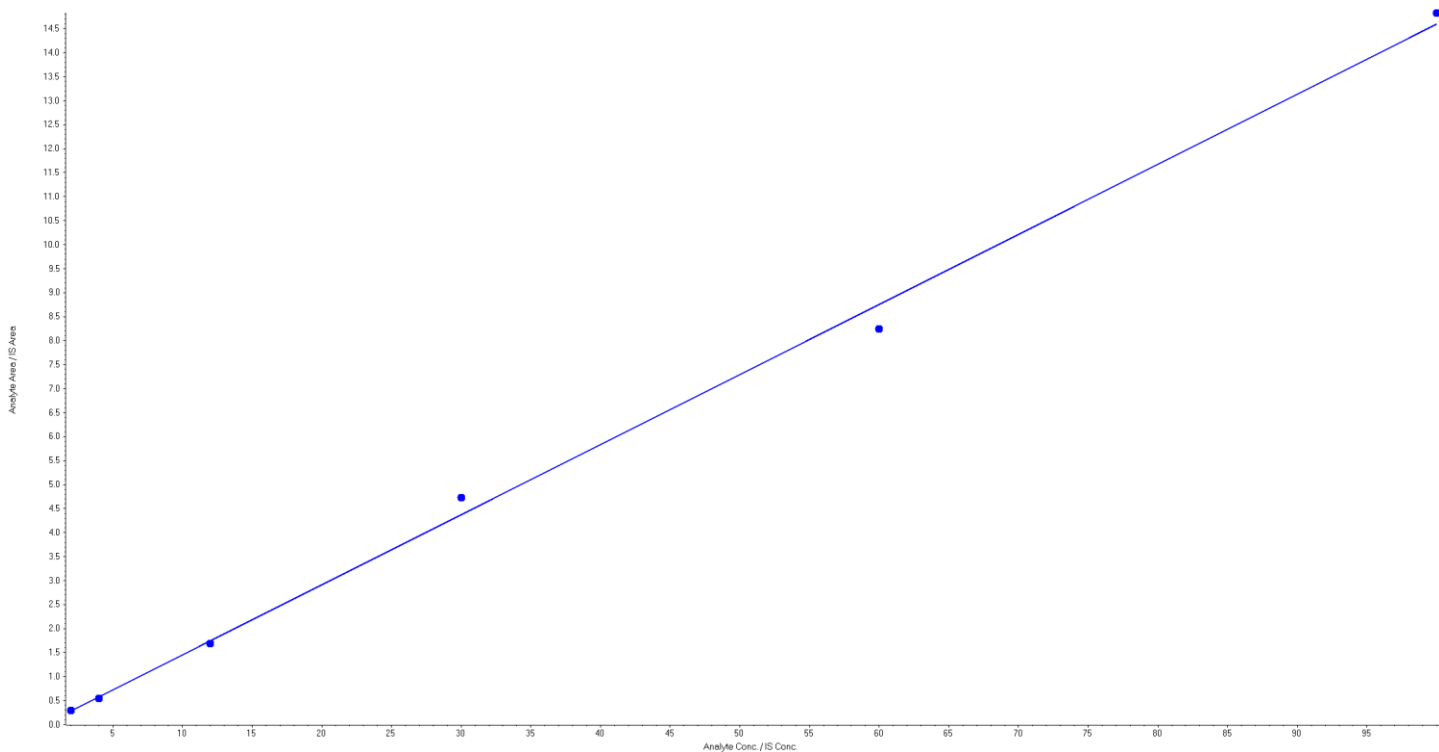


Analyte Name: PFOA 1
Internal Standard: MPFOA

Data File	PFC_160226\WS#4394551.wiff	Result Table	PFC_Water_160226_4394551_ULow.rdb
Acquisition Date	2016/02/29 9:00:47 AM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.146 x + -0.00895$ (r = 0.9986)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	2.11	105.6
4	1	3.74	93.6
12	1	11.63	96.9
30	1	32.45	108.2
60	1	56.48	94.1
100	1	101.58	101.6

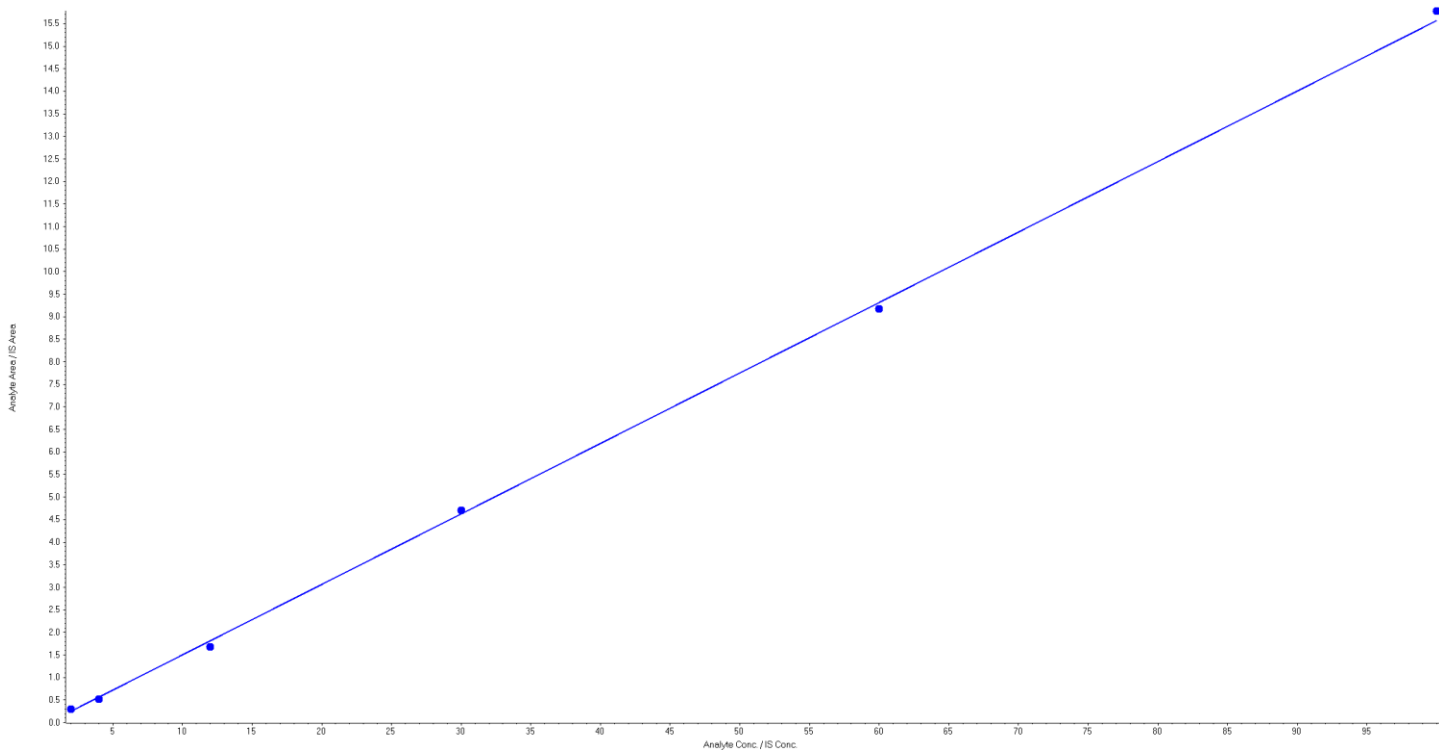


Analyte Name: PFOS 1
Internal Standard: MPFOS

Data File	PFC_160226\WS#4394551.wiff	Result Table	PFC_Water_160226_4394551_ULow.rdb
Acquisition Date	2016/02/29 9:00:47 AM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.156 x + -0.0619$ (r = 0.9995)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	2.26	112.8
4	1	3.72	93.1
12	1	11.13	92.8
30	1	30.47	101.6
60	1	59.07	98.4
100	1	101.35	101.4

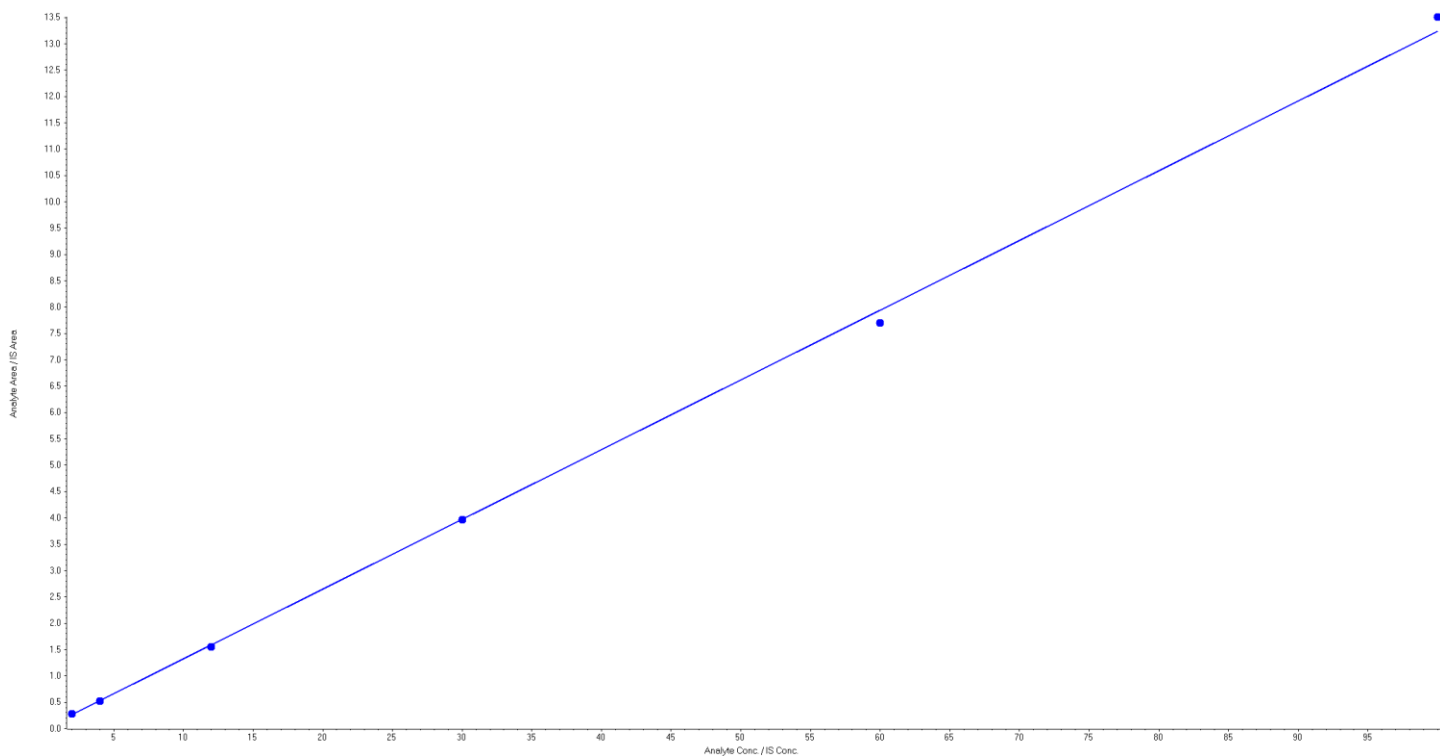


Analyte Name: PFNA 1
Internal Standard: MPFNA

Data File	PFC_160226\WS#4394551.wiff	Result Table	PFC_Water_160226_4394551_ULow.rdb
Acquisition Date	2016/02/29 9:00:47 AM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.132 x + -0.000241$ (r = 0.9997)

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
2	1	2.08	103.9
4	1	3.97	99.3
12	1	11.75	97.9
30	1	29.99	100.0
60	1	58.18	97.0
100	1	102.04	102.0

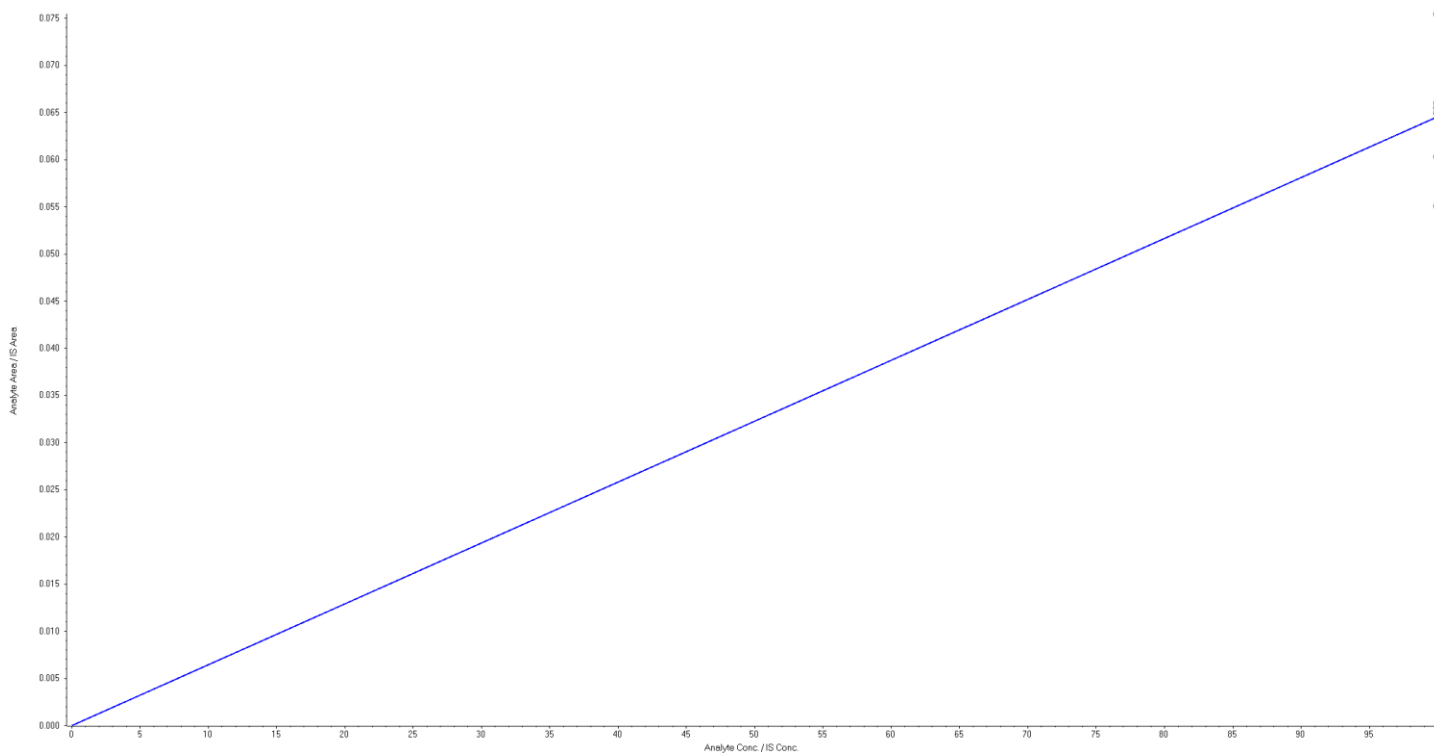


Analyte Name: 18O2-PFHxS
Internal Standard: 13C6-PFHxA IS

Data File	PFC_160226\WS#4394551.wiff	Result Table	PFC_Water_160226_4394551_ULow.rdb
Acquisition Date	2016/02/29 9:00:47 AM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.000646 x (r = 0.9954)$

