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March 7, 2016

Via Email and Regular Mail

Amy R. Chester, Assistant Regional Counsel
United States Environmental Protection
Agency – Region 2
290 Broadway, 16th Floor
New York, NY 10007-1866
Chester.Amy@epa.gov

Re: Saint-Gobain Performance Plastics Corporation
Request for Information Pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. § 9601 et seq.

Dear Ms. Chester:

On behalf of my client Saint-Gobain Performance Plastics Corporation ("SGPP"), I write in response to your email, dated February 24, 2016, concerning SGPP's response to the United States Environmental Protection Agency's ("USEPA") request for information pursuant to Section 104(e) of the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"), 42 U.S.C. § 9604(e) (the "104(e) Request"). First, this letter shall confirm that the files you identified in your email: (1) 2014 12 30 Final 8e notice; (2) 2015 03 17 KH to TSCA Section 8e . . .; (3) Follow-up 8(e) 2015-04-27; and (4) SGPP TSCA Sub. are no longer considered Confidential Business Information by SGPP. Second, the enclosure for the March 17, 2015 letter that SGPP submitted in response to the 104(e) Request ("2015 03 17 KH to TSCA Section 8e . . .") was inadvertently excluded from SGPP's response and is enclosed as Attachment A. Finally, upon further review, SGPP identified additional water sampling that was conducted at the McCaffrey St. facility in connection with the sewer integrity inspection and the results of that sampling are also enclosed as Attachment B.

Please feel free to contact me if you have any questions.

Very truly yours,

CHRISTOPHER R. GIBSON

Enclosure

113883908v1

A

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LABORATORY REPORT

This report contains 141 pages.
(including the cover page)

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: C.T. Male Associates

Attn: Kirk Moline
50 Century Hill Drive
Latham, NY 12110

Report: 334008
Priority: Rush Written
Status: Final
PWS ID: Not Supplied

Copies to: None

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3185880	LTB-01/29/15	537	02/11/15 09:25	EEA	02/12/15 09:45
3185881	Finished Water	537	02/11/15 09:34	Client	02/12/15 09:45
3185882	Well 7	537	02/11/15 10:11	Client	02/12/15 09:45
3185885	Well 3	537	02/11/15 10:57	Client	02/12/15 09:45
3185886	Field Equipment Blank	537	02/11/15 10:34	Client	02/12/15 09:45
3185887	Well 10	537	02/11/15 11:30	Client	02/12/15 09:45
3185888	Well 6	537	02/11/15 11:27	Client	02/12/15 09:45

Report Summary

Note: In the Method 537 analysis, the perfluorooctanoic acid (PFOA) recoveries in the MS and MSD at 250 ng/L (12% and 9%, respectively) were low biased outside the acceptance limits of 70-130%. Data entry is not calculating percent recoveries properly on this dilution. Actual recoveries were at 117% and 90%, respectively, which pass acceptance limits.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Trott at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Kelly Trott Analytical Services Manager — 02/18/2015

Authorized Signature — Title — Date

Client Name: C.T. Male Associates
Report #: 334008

Client Name: C.T. Male Associates

Report #: 334008

Sampling Point: LTB-01/29/15

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	02/13/15 07:30	02/14/15 18:17	3185880
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	02/13/15 07:30	02/14/15 18:17	3185880
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	02/13/15 07:30	02/14/15 18:17	3185880
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	02/13/15 07:30	02/14/15 18:17	3185880
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	02/13/15 07:30	02/14/15 18:17	3185880
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	02/13/15 07:30	02/14/15 18:17	3185880

Sampling Point: Finished Water

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	02/13/15 07:30	02/14/15 23:26	3185881
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**10**	ng/L	02/13/15 07:30	02/14/15 23:26	3185881
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	02/13/15 07:30	02/14/15 23:26	3185881
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	02/13/15 07:30	02/14/15 23:26	3185881
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	02/13/15 07:30	02/14/15 23:26	3185881
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**480**	ng/L	02/13/15 07:30	02/16/15 20:27	3185881

Sampling Point: Well 7

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	02/13/15 07:30	02/15/15 01:30	3185882
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**10**	ng/L	02/13/15 07:30	02/15/15 01:30	3185882
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	02/13/15 07:30	02/15/15 01:30	3185882
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	02/13/15 07:30	02/15/15 01:30	3185882
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	02/13/15 07:30	02/15/15 01:30	3185882
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**490**	ng/L	02/13/15 07:30	02/16/15 21:29	3185882

Client Name: C.T. Male Associates

Report #: 334008

Sampling Point: Well 3

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	02/13/15 07:30	02/14/15 23:57	3185885
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	02/13/15 07:30	02/14/15 23:57	3185885
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	02/13/15 07:30	02/14/15 23:57	3185885
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	02/13/15 07:30	02/14/15 23:57	3185885
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	02/13/15 07:30	02/14/15 23:57	3185885
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	150	ng/L	02/13/15 07:30	02/14/15 23:57	3185885

Sampling Point: Field Equipment Blank

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	02/13/15 07:30	02/14/15 18:48	3185886
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	02/13/15 07:30	02/14/15 18:48	3185886
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	02/13/15 07:30	02/14/15 18:48	3185886
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	02/13/15 07:30	02/14/15 18:48	3185886
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	02/13/15 07:30	02/14/15 18:48	3185886
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	02/13/15 07:30	02/14/15 18:48	3185886