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
100	6	100.00	100.0

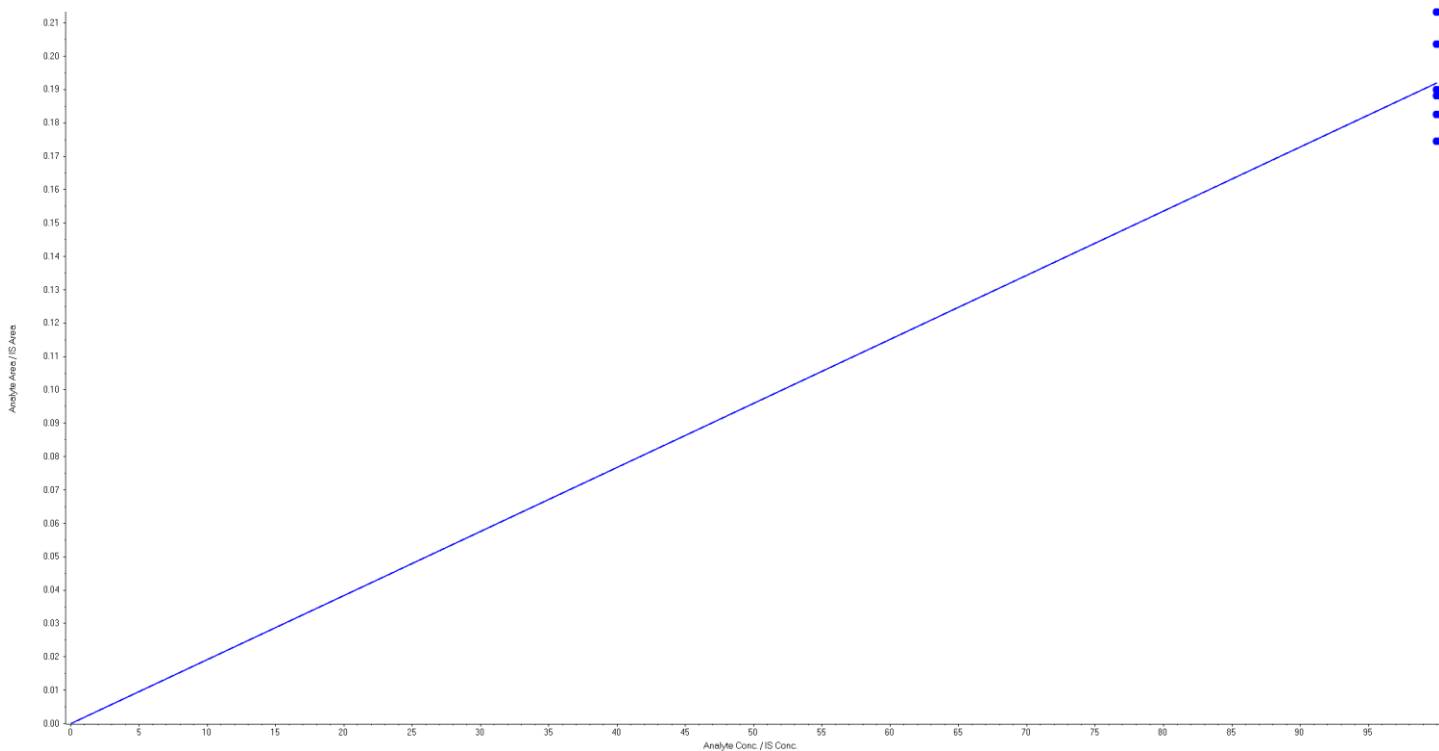


Analyte Name: 13C4-PFHpA
Internal Standard: 13C6-PFHxA IS

Data File	PFC_160226\WS#4394551.wiff	Result Table	PFC_Water_160226_4394551_ULow.rdb
Acquisition Date	2016/02/29 9:00:47 AM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.00192 x (r = 0.9977)$

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
100	6	100.00	100.0

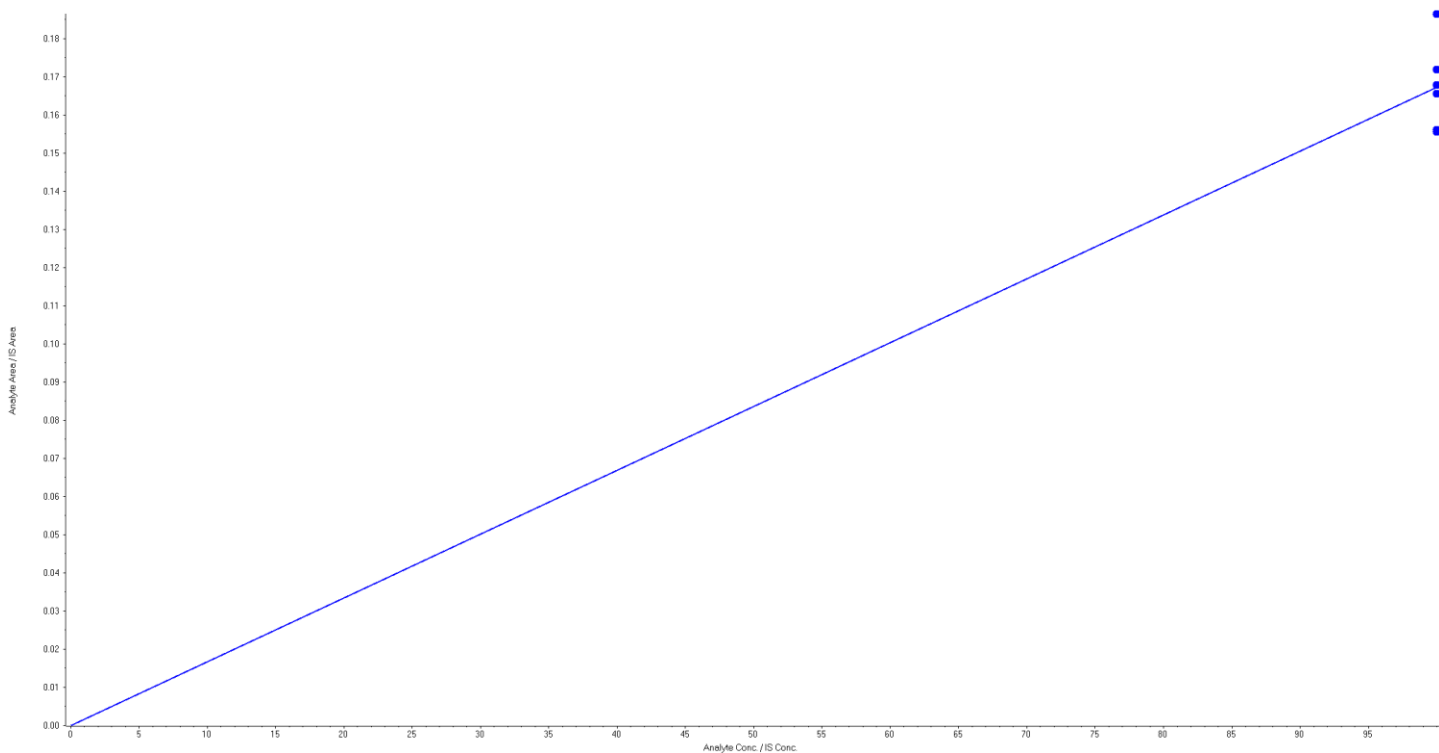


Analyte Name: 13C4-PFOA
Internal Standard: 13C6-PFHxA IS

Data File	PFC_160226\WS#4394551.wiff	Result Table	PFC_Water_160226_4394551_ULow.rdb
Acquisition Date	2016/02/29 9:00:47 AM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.00167 x (r = 0.9981)$

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
100	6	100.00	100.0

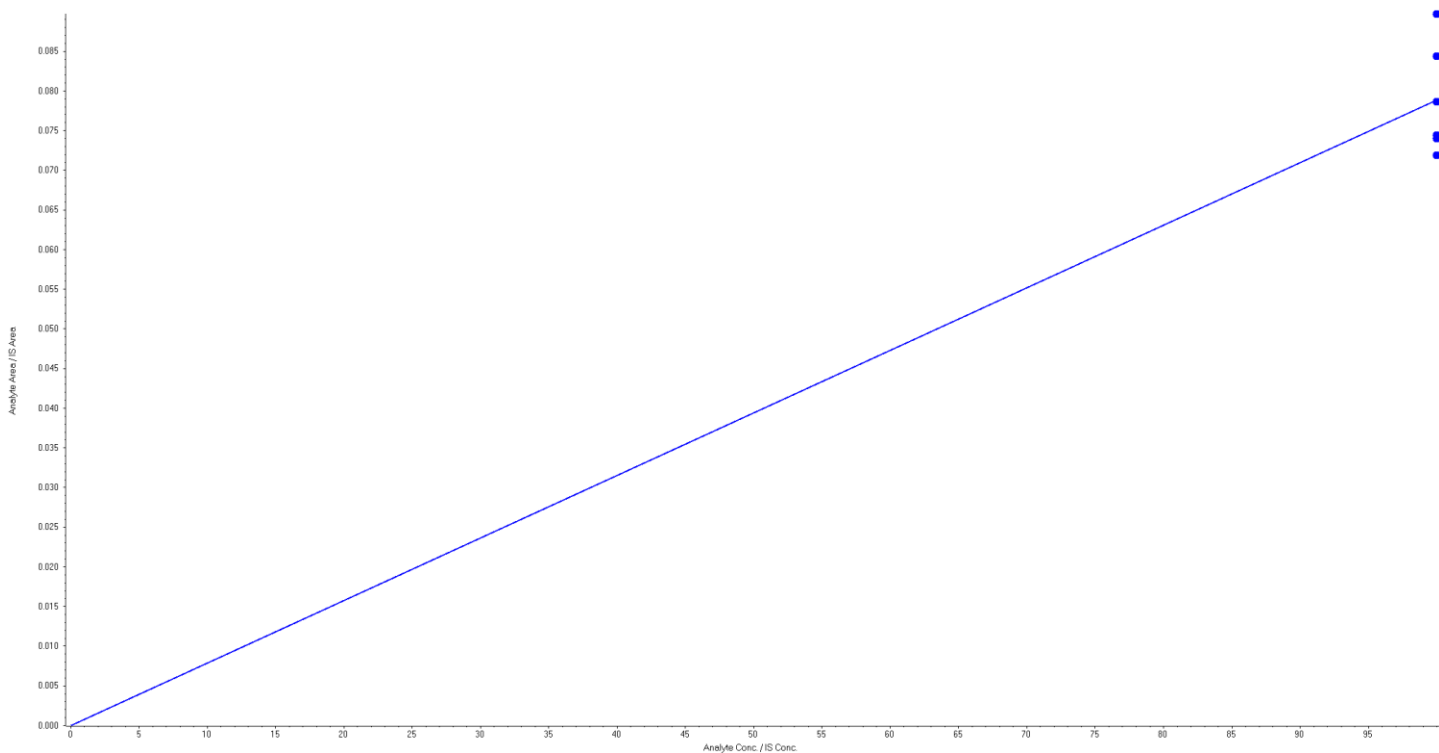


Analyte Name: 13C4-PFOS
Internal Standard: 13C6-PFHxA IS

Data File	PFC_160226\WS#4394551.wiff	Result Table	PFC_Water_160226_4394551_ULow.rdb
Acquisition Date	2016/02/29 9:00:47 AM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.000788 x (r = 0.9968)$

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
100	6	100.00	100.0

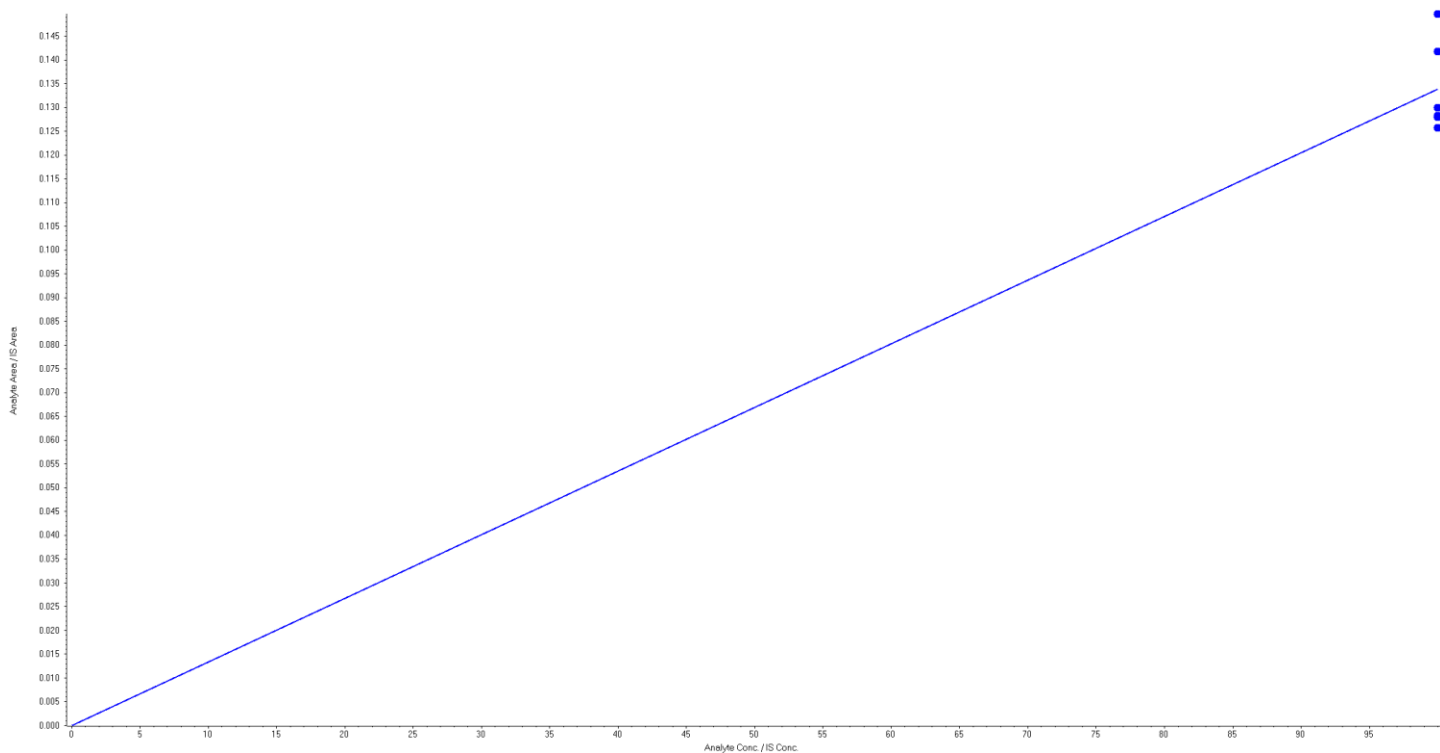


Analyte Name: 13C5-PFNA
Internal Standard: 13C6-PFHxA IS

Data File	PFC_160226\WS#4394551.wiff	Result Table	PFC_Water_160226_4394551_ULow.rdb
Acquisition Date	2016/02/29 9:00:47 AM	Project	Enviro\PFOS
Acquisition Method	PFC_Water_Low.dam	Instrument Name	LCMS03

Regression Equation: $y = 0.00134 x (r = 0.9979)$

Expected Concentration (ng/L)	Number of Values	Calculated Concentration (ng/L)	% Accuracy
100	6	100.00	100.0





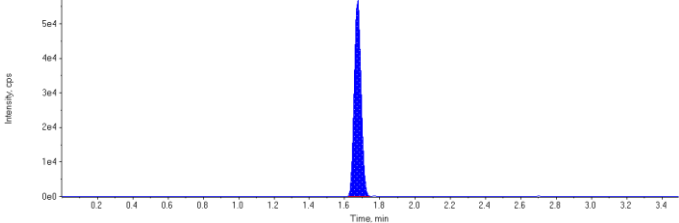
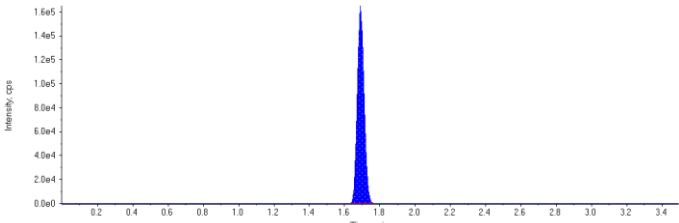
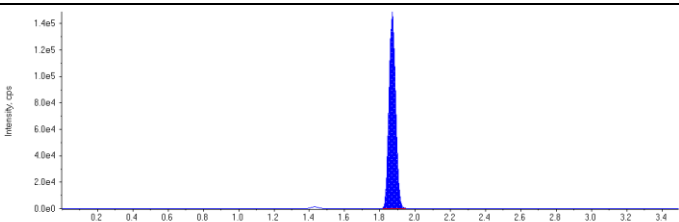
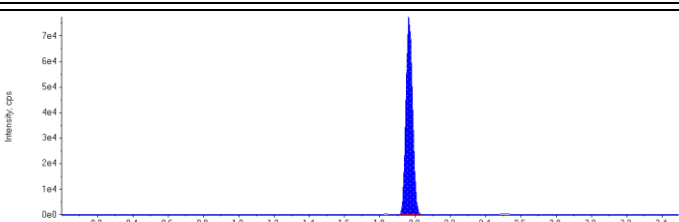
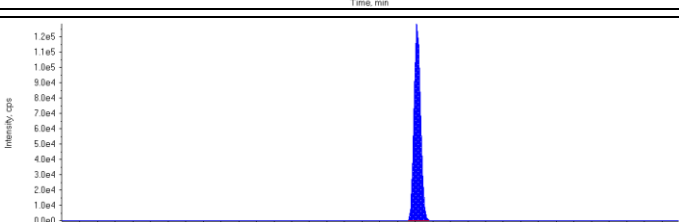
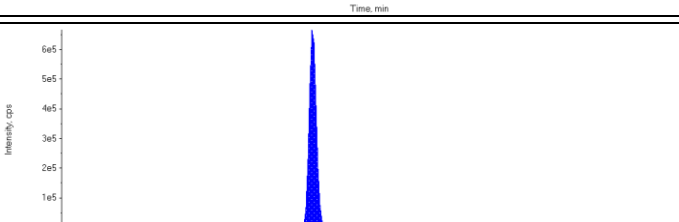
6. Continuing Calibration

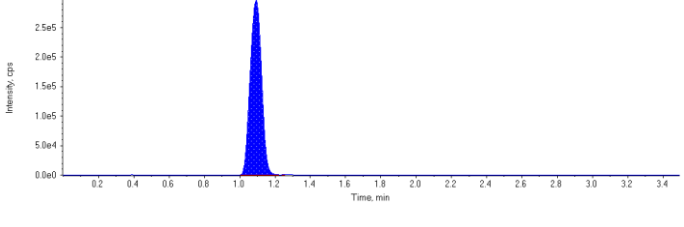
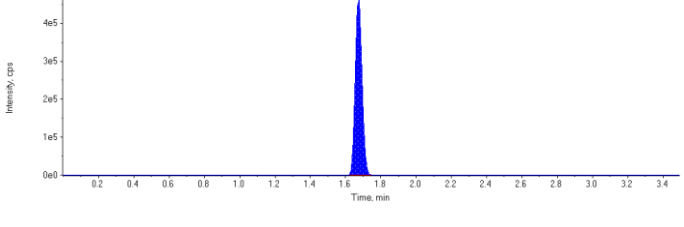
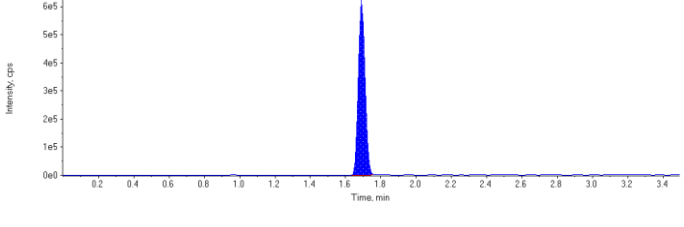
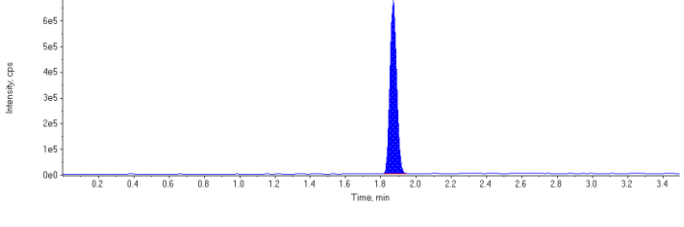
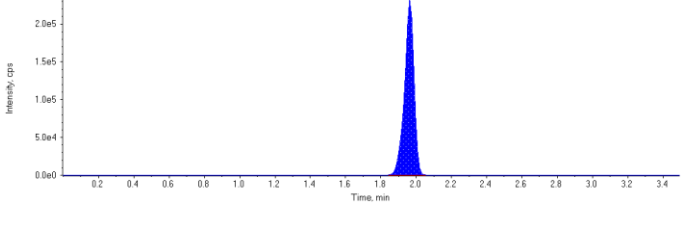
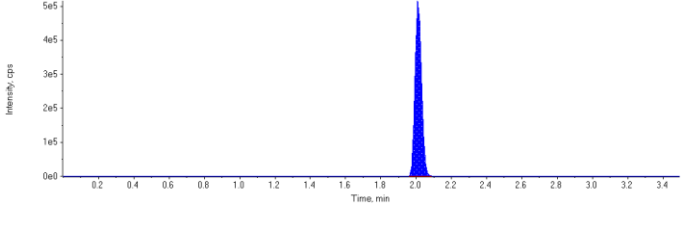
Maxxam Analytics International
6740 Campobello Rd
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

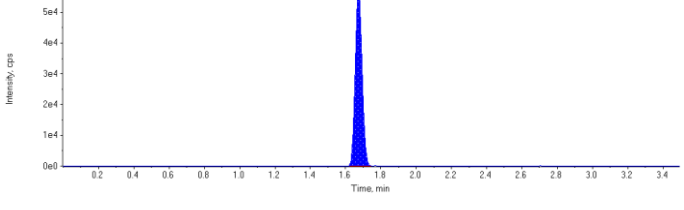
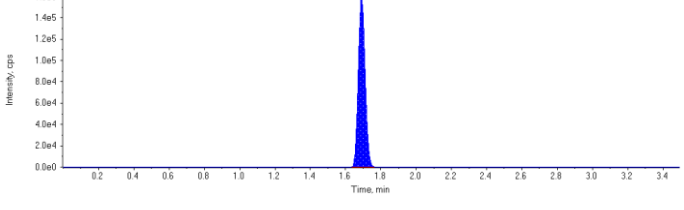
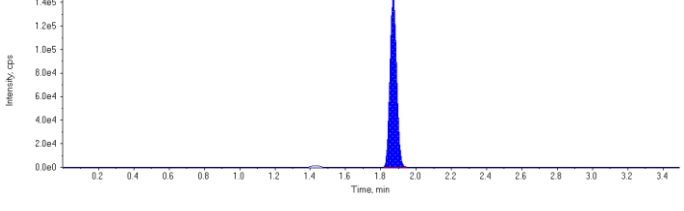
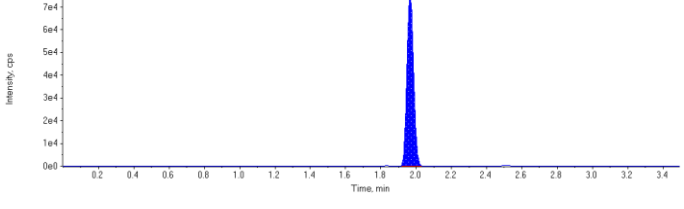
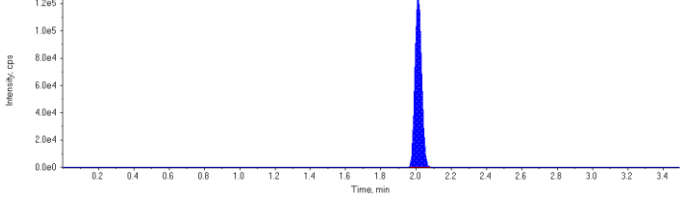
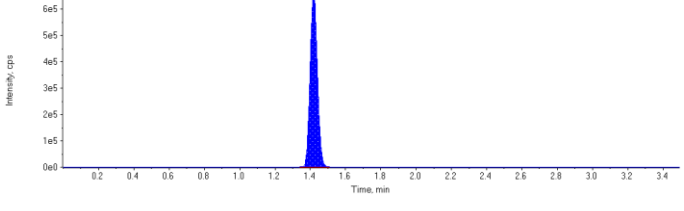
Sample Name	CCV	Injection Vial	6
Sample ID	CCV	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 2:36:50 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	155000.	1.67	1.00	-
MPFHpA	431000.	1.69	1.00	-
MPFOA	384000.	1.87	1.00	-
MPFOS	200000.	1.97	1.00	-
MPFNA	332000.	2.01	1.00	-
13C6-PFHxA IS	1910000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	1330000	1.09	30.0	28.7	95.8
PFHxS 1	1250000	1.67	30.0	27.5	91.7
PFHpA 1	1630000	1.69	30.0	30.5	102.0
PFOA 1	1750000	1.87	30.0	31.5	105.0
PFOS 1	871000	1.96	30.0	26.1	87.1
PFNA 1	1330000	2.01	30.0	29.9	99.6
18O2-PFHxS	155000	1.67	100.	101.	101.0
13C4-PFHpA	431000	1.69	100.	98.0	98.0
13C4-PFOA	384000	1.87	100.	96.9	96.9
13C4-PFOS	200000	1.97	100.	102.	102.0
13C5-PFNA	332000	2.01	100.	99.3	99.3
13C6-PFHxA	1910000	1.42	100.	96.9	96.9

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.97(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

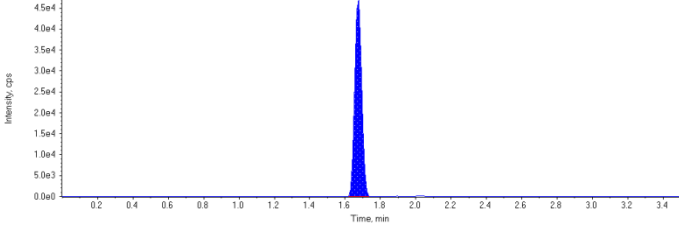
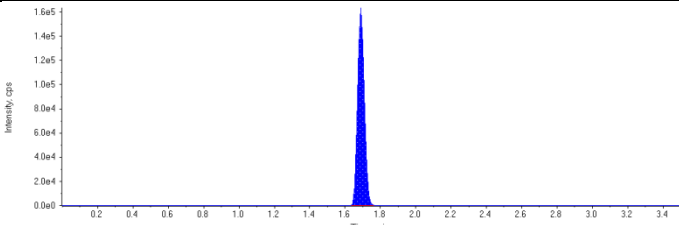
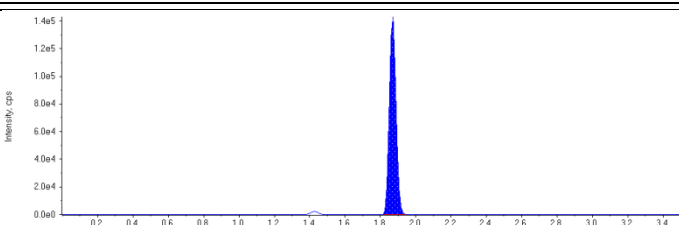
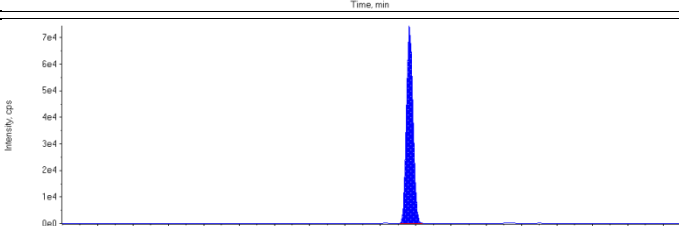
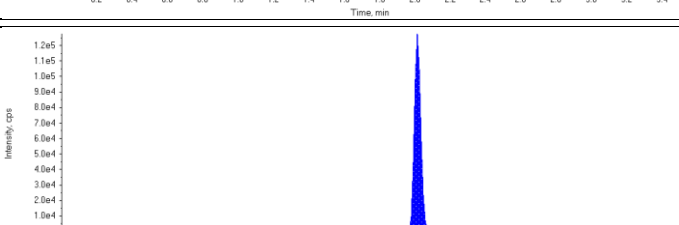
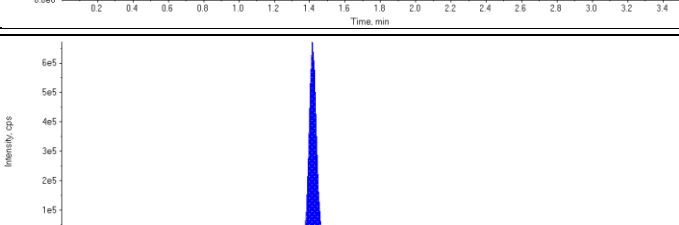
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 28.7 ng/L</p> <p>Area Ratio: 8.60</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 27.5 ng/L</p> <p>Area Ratio: 8.10</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 30.5 ng/L</p> <p>Area Ratio: 3.77</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 31.5 ng/L</p> <p>Area Ratio: 4.57</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 26.1 ng/L</p> <p>Area Ratio: 4.36</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 29.9 ng/L</p> <p>Area Ratio: 4.00</p> <p>Sample Type: (Quality Control)</p>	

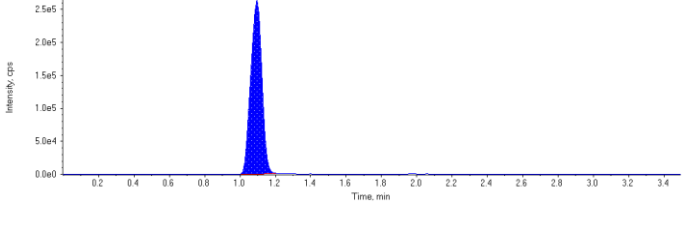
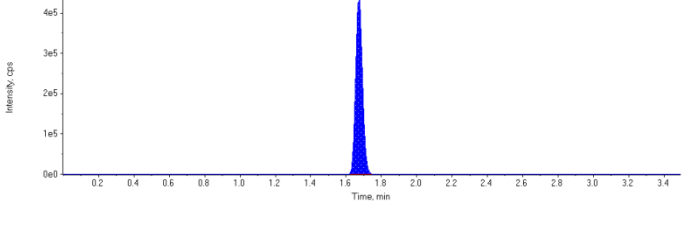
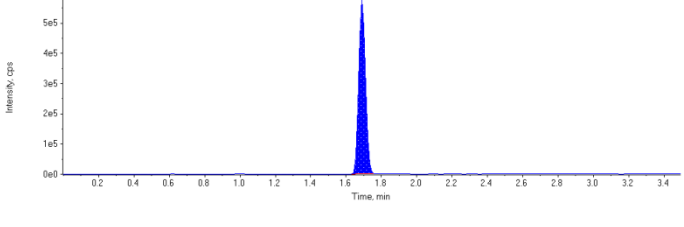
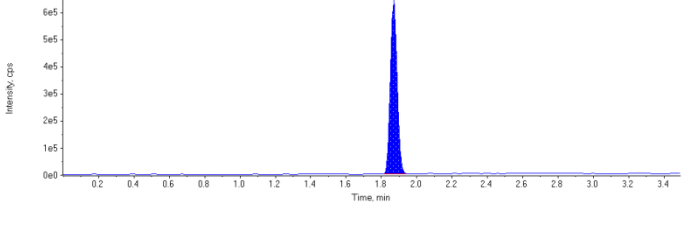
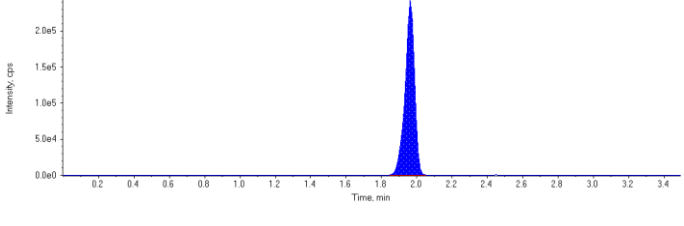
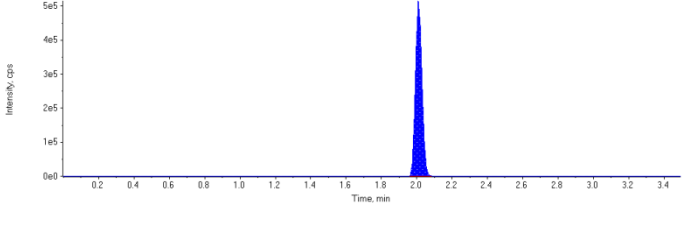
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.0810</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 98.0 ng/L</p> <p>Area Ratio: 0.226</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 96.9 ng/L</p> <p>Area Ratio: 0.201</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 102. ng/L</p> <p>Area Ratio: 0.105</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 99.3 ng/L</p> <p>Area Ratio: 0.174</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 96.9 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

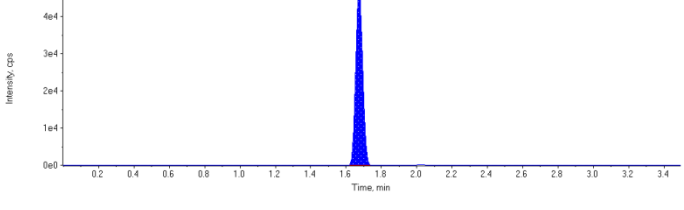
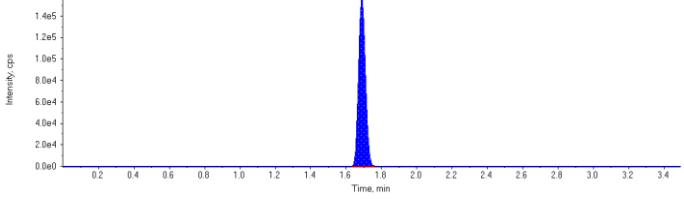
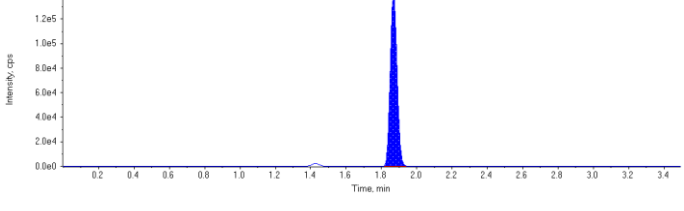
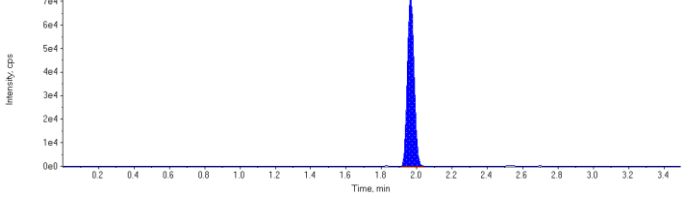
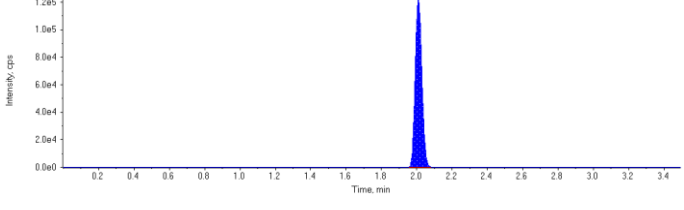
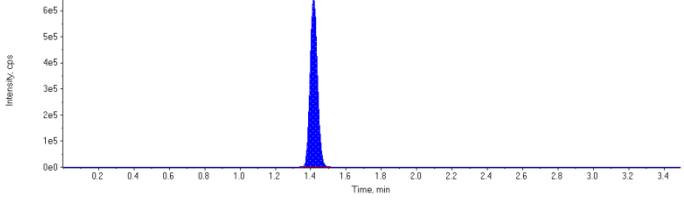
Sample Name	CCV	Injection Vial	6
Sample ID	CCV	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 3:48:16 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	130000.	1.67	1.00	-
MPFHpA	430000.	1.69	1.00	-
MPFOA	375000.	1.87	1.00	-
MPFOS	192000.	1.97	1.00	-
MPFNA	324000.	2.01	1.00	-
13C6-PFHxA IS	1890000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	1160000	1.09	30.0	29.9	99.6
PFHxS 1	1180000	1.67	30.0	30.9	103.0
PFHpA 1	1530000	1.69	30.0	28.8	95.9
PFOA 1	1690000	1.87	30.0	31.0	103.0
PFOS 1	901000	1.96	30.0	28.0	93.5
PFNA 1	1320000	2.01	30.0	30.5	102.0
18O2-PFHxS	130000	1.67	100.	85.5	85.5
13C4-PFHpA	430000	1.69	100.	98.5	98.5
13C4-PFOA	375000	1.87	100.	95.6	95.6
13C4-PFOS	192000	1.97	100.	98.8	98.8
13C5-PFNA	324000	2.01	100.	97.7	97.7
13C6-PFHxA	1890000	1.42	100.	96.0	96.0

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.97(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

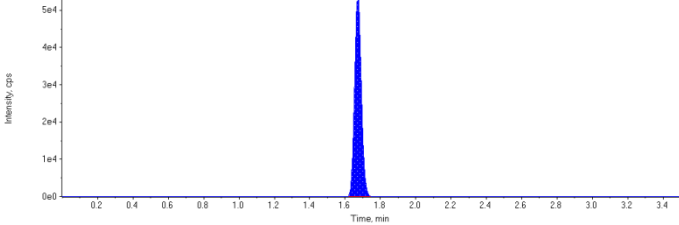
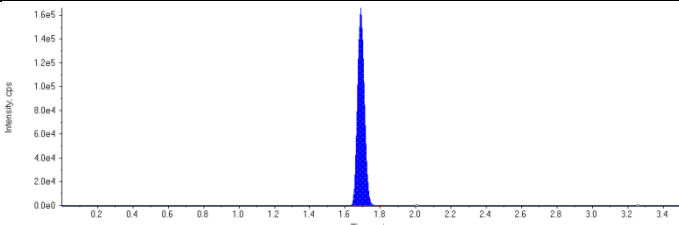
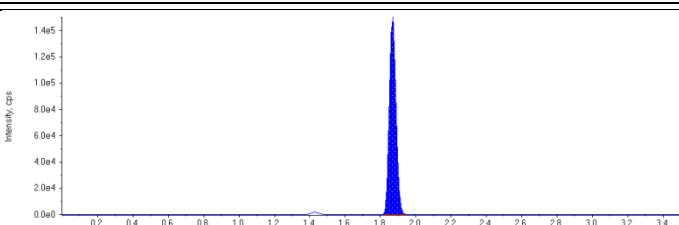
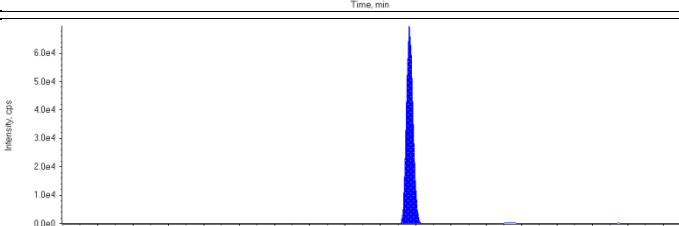
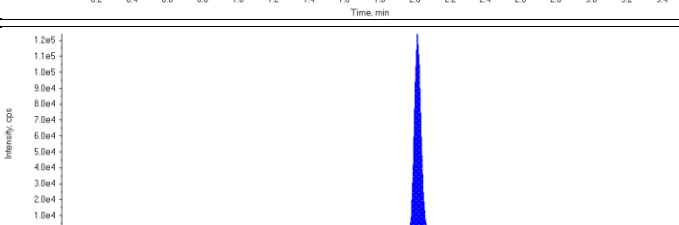
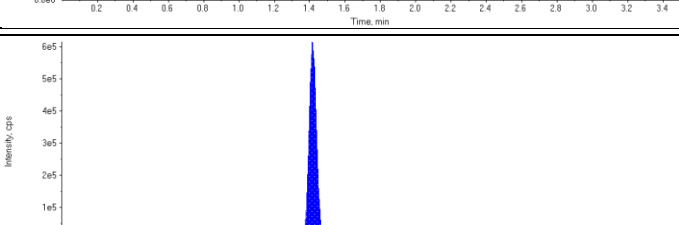
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 29.9 ng/L</p> <p>Area Ratio: 8.95</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 30.9 ng/L</p> <p>Area Ratio: 9.11</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 28.8 ng/L</p> <p>Area Ratio: 3.56</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 31.0 ng/L</p> <p>Area Ratio: 4.50</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 28.0 ng/L</p> <p>Area Ratio: 4.68</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 30.5 ng/L</p> <p>Area Ratio: 4.07</p> <p>Sample Type: (Quality Control)</p>	

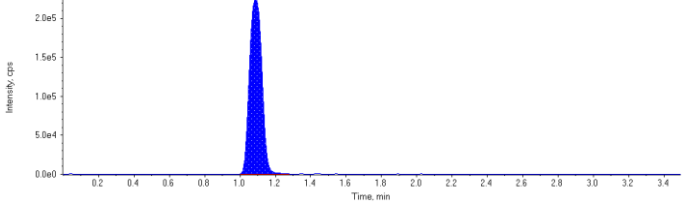
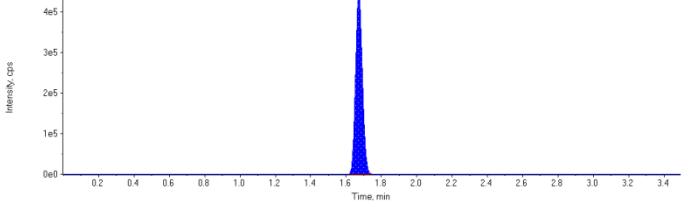
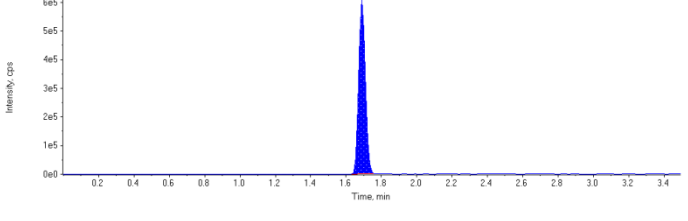
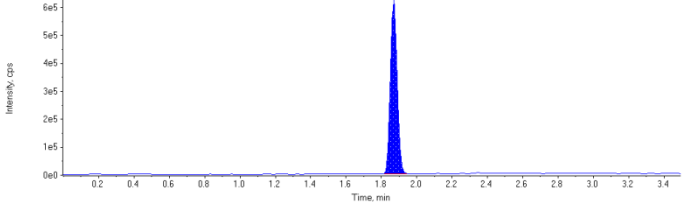
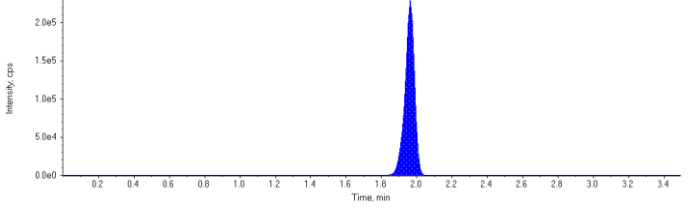
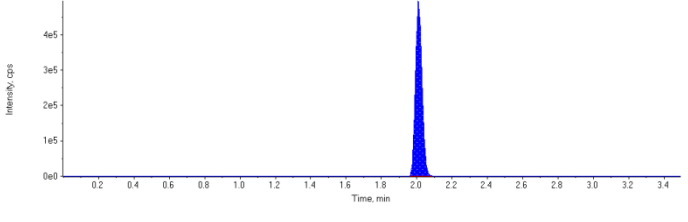
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 85.5 ng/L</p> <p>Area Ratio: 0.0685</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 98.5 ng/L</p> <p>Area Ratio: 0.227</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 95.6 ng/L</p> <p>Area Ratio: 0.198</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.97 (1.97) min</p> <p>Calculated Conc: 98.8 ng/L</p> <p>Area Ratio: 0.102</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 97.7 ng/L</p> <p>Area Ratio: 0.171</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 96.0 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

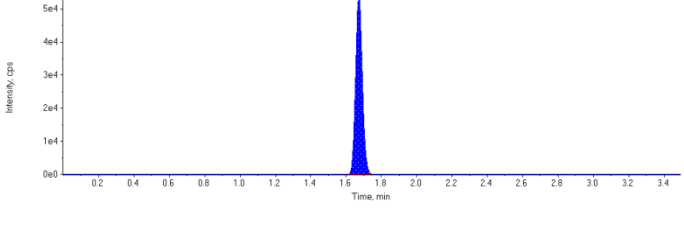
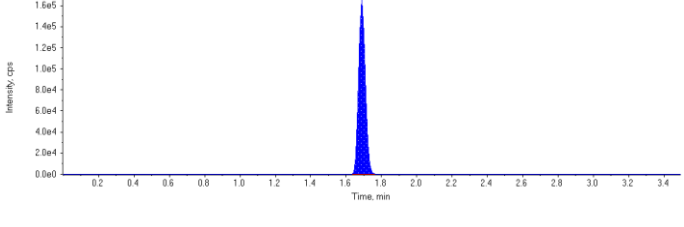
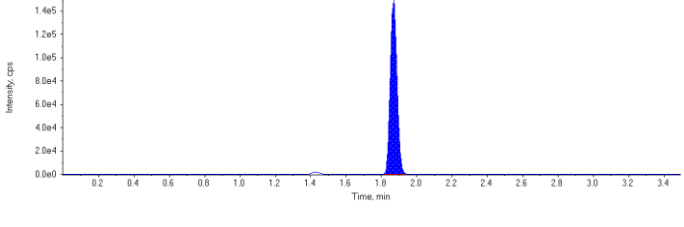
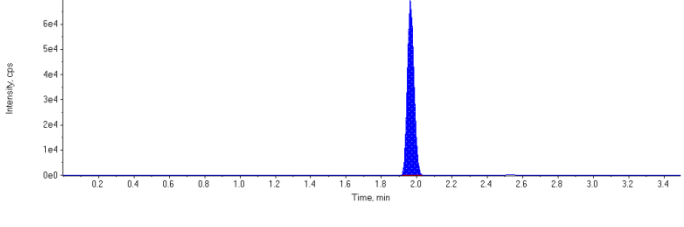
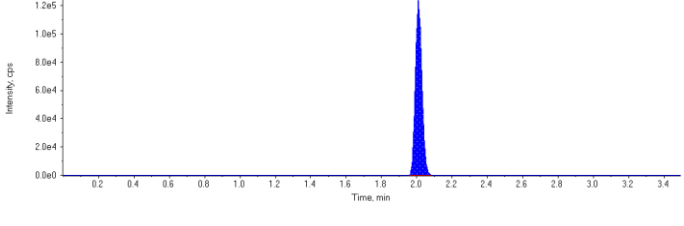
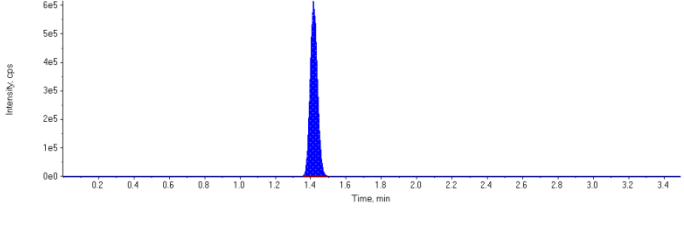
Sample Name	CCV	Injection Vial	6
Sample ID	CCV	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/23 4:44:19 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	Re-analyzed
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160223\WS#4390179.wiff		
Result Table	PFC_Water_160223_4390179_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	143000.	1.67	1.00	-
MPFHpA	433000.	1.69	1.00	-
MPFOA	395000.	1.87	1.00	-
MPFOS	180000.	1.96	1.00	-
MPFNA	319000.	2.01	1.00	-
13C6-PFHxA IS	1760000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	1100000	1.09	30.0	25.8	86.1
PFHxS 1	1190000	1.67	30.0	28.2	94.0
PFHpA 1	1600000	1.69	30.0	29.8	99.2
PFOA 1	1660000	1.87	30.0	28.9	96.4
PFOS 1	842000	1.96	30.0	28.0	93.2
PFNA 1	1280000	2.01	30.0	30.0	99.8
18O2-PFHxS	143000	1.67	100.	101.	101.0
13C4-PFHpA	433000	1.69	100.	106.	106.0
13C4-PFOA	395000	1.87	100.	108.	108.0
13C4-PFOS	180000	1.96	100.	99.3	99.3
13C5-PFNA	319000	2.01	100.	103.	103.0
13C6-PFHxA	1760000	1.42	100.	89.5	89.5

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.67(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.69) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

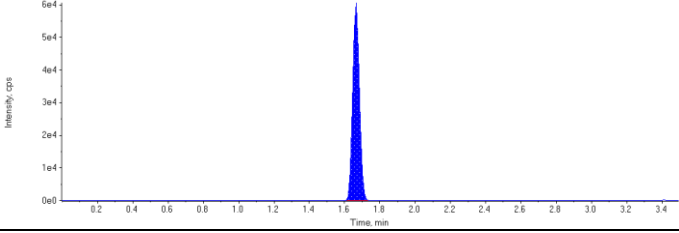
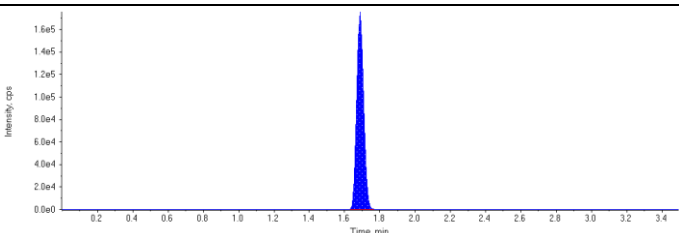
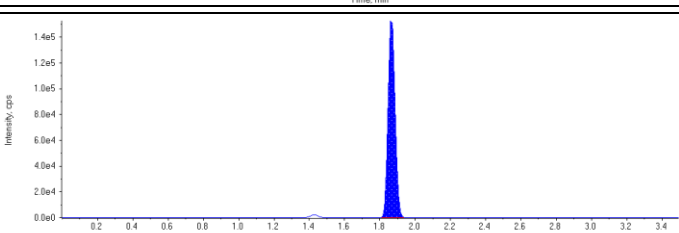
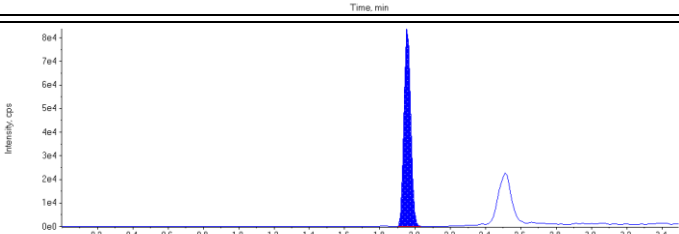
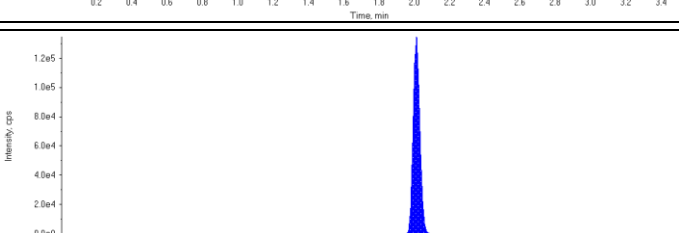
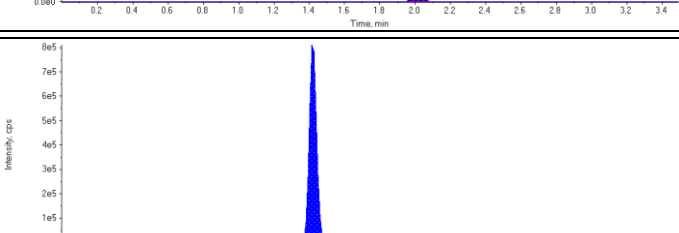
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.09) min</p> <p>Calculated Conc: 25.8 ng/L</p> <p>Area Ratio: 7.71</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 28.2 ng/L</p> <p>Area Ratio: 8.30</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 29.8 ng/L</p> <p>Area Ratio: 3.69</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 28.9 ng/L</p> <p>Area Ratio: 4.20</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 28.0 ng/L</p> <p>Area Ratio: 4.67</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 30.0 ng/L</p> <p>Area Ratio: 4.00</p> <p>Sample Type: (Quality Control)</p>	

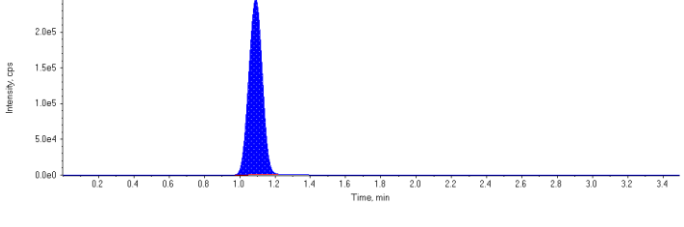
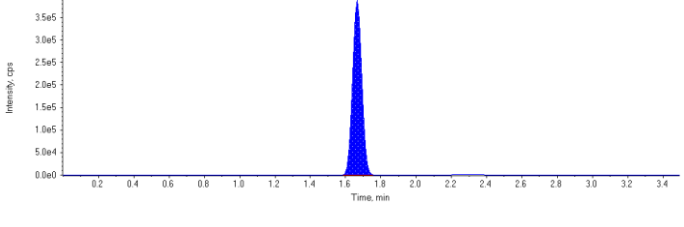
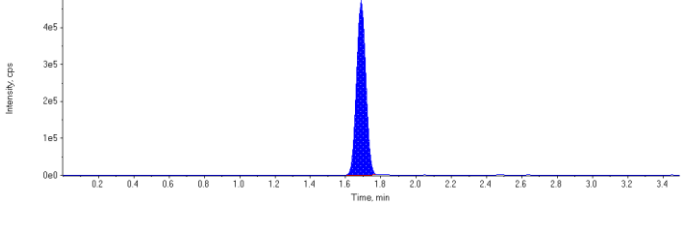
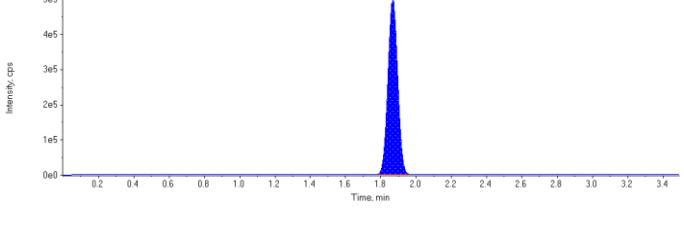
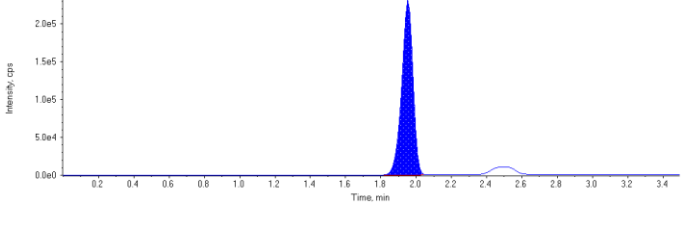
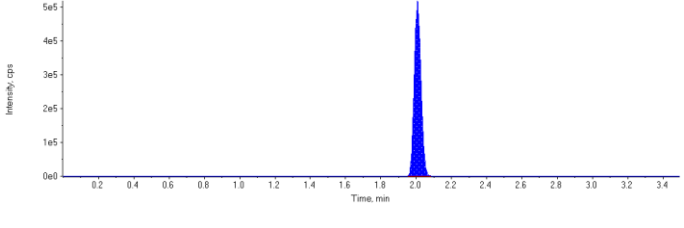
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 101. ng/L</p> <p>Area Ratio: 0.0812</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.69) min</p> <p>Calculated Conc: 106. ng/L</p> <p>Area Ratio: 0.246</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 108. ng/L</p> <p>Area Ratio: 0.224</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 99.3 ng/L</p> <p>Area Ratio: 0.102</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.181</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 89.5 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

Sample Name	CCV	Injection Vial	6
Sample ID	CCV	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 11:36:34 AM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394558.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	159000.	1.66	1.00	-
MPFHpA	477000.	1.69	1.00	-
MPFOA	425000.	1.87	1.00	-
MPFOS	223000.	1.96	1.00	-
MPFNA	354000.	2.01	1.00	-
13C6-PFHxA IS	2390000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	1310000	1.09	30.0	29.7	99.0
PFHxS 1	1410000	1.67	30.0	30.7	102.0
PFHpA 1	1720000	1.69	30.0	30.2	101.0
PFOA 1	1910000	1.87	30.0	30.8	103.0
PFOS 1	1020000	1.95	30.0	29.6	98.8
PFNA 1	1370000	2.01	30.0	29.3	97.6
18O2-PFHxS	159000	1.66	100.	103.	103.0
13C4-PFHpA	477000	1.69	100.	104.	104.0
13C4-PFOA	425000	1.87	100.	106.	106.0
13C4-PFOS	223000	1.96	100.	119.	119.0
13C5-PFNA	354000	2.01	100.	111.	111.0
13C6-PFHxA	2390000	1.42	100.	96.3	96.3

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.87(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.96(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

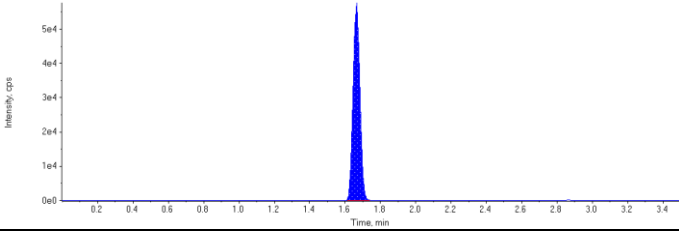
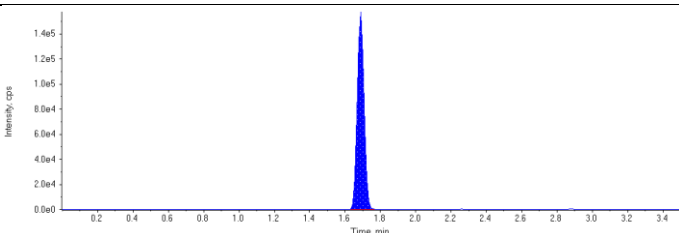
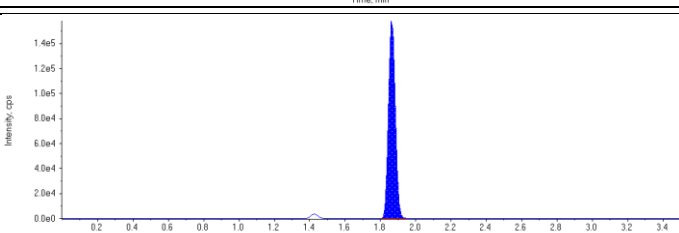
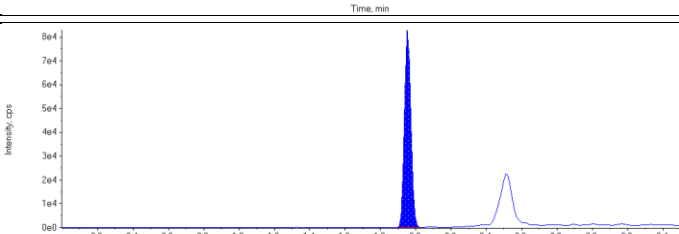
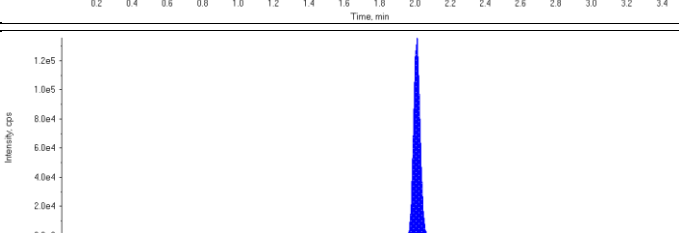
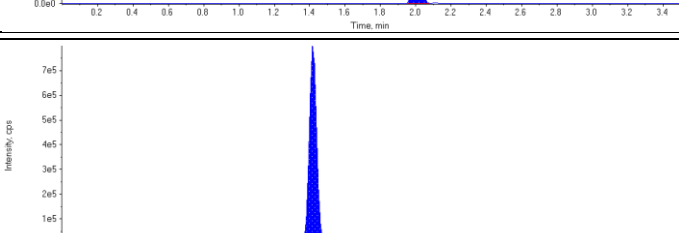
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 29.7 ng/L</p> <p>Area Ratio: 8.26</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.67 (1.68) min</p> <p>Calculated Conc: 30.7 ng/L</p> <p>Area Ratio: 8.87</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 30.2 ng/L</p> <p>Area Ratio: 3.60</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 30.8 ng/L</p> <p>Area Ratio: 4.49</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 29.6 ng/L</p> <p>Area Ratio: 4.57</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 29.3 ng/L</p> <p>Area Ratio: 3.87</p> <p>Sample Type: (Quality Control)</p>	

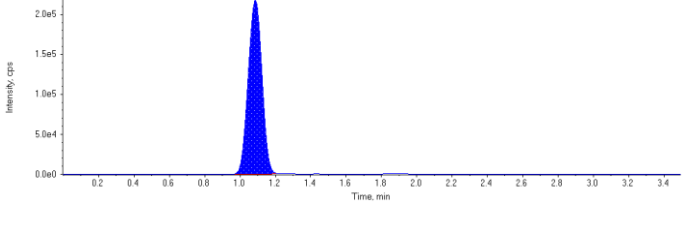
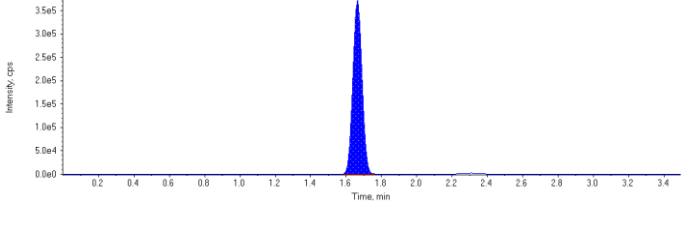
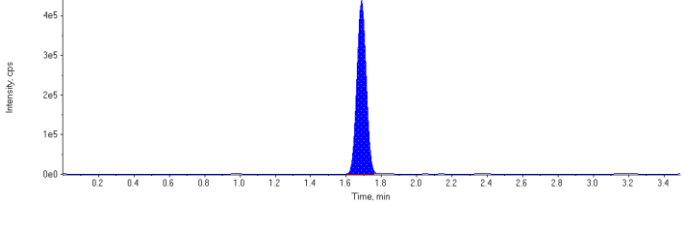
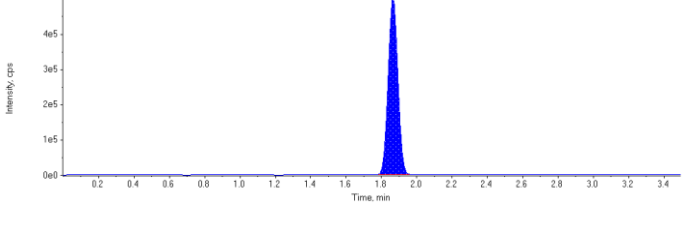
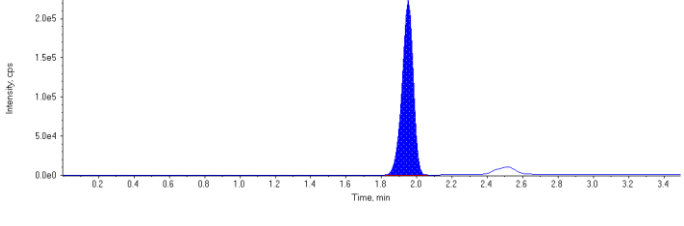
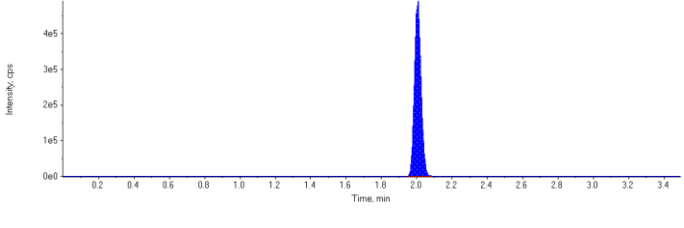
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.0666</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 104. ng/L</p> <p>Area Ratio: 0.200</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.88) min</p> <p>Calculated Conc: 106. ng/L</p> <p>Area Ratio: 0.178</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.96 (1.97) min</p> <p>Calculated Conc: 119. ng/L</p> <p>Area Ratio: 0.0935</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 111. ng/L</p> <p>Area Ratio: 0.148</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 96.3 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

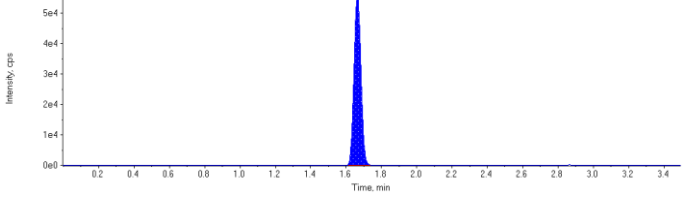
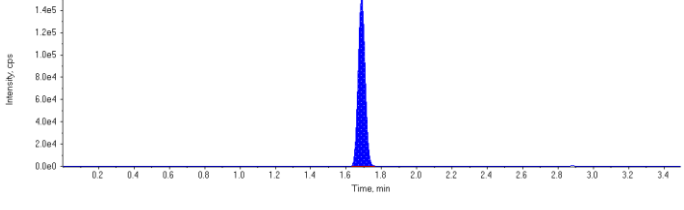
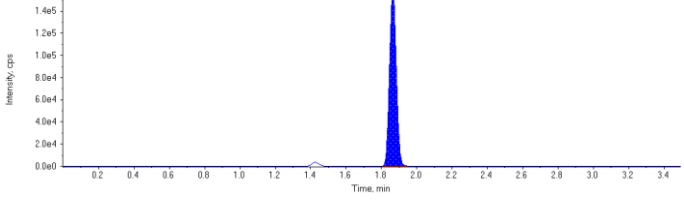
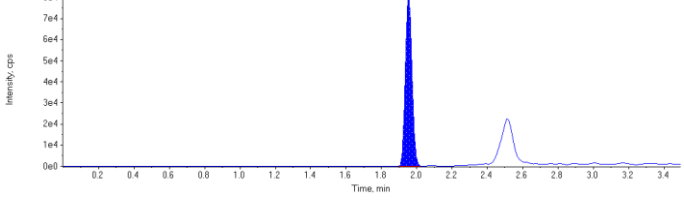
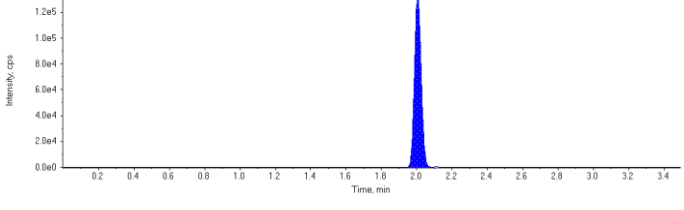
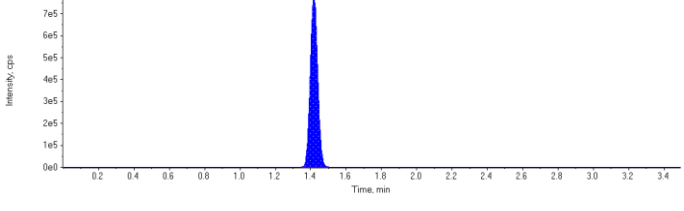
Sample Name	CCV	Injection Vial	6
Sample ID	CCV	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 12:53:05 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	154000.	1.66	1.00	-
MPFHpA	421000.	1.69	1.00	-
MPFOA	423000.	1.86	1.00	-
MPFOS	210000.	1.95	1.00	-
MPFNA	351000.	2.01	1.00	-
13C6-PFHxA IS	2310000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	1180000	1.09	30.0	27.5	91.7
PFHxS 1	1340000	1.66	30.0	30.0	100.0
PFHpA 1	1590000	1.69	30.0	31.8	106.0
PFOA 1	1910000	1.87	30.0	31.0	103.0
PFOS 1	978000	1.95	30.0	30.2	101.0
PFNA 1	1290000	2.01	30.0	27.7	92.2
18O2-PFHxS	154000	1.66	100.	104.	104.0
13C4-PFHpA	421000	1.69	100.	95.0	95.0
13C4-PFOA	423000	1.86	100.	110.	110.0
13C4-PFOS	210000	1.95	100.	115.	115.0
13C5-PFNA	351000	2.01	100.	114.	114.0
13C6-PFHxA	2310000	1.42	100.	93.1	93.1

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.01(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

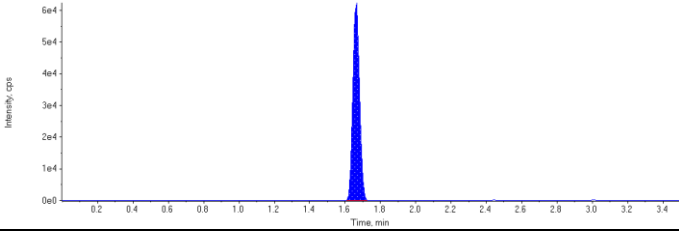
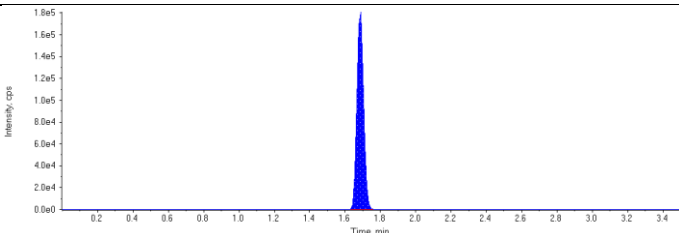
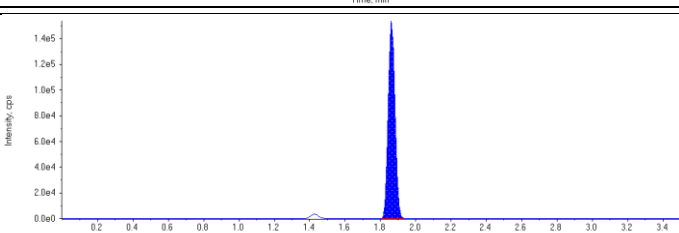
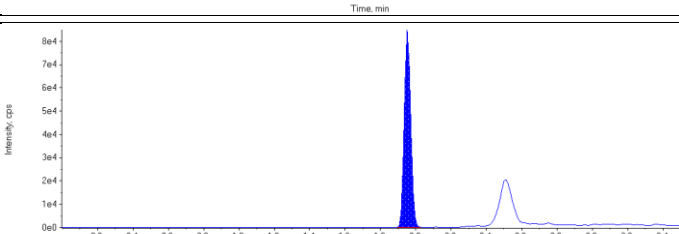
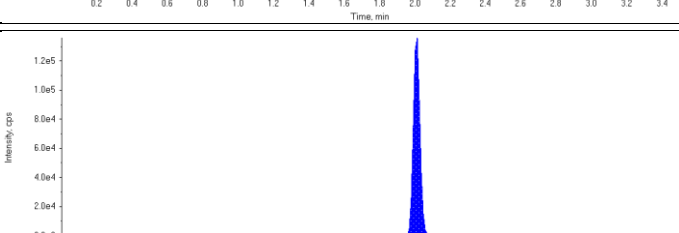
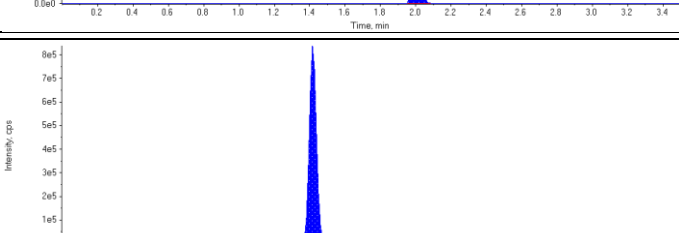
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 27.5 ng/L</p> <p>Area Ratio: 7.64</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 30.0 ng/L</p> <p>Area Ratio: 8.67</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 31.8 ng/L</p> <p>Area Ratio: 3.79</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.87 (1.92) min</p> <p>Calculated Conc: 31.0 ng/L</p> <p>Area Ratio: 4.51</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 30.2 ng/L</p> <p>Area Ratio: 4.66</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 27.7 ng/L</p> <p>Area Ratio: 3.66</p> <p>Sample Type: (Quality Control)</p>	

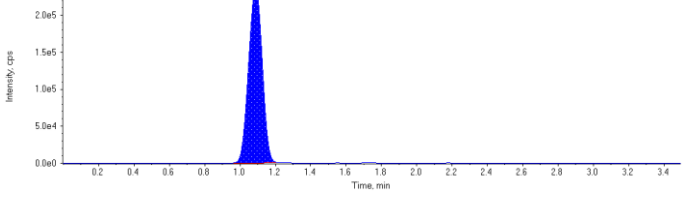
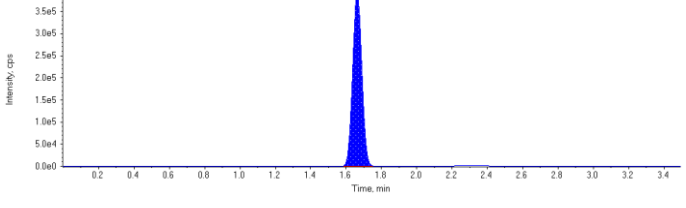
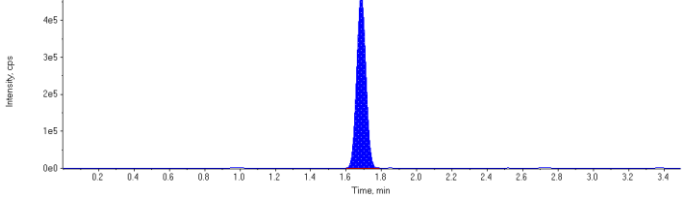
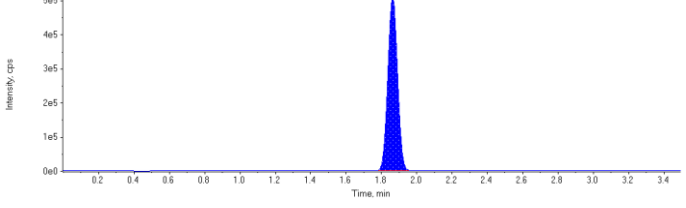
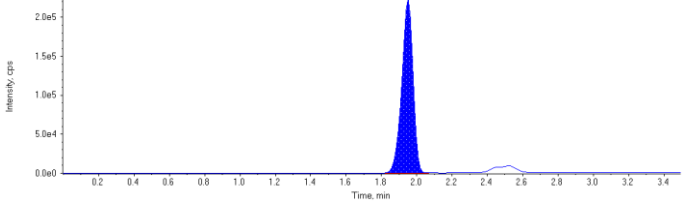
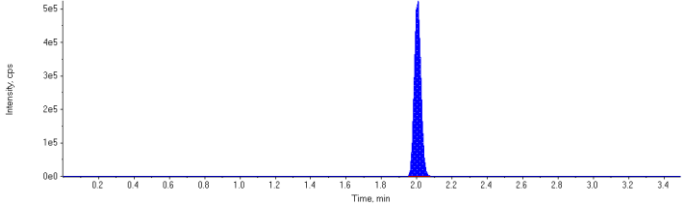
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 104. ng/L</p> <p>Area Ratio: 0.0669</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 95.0 ng/L</p> <p>Area Ratio: 0.182</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 110. ng/L</p> <p>Area Ratio: 0.183</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 115. ng/L</p> <p>Area Ratio: 0.0910</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 114. ng/L</p> <p>Area Ratio: 0.152</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 93.1 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

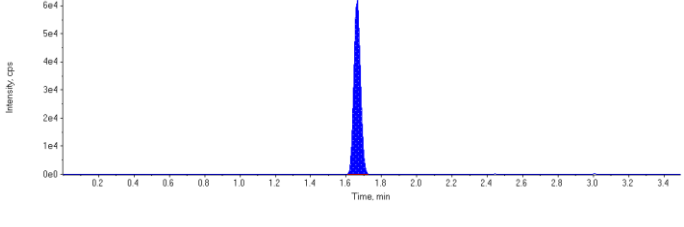
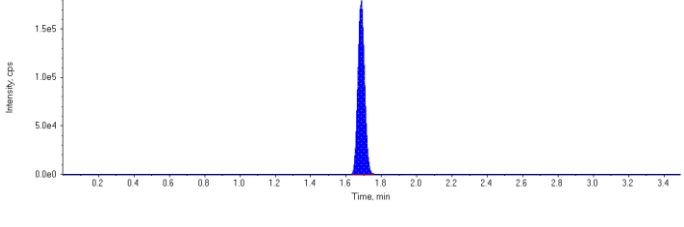
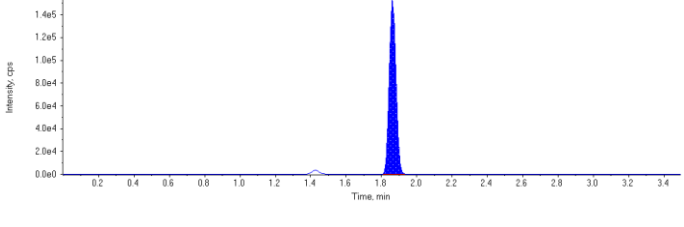
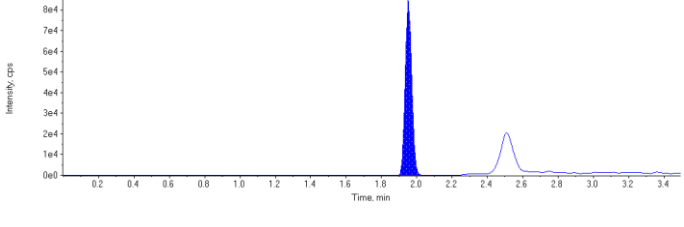
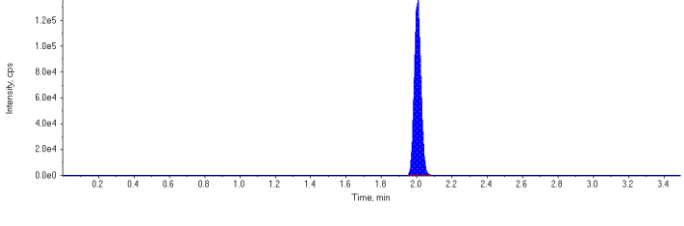
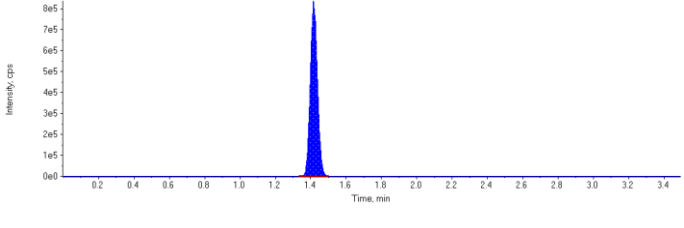
Sample Name	CCV	Injection Vial	6
Sample ID	CCV	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 1:18:35 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394558.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	164000.	1.66	1.00	-
MPFHpA	475000.	1.69	1.00	-
MPFOA	406000.	1.86	1.00	-
MPFOS	214000.	1.95	1.00	-
MPFNA	359000.	2.00	1.00	-
13C6-PFHxA IS	2370000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	1270000	1.09	30.0	28.0	93.3
PFHxS 1	1420000	1.66	30.0	30.1	100.0
PFHpA 1	1710000	1.69	30.0	30.2	101.0
PFOA 1	1940000	1.86	30.0	32.8	109.0
PFOS 1	984000	1.95	30.0	29.8	99.4
PFNA 1	1380000	2.00	30.0	29.0	96.8
18O2-PFHxS	164000	1.66	100.	107.	107.0
13C4-PFHpA	475000	1.69	100.	105.	105.0
13C4-PFOA	406000	1.86	100.	103.	103.0
13C4-PFOS	214000	1.95	100.	115.	115.0
13C5-PFNA	359000	2.00	100.	113.	113.0
13C6-PFHxA	2370000	1.42	100.	95.5	95.5

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.00(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

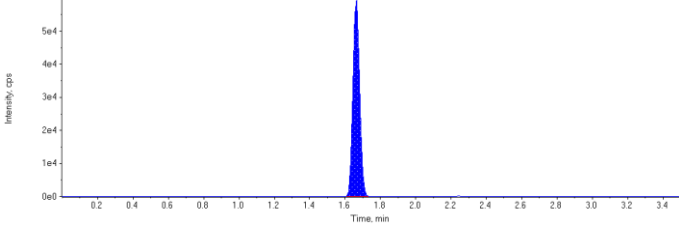
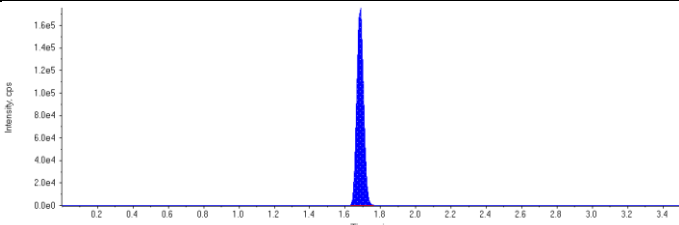
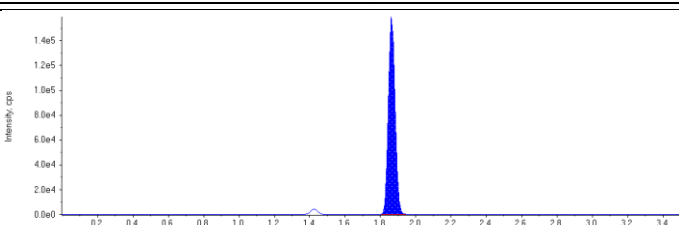
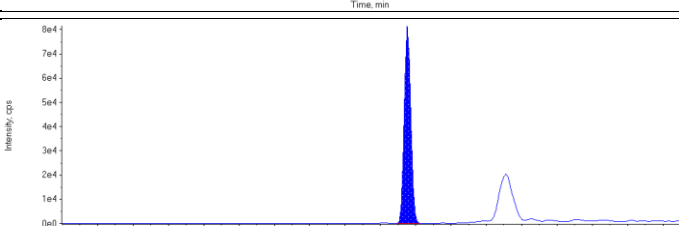
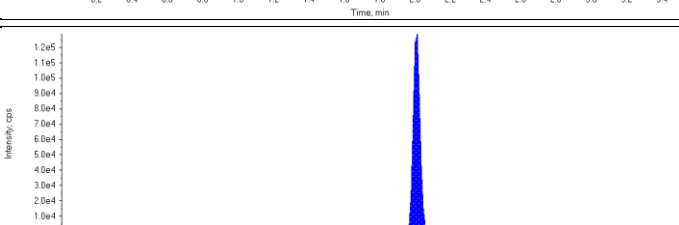
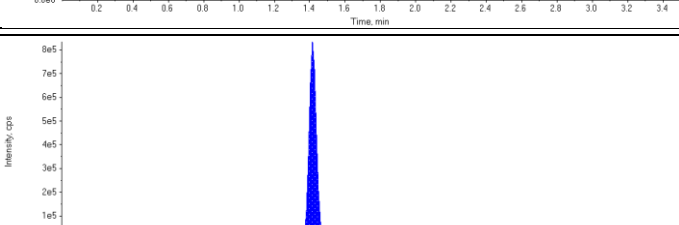
<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 28.0 ng/L</p> <p>Area Ratio: 7.77</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 30.1 ng/L</p> <p>Area Ratio: 8.69</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 30.2 ng/L</p> <p>Area Ratio: 3.60</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.92) min</p> <p>Calculated Conc: 32.8 ng/L</p> <p>Area Ratio: 4.78</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 29.8 ng/L</p> <p>Area Ratio: 4.60</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.00 (2.02) min</p> <p>Calculated Conc: 29.0 ng/L</p> <p>Area Ratio: 3.84</p> <p>Sample Type: (Quality Control)</p>	

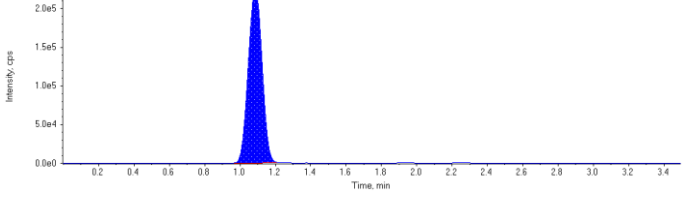
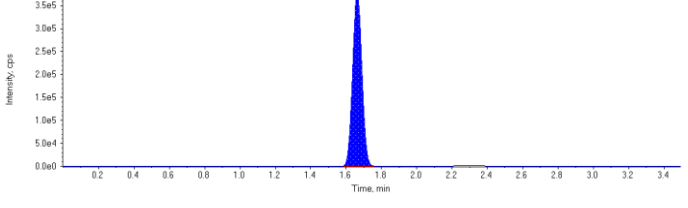
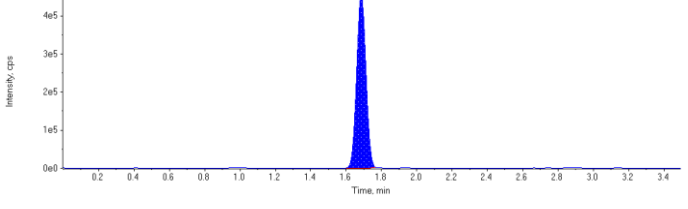
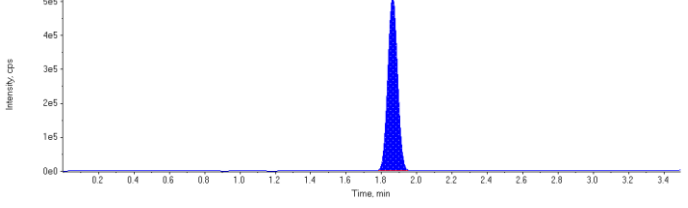
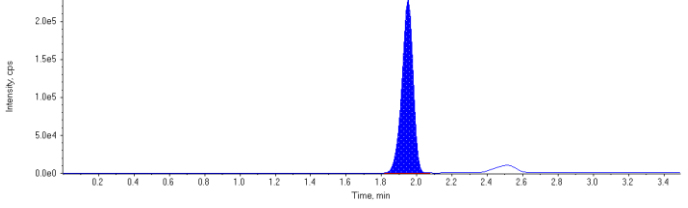
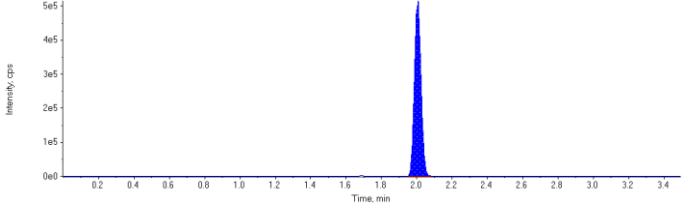
<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 107. ng/L</p> <p>Area Ratio: 0.0692</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.201</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.172</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 115. ng/L</p> <p>Area Ratio: 0.0905</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.00 (2.02) min</p> <p>Calculated Conc: 113. ng/L</p> <p>Area Ratio: 0.152</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 95.5 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	

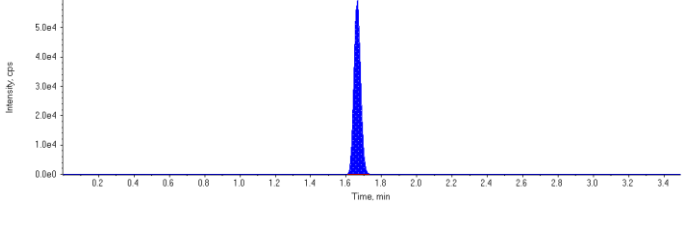
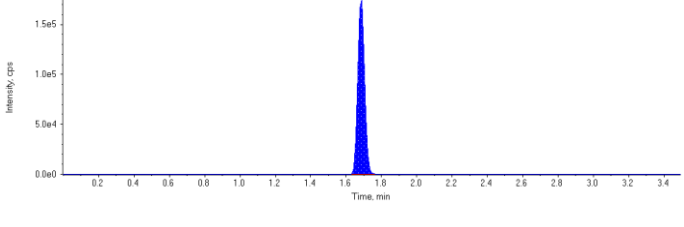
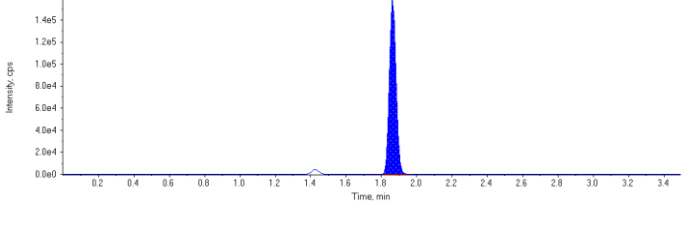
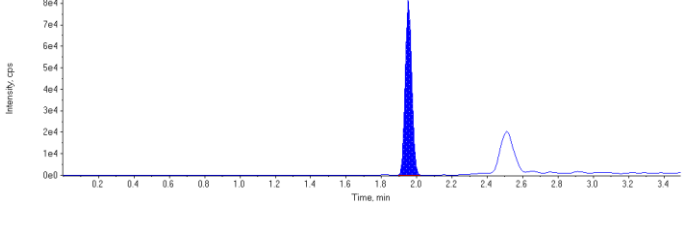
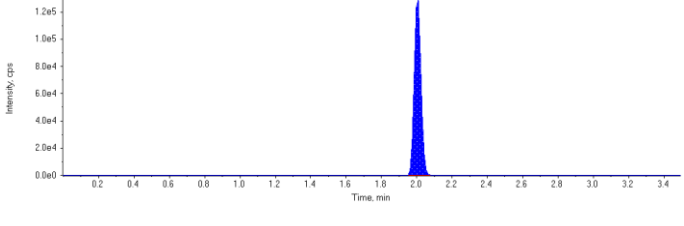
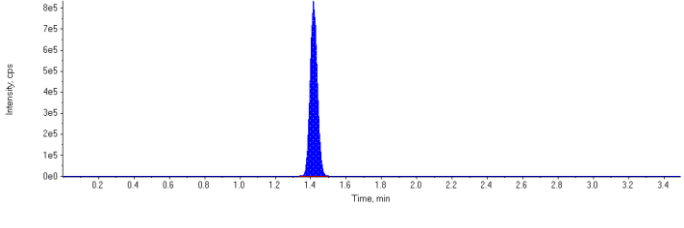
Sample Name	CCV	Injection Vial	6
Sample ID	CCV	Injection Volume (µL)	3
Sample Type	Quality Control	Algorithm Used	Analyst Classic
Acquisition Date	2016/02/29 1:38:59 PM	Dilution Factor	1.00
Acquisition Method	PFC_Water_Low.dam	Sample Annotation	-
Project	Enviro\PFOS	Instrument Name	LCMS03
Data File	PFC_160226\WS#4394551.wiff		
Result Table	PFC_Water_160226_4394551_ULow.rdb		

Internal Standard	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)
MPFHxS	158000.	1.66	1.00	-
MPFHpA	471000.	1.69	1.00	-
MPFOA	416000.	1.86	1.00	-
MPFOS	208000.	1.95	1.00	-
MPFNA	348000.	2.00	1.00	-
13C6-PFHxA IS	2360000.	1.42	1.00	-
N/A	N/A	N/A	N/A	-

Target Analyte	Area (cps)	RT (min)	Target Conc. (ng/L)	Calc. Conc. (ng/L)	Accuracy (%)
PFBS 1	1220000	1.09	30.0	27.9	92.9
PFHxS 1	1380000	1.66	30.0	30.2	101.0
PFHpA 1	1670000	1.69	30.0	29.6	98.8
PFOA 1	1950000	1.86	30.0	32.1	107.0
PFOS 1	1010000	1.95	30.0	31.3	104.0
PFNA 1	1350000	2.01	30.0	29.4	97.9
18O2-PFHxS	158000	1.66	100.	103.	103.0
13C4-PFHpA	471000	1.69	100.	104.	104.0
13C4-PFOA	416000	1.86	100.	105.	105.0
13C4-PFOS	208000	1.95	100.	112.	112.0
13C5-PFNA	348000	2.00	100.	110.	110.0
13C6-PFHxA	2360000	1.42	100.	95.4	95.4

<p>MPFHxS (Internal Standard)</p> <p>RT (Exp. RT): 1.66(1.68) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFHpA (Internal Standard)</p> <p>RT (Exp. RT): 1.69(1.73) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOA (Internal Standard)</p> <p>RT (Exp. RT): 1.86(1.88) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFOS (Internal Standard)</p> <p>RT (Exp. RT): 1.95(1.97) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>MPFNA (Internal Standard)</p> <p>RT (Exp. RT): 2.00(2.02) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA IS (Internal Standard)</p> <p>RT (Exp. RT): 1.42(1.42) min Concentration: 1.00 ng/L Sample Type: (Quality Control)</p>	
<p>N/A (Internal Standard)</p> <p>RT (Exp. RT): N/A(N/A) min Concentration: N/A N/A Sample Type: (Quality Control)</p>	<p style="text-align: center;">This image is not available</p>

<p>PFBS 1 (298.900/79.900 Da)</p> <p>RT (Exp. RT): 1.09 (1.15) min</p> <p>Calculated Conc: 27.9 ng/L</p> <p>Area Ratio: 7.74</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHxS 1 (398.900/79.900 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 30.2 ng/L</p> <p>Area Ratio: 8.73</p> <p>Sample Type: (Quality Control)</p>	
<p>PFHpA 1 (363.000/319.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.75) min</p> <p>Calculated Conc: 29.6 ng/L</p> <p>Area Ratio: 3.53</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOA 1 (413.100/369.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.92) min</p> <p>Calculated Conc: 32.1 ng/L</p> <p>Area Ratio: 4.68</p> <p>Sample Type: (Quality Control)</p>	
<p>PFOS 1 (498.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 31.3 ng/L</p> <p>Area Ratio: 4.84</p> <p>Sample Type: (Quality Control)</p>	
<p>PFNA 1 (462.900/419.000 Da)</p> <p>RT (Exp. RT): 2.01 (2.02) min</p> <p>Calculated Conc: 29.4 ng/L</p> <p>Area Ratio: 3.89</p> <p>Sample Type: (Quality Control)</p>	

<p>18O2-PFHxS (402.900/84.000 Da)</p> <p>RT (Exp. RT): 1.66 (1.68) min</p> <p>Calculated Conc: 103. ng/L</p> <p>Area Ratio: 0.0668</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFHpA (366.900/322.000 Da)</p> <p>RT (Exp. RT): 1.69 (1.73) min</p> <p>Calculated Conc: 104. ng/L</p> <p>Area Ratio: 0.200</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOA (416.900/372.000 Da)</p> <p>RT (Exp. RT): 1.86 (1.88) min</p> <p>Calculated Conc: 105. ng/L</p> <p>Area Ratio: 0.176</p> <p>Sample Type: (Quality Control)</p>	
<p>13C4-PFOS (502.900/79.900 Da)</p> <p>RT (Exp. RT): 1.95 (1.97) min</p> <p>Calculated Conc: 112. ng/L</p> <p>Area Ratio: 0.0882</p> <p>Sample Type: (Quality Control)</p>	
<p>13C5-PFNA (467.900/423.000 Da)</p> <p>RT (Exp. RT): 2.00 (2.02) min</p> <p>Calculated Conc: 110. ng/L</p> <p>Area Ratio: 0.147</p> <p>Sample Type: (Quality Control)</p>	
<p>13C6-PFHxA (318.900/274.000 Da)</p> <p>RT (Exp. RT): 1.42 (1.42) min</p> <p>Calculated Conc: 95.4 ng/L</p> <p>Area Ratio: 0.00</p> <p>Sample Type: (Quality Control)</p>	



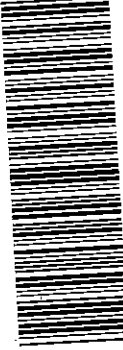
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Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Shipping and Receiving Documents

Chain of Custody Record

Temperature on Receipt 0.9
 Drinking Water? Yes No



CTD WEF76

320-17241 Chain of Custody

TAL-4124 (1007)

Client: CH2M Hill Project Manager: Bill Friedman Chain of Custody Number: 283620

Address: 5701 Cleveland St, Suite 200 Telephone Number (Area Code)/Fax Number: 757-671-6273 Date: 02/09/16 Page 1 of 1

City: VA State: VA Zip Code: 23462 Site Contact: _____ Lab Contact: _____

Project Name and Location (State): Virginia Beach Carrier/Maybill Number: FedEx

Contract/Purchase Order/Quote No.: PO# 10006-7-104000

Special Instructions/Conditions of Receipt: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	
			Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
<u>OF-FB62-0216</u>	<u>02/09/16</u>	<u>0915</u>	<u>X</u>											<u>Select PFCs</u>
<u>OF-RW62-0216</u>		<u>0920</u>												<u>2</u>
<u>OF-FB63-0216</u>		<u>0940</u>												<u>2</u>
<u>OF-RW63-0216</u>		<u>0950</u>												<u>2</u>
<u>OF-FB59-0216</u>		<u>1430</u>												<u>2</u>
<u>OF-RW59-0216</u>		<u>1440</u>												<u>2</u>
<u>OF-Off/FB50-0216</u>		<u>1735</u>												<u>2</u>
<u>OF-RW50-0216</u>		<u>1742</u>												<u>2</u>
<u>OF-FB34-0216</u>		<u>1040</u>												<u>2</u>
<u>OF-RW34-0216</u>		<u>1047</u>												<u>2</u>
<u>OF-FB38-0216</u>	<u>02/09/16</u>	<u>1710</u>												<u>2</u>
<u>OF-RW38-0216</u>	<u>02/09/16</u>	<u>1716</u>												<u>2</u>

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months _____ Months longer than 1 month)

Sample Disposal: Air Sed Soil Aqueous

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

Relinquished By: Kathryn Anich Date: 02/09/16 Time: 19:00

Relinquished By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

Comments: _____

Chain of Custody Record

RUSH

Temperature on Receipt 02-4



CTO WFTG

Drinking Water? Yes No

320-17241 Chain of Custody

Due 2/22

13-Feb-16 13:40

Hongmei Zhao (Grace)



B630790

AKP ENV-1104

Project Manager		Date	Chain of Custody Number
[Redacted]		02/09/16	283620
Telephone Number (Area Code)/Fax Number		Lab Number	
[Redacted]			
Site Contact	Lab Contact	Page 1 of 1	
Carrier/Waybill Number		Analysis (Attach list if more space is needed)	
FedEx			

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description
(Containers for each sample may be combined on one line)

Sample I.D. No. and Description	Date	Time	Matrix					Containers & Preservatives					Select PFGs	
			Air	Aqueous	Solid	Soil	Urine	H2SO4	HNO3	HCl	NaOH	ZnAc2		NaOH
OF-FB62-0216	02/09/16	0915		X				X						2
OF-RW62-0216		0920												2
OF-FB63-0216		0940												2
OF-RW63-0216		0950												2
OF-FB59-0216		1430												2
OF-RW59-0216		1440												2
OF-OFF-FB50-0216		1735												2
OF-RW50-0216		1742												2
OF-FB34-0216		1040												2
OF-RW34-0216		1047												2
OF-FB38-0216	02/09/16	1710												2
OF-RW38-0216	02/09/16	1716												2

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

1. Relinquished By <i>Kathryn Smith</i>	Date 02/09/16	Time 19:00	1. Received By <i>[Signature]</i>	Date 2/10/16	Time 9:15
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By <i>[Signature]</i>	Date 02/10/16	Time 13:40

Comments

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Stays with the Sample. PINK - Field Copy

Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 320-17241-1
SDG Number: CTO WE7G PFC Sampling

Login Number: 17241
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Data Validation Summary

Oceana CTO-WE44, NALF Fentress

TO: Juliana Dean/VBO
Anita Dodson/VBO

FROM: Tiffany McGlynn/GNV

CC: Herb Kelly/GNV

DATE: March 18, 2016

Introduction

The following data validation report discusses the data validation process and findings for TestAmerica Laboratories and Maxxam Laboratories in the Sample Delivery Groups (SDGs) listed in the table below.

Samples were analyzed using the following analytical methods:

- WS-LC-0025 & 537 MOD Perfluorinated Hydrocarbons

The samples included in these SDGs are listed in the table below.

SDG	Sample Name	Matrix
320-17150	OF-RW42B-0216	Water
320-17150	OF-RW39-0216	Water
320-17150	OF-FB40-0216	Water
320-17150	OF-RW40-0216	Water
320-17150	OF-FB43-0216	Water
320-17150	OF-RW43-0216	Water
320-17150	OF-FB42B-0216	Water
320-17150	OF-RW42A-0216	Water
320-17150	OF-FB42A-0216	Water
320-17150	OF-RW35-0216	Water
320-17150	OF-FB35-0216	Water

SDG	Sample Name	Matrix
320-17150	OF-RW58-0216	Water
320-17150	OF-FB58-0216	Water
320-17150	OF-FB39-0216	Water
320-17154	OF-FB09-0216	Water
320-17154	OF-FB67-0216	Water
320-17154	OF-RW09-0216	Water
320-17154	OF-FB37-0216	Water
320-17154	OF-RW37-0216	Water
320-17154	OF-RW11-0216	Water
320-17154	OF-FB11-0216	Water
320-17154	OF-RW28-0216	Water
320-17154	OF-FB28-0216	Water
320-17154	OF-RW67-0216	Water
320-17183	OF-RW66-0216	Water
320-17183	OF-FB27-0216	Water
320-17183	OF-FB66-0216	Water
320-17183	OF-RW49-0216	Water
320-17183	OF-FB49-0216	Water
320-17183	OF-RW36A-0216	Water
320-17183	OF-FB36A-0216	Water
320-17183	OF-RW51A-0216	Water
320-17183	OF-FB51A-0216	Water
320-17183	OF-RW27-0216	Water
320-17184	OF-RW20-0216	Water
320-17184	OF-FB30-0216	Water
320-17184	OF-FB69-0216	Water
320-17184	OF-RW69-0216	Water
320-17184	OF-FB26-0216	Water
320-17184	OF-RW26-0216	Water
320-17184	OF-FB20-0216	Water
320-17184	OF-RW55-0216	Water
320-17184	OF-FB55-0216	Water
320-17184	OF-RW54-0216	Water
320-17184	OF-FB54-0216	Water
320-17184	OF-RW68-0216	Water
320-17184	OF-FB68-0216	Water
320-17184	OF-RW30-0216	Water
320-17185	OF-FB08-0216	Water
320-17185	OF-RW51-0216	Water
320-17185	OF-RW51P-0216	Water

SDG	Sample Name	Matrix
320-17185	OF-RW08-0216	Water
320-17185	OF-RW08P-0216	Water
320-17185	OF-FB41-0216	Water
320-17185	OF-RW41-0216	Water
320-17185	OF-RW41P-0216	Water
320-17185	OF-FB56-0216	Water
320-17185	OF-RW56-0216	Water
320-17185	OF-FB51-0216	Water
320-17190	OF-FB12-0216	Water
320-17190	OF-RW12-0216	Water
320-17190	OF-FB57-0216	Water
320-17190	OF-RW57-0216	Water
320-17190	OF-RW57P-0216	Water
320-17190	OF-FB25-0216	Water
320-17190	OF-RW25-0216	Water
320-17190	OF-FB16-0216	Water
320-17190	OF-RW16-0216	Water
320-17219	OF-FB47-0216	Water
320-17219	OF-RW47-0216	Water
320-17219	OF-FB47A-0216	Water
320-17219	OF-RW47A-0216	Water
320-17219	OF-FB48-0216	Water
320-17219	OF-RW48-0216	Water
320-17236	OF-FB70-0216	Water
320-17236	OF-RW70-0216	Water
320-17236	OF-FB44-0216	Water
320-17236	OF-RW44-0216	Water
320-17236	OF-RW44P-0216	Water
320-17236	OF-FB65-0216	Water
320-17236	OF-RW65-0216	Water
320-17236	OF-FB21-0216	Water
320-17236	OF-RW21-0216	Water
320-17241	OF-FB62-0216	Water
320-17241	OF-RW34-0216	Water
320-17241	OF-FB38-0216	Water
320-17241	OF-RW38-0216	Water
320-17241	OF-RW62-0216	Water
320-17241	OF-FB63-0216	Water
320-17241	OF-RW63-0216	Water
320-17241	OF-FB59-0216	Water

SDG	Sample Name	Matrix
320-17241	OF-RW59-0216	Water
320-17241	OF-FB50-0216	Water
320-17241	OF-RW50-0216	Water
320-17241	OF-FB34-0216	Water
320-17278	OF-FB24-0216	Water
320-17278	OF-RW24-0216	Water
320-17278	OF-FB31-0216	Water
320-17278	OF-RW31-0216	Water
320-17278	OF-FB60-0216	Water
320-17278	OF-RW60-0216	Water
320-17278	OF-RW60P-0216	Water
320-17278	OF-FB46-0216	Water
320-17278	OF-RW46-0216	Water
320-17321	OF-FB02-0216	Water
320-17321	OF-RW02-0216	Water
320-17321	OF-FB15-0216	Water
320-17321	OF-RW15-0216	Water
320-17321	OF-FB18-0216	Water
320-17321	OF-RW18-0216	Water
320-17859	OF-FB07-0316	Water
320-17859	OF-RW07-0316	Water
320-17859	OF-HPFB01-0316	Water
320-17859	OF-HP01-0316	Water

Data Evaluation

Data was evaluated in accordance with the analytical methods and with the criteria found in the following guidance documents: Sampling and Analysis Plan Perfluorinated Compound Investigation, Naval Auxiliary Landing Field Fentress, Chesapeake, Virginia Contract Task Order WE44 (December 2015) and National Functional Guidelines for Organic Data Review (August 2014) with Region 3 Modification (Use of 'B' qualifier) as applicable. The samples were evaluated based on the following criteria:

- Data Completeness
- Technical Holding Times
- Tuning Instrument
- Initial/Continuing Calibrations
- Blanks

- Internal Standards
- Laboratory Control Samples
- Isotope Dilution Analyte
- Field Duplicates
- Identification/Quantitation
- Reporting Limits

Overall Evaluation of Data/Potential Usability Issues

Specific details regarding qualification of the data are addressed in the sections below. If an issue is not addressed there were no actions required based on unmet quality criteria. When more than one qualifier is associated with a compound/analyte, the validator has chosen the qualifier that best indicates possible bias in the results and qualified these data accordingly.

Data Completeness

The SDG was received complete and intact.

Technical Holding Times

According to the chain of custody records, sampling was performed on 2/3/16 through 2/16/16. Samples were received at the laboratory 2/4/16 through 2/17/16. All sample preparation and analyses were performed within holding time requirements with the exception of the samples listed below. Affected data are summarized in **Attachment 1**.

Sample Name	SDG
OF-RW42B-0216	320-17150
OF-RW08-0216	320-17185
OF-RW08P-0216	320-17185
OF-FB62-0216	320-17241
OF-RW34-0216	320-17241
OF-FB38-0216	320-17241
OF-RW38-0216	320-17241
OF-RW62-0216	320-17241
OF-FB63-0216	320-17241
OF-RW63-0216	320-17241
OF-FB59-0216	320-17241

Sample Name	SDG
OF-RW59-0216	320-17241
OF-FB50-0216	320-17241
OF-RW50-0216	320-17241
OF-FB34-0216	320-17241

Blanks

Several compounds were detected in the field blanks and method blanks as listed below. Affected data are summarized in **Attachment 1**.

SDG	Blank ID	Compound	Conc.	Units
320-17183	OF-FB49-0216	Perfluorohexanesulfonic acid (PFHxS)	0.00068	UG_L
320-17183	OF-FB36A-0216	Perfluorooctane Sulfonate (PFOS)	0.00042	UG_L
320-17185	OF-FB51-0216	Perfluorobutanesulfonic acid (PFBS)	0.00063	UG_L
320-17190	OF-FB12-0216	Perfluorohexanesulfonic acid (PFHxS)	0.00079	UG_L
320-17190	OF-FB57-0216	Perfluorohexanesulfonic acid (PFHxS)	0.00083	UG_L
320-17190	OF-FB25-0216	Perfluorobutanesulfonic acid (PFBS)	0.00092	UG_L
320-17190	OF-FB16-0216	Perfluorobutanesulfonic acid (PFBS)	0.0011	UG_L
320-17190	MB 320-100277/1-A	Perfluorobutanesulfonic acid (PFBS)	0.00103	UG_L
320-17190	MB 320-100277/1-A	Perfluorohexanesulfonic acid (PFHxS)	0.00102	UG_L
320-17190	MB 320-100277/1-A	Perfluorooctane Sulfonate (PFOS)	0.00144	UG_L
320-17859	MB 320-104553/1-A	Perfluorooctanoic acid (PFOA)	0.00217	UG_L

Field Duplicate Precision

Perfluoroheptanoic acid (PFHpA) did not meet required precision criteria in native sample OF-RW51-0216 and field duplicate OF-RW51P-0216. Affected data are summarized in **Attachment 1**.

Matrix Spike/Spike Duplicate

For spiked sample OF-RW56-0216 in SDG 320-17185, perfluorobutanesulfonic acid (PFBS) exhibited high recoveries in the MS/MSD. Affected data are summarized in **Attachment 1**.

Surrogates

Surrogates for the samples listed below exhibited low recoveries. Affected data are summarized in **Attachment 1**.

Sample Name	SDG
OF-RW67-0216	320-17154
OF-RW47-0216	320-17219
OF-RW70-0216	320-17236

Sample Name	SDG
OF-RW24-0216	320-17278

Internal Standards

Internal standards exhibited low recoveries for the samples listed below. Affected data are summarized in **Attachment 1**.

Sample Name	SDG
OF-RW37-0216	320-17154
OF-FB56-0216	320-17185

Conclusion

These data can be used in the project decision-making process as qualified by the data quality evaluation process.

Please do not hesitate to contact us about this validation report.

Sincerely,



Tiffany McGlynn

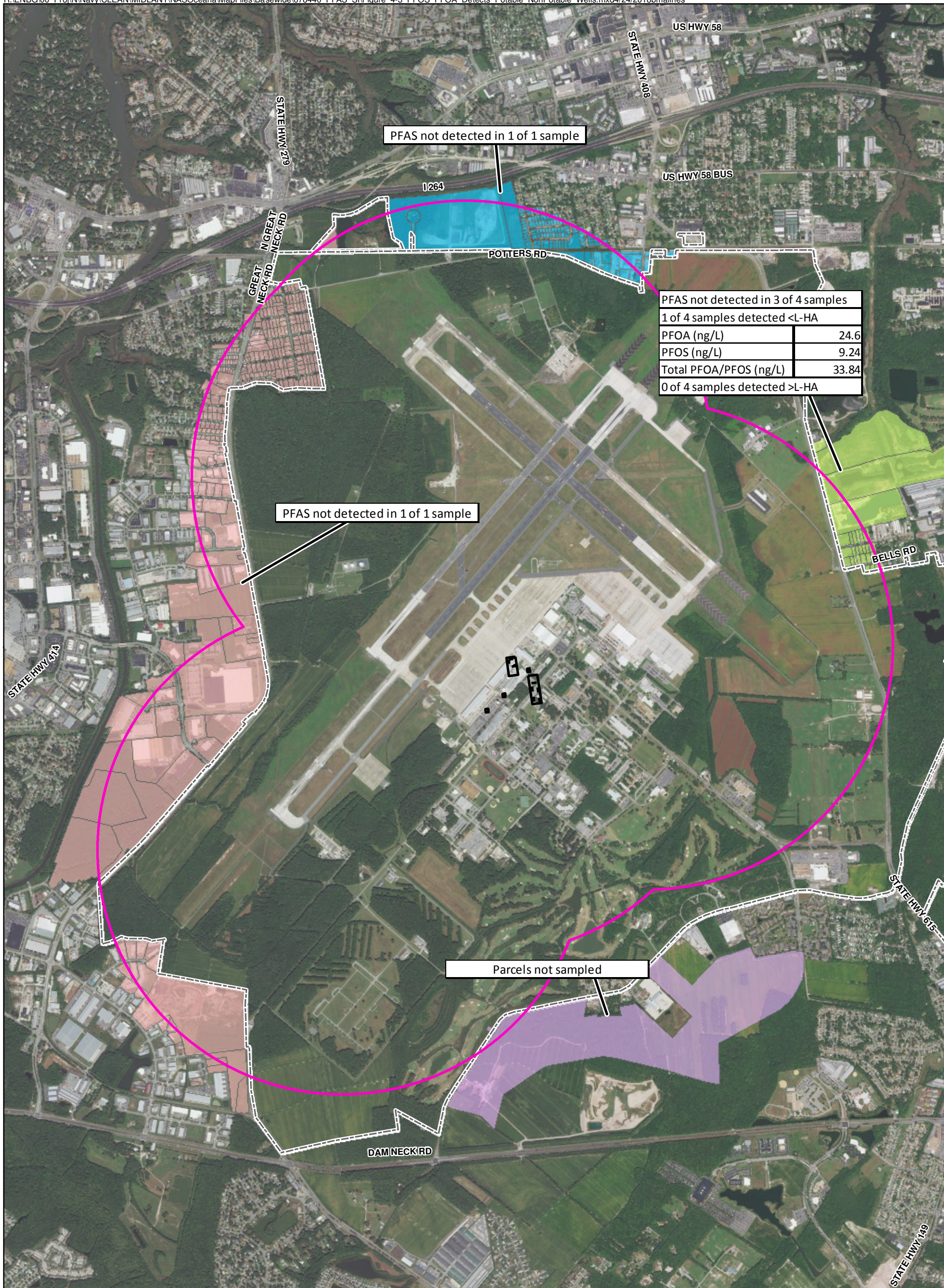
Qualification Flags

Exclude	More appropriate data exist for this analyte.
R	Data were rejected for use.
UL	Analyte not detected, quantitation limit is potentially biased low.
UJ	Analyte not detected, estimated quantitation limit.
U	Analyte not detected.
B	Not detected substantially above the level reported in laboratory or field blanks.
L	Analyte present, estimated value potentially biased low.
K	Analyte present, estimated value potentially biased high.
N	Analyte identification presumptive; no second column analysis performed or GC/MS tentative identification.
J	Analyte present, estimated value.
NJ	Analysis indicates the presence of an analyte that was "tentatively identified" and the associated value represents its approximate concentration.
None	Placeholder for calculating quality control issues that do not require flagging.
=	Analyte was detected at a concentration greater than the quantitation limit.

Qualifier Code Reference

Value	Description
%SOL	High Moisture content
2C	Second Column – Poor Dual Column Reproducibility
2S	Second Source – Bad reproducibility between tandem detectors
BD	Blank Spike/Blank Spike Duplicate(LCS/LCSD) Precision
BRL	Below Reporting Limit
BSH	Blank Spike/LCS – High Recovery
BSL	Blank Spike/LCS – Low Recovery
CC	Continuing Calibration
CCBL	Continuing Calibration Blank Contamination
CCH	Continuing Calibration Verification – High Recovery
CCL	Continuing Calibration Verification – Low Recovery
DL	Redundant Result – due to Dilution
EBL	Equipment Blank Contamination
EMPC	Estimated Possible Maximum Concentration
ESH	Extraction Standard - High Recovery
ESL	Extraction Standard - Low Recovery
FBL	Field Blank Contamination
FD	Field Duplicate
HT	Holding Time
ICB	Initial Calibration – Bad Linearity or Curve Function
ICH	Initial Calibration – High Relative Response Factors
ICL	Initial Calibration – Low Relative Response Factors
IR15	Ion ratio exceeds +/- 15% difference
ISH	Internal Standard – High Recovery
ISL	Internal Standard – Low Recovery
LD	Lab Duplicate Reproducibility
LR	Concentration Exceeds Linear Range
MBL	Method Blank Contamination
MDP	Matrix Spike/Matrix Spike Duplicate Precision
MI	Matrix interference obscuring the raw data

Value	Description
MSH	Matrix Spike and/or Matrix Spike Duplicate – High Recovery
MSL	Matrix Spike and/or Matrix Spike Duplicate – Low Recovery
OT	Other
PD	Pesticide Degradation
RE	Redundant Result - due to Reanalysis or Re-extraction
SD	Serial Dilution Reproducibility
SSH	Spiked Surrogate – High Recovery
SSL	Spiked Surrogate – Low Recovery
TBL	Trip Blank Contamination
TN	Tune



- Legend**
- Non-Core Target Treatment Area (2004)
 - - Core Target Treatment Area (2004) (Core)
 - ▭ Sampling Area
 - ▭ Installation Boundary
 - Off-Base Parcels**
 - ▭ East
 - ▭ North
 - ▭ South
 - ▭ West

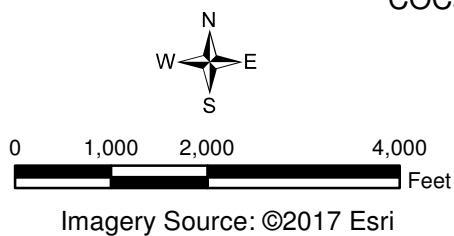


Figure 4-3
COCs Detections in Potable Wells Sampled from Parcels Located Off-Base
Basewide Per- and Polyfluoroalkyl Substances Site Inspection Report
NAS Oceana, Virginia Beach, Virginia