Sampling Point: Well 10

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	02/13/15 07:30	02/15/15 00:28	3185887
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	02/13/15 07:30	02/15/15 00:28	3185887
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	02/13/15 07:30	02/15/15 00:28	3185887
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	02/13/15 07:30	02/15/15 00:28	3185887
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	02/13/15 07:30	02/15/15 00:28	3185887
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	150	ng/L	02/13/15 07:30	02/15/15 00:28	3185887

Client Name: C.T. Male Associates

Report #: 334008

Sampling Point: Well 6

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	02/13/15 07:30	02/15/15 00:59	3185888
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	02/13/15 07:30	02/15/15 00:59	3185888
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	02/13/15 07:30	02/15/15 00:59	3185888
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	02/13/15 07:30	02/15/15 00:59	3185888
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	02/13/15 07:30	02/15/15 00:59	3185888
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**390**	ng/L	02/13/15 07:30	02/16/15 20:58	3185888

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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Order # 270648

Batch # 3340078 SS 2/12-15

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UCMR 3 CHAIN OF CUSTODY RECORD (DSMRT)

Page 1 of 1

REPORT TO: Dan Reilly d.reilly@ctmale.com

BILL TO: CT Male Associates 50 Century Hill Dr Latham NY 12110

SAMPLER (Signature): [signature]

PWS ID #:

STATE (sample origin): NY

Source Water Type: Raw Water and Finished Water

PO#: 14.4756

Sample Point Type: Distribution Maximum Residence Time (DSMRT)

Sampling Event: Sampling Event ____

Receiving Checks

RUSH WRITTEN

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	Facility ID	Test Name UCMR3-	SAMPLE REMARKS	pH	Residual Chlorine (P/A*)	# OF CONTAINERS
1								~~200.8 (Metals)~~		A	~~NA~~	~~1~~
2								~~200.8 FTB (Metals)~~			~~NA~~	~~1~~
3								~~300.1 (Chlorate)~~		NA		~~1~~
4								~~218.7 (Hexavalent Chromium)~~				~~1~~
5	3185880	2/11/15	0925	X		LTB 1-29-15 per orders		EPA 537	CIA			1
6	881	2/11/15	0934	X		Finished Water		EPA 537				3
7	882 S	2/11/15	1011	X		Well 7 MS=3185883	MSD=3185884	EPA 537	MS/MSD			9
8	885	2/11/15	1057	X		Well 3		EPA 537				3
9	886	2/11/15	1034	X		Field Equipment Blank		EPA 537				3
10	887	2/11/15	1130	X		Well 10		EPA 537				3
11	888	2/11/15	1127	X		Well 6		EPA 537				3
12												

Cross Offs on COC by Client

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
[signature]	2/11/15	1430 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY: [signature]	DATE 2/12/15	TIME 0945 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

EDA
Fisher Lot 142360
Prep Lot SR3-23A
Exp: 2/27/2015

218.7 Buffer
Prep Lot SR3:23B
Exp: 2/27/2015

CONDITIONS UPON RECEIPT: X Iced/Wet/Blue 2.6 °C Upon Receipt

Samples received within 48 hours of collection must be received at a temperature of ≤ 10°C, samples received past 48 hours of collection must be received at a temperature of ≤ 6°C.

KEY
^See Metal Samples Preservation Log
*P = Present
*A = Absent

UCMR3 acceptance criteria for Receiving Checks:
200.8 pH < 2
218.7 pH > 8
300.1 and 218.7 must be absent of residual chlorine.

EPA Level 4 Deliverables
5 DAY Turn-Around-Time

06-LO-F0663 Issue: 3.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

QA - Method Detection Limit Study

Method:	537	Analyzed by:	Whitaker	Approved by: R Day	Date: 10/21/2011
Instrument:	CY	Prepped by:	Burkhead	Comments: There is no 10X rule.	
Units:	ng/L				
Matrix Type:	RW	Number of months next study due:	12		

Earliest Analysis date	Parameter	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	mean	sd	Calculated MDL	Target concentration	Analysis I RID Rep 1
10/14/2011	PFBS	99.1595	101.261	104.356	98.3886	96.5103	101	103.049	100.5321	2.71909	***8.546102***	90	
10/14/2011	PFHpA	12.2665	12.0965	11.767	11.7568	11.1026	11.2561	13.2038	11.92133	0.70217	2.206934	10	
10/14/2011	PFHxS	28.8373	29.7226	30.3839	29.7103	28.1897	28.6328	30.6656	29.44889	0.92407	***2.904367***	30	
10/14/2011	PFOA	22.6614	23.4752	22.5396	22.7265	21.845	22.4112	23.0914	22.67861	0.51531	***1.619625***	20	
10/14/2011	PFNA	23.6666	22.9716	22.8879	21.6094	22.23	21.8192	22.7273	22.55886	0.71773	2.255819	20	
10/14/2011	PFOS	38.9248	38.3415	39.6019	40.2665	38.5245	38.9371	38.602	39.02833	0.68172	***2.142636***	40	

ED_001342_00001134-00011

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Run Log

Run ID: **199717** Method: **537**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	3187154		OS	CY	02/14/2015 14:10	021415M537a.mdb
LRB	3187132		RW	CY	02/14/2015 15:43	021415M537a.mdb
FBL	3187137		RW	CY	02/14/2015 16:14	021415M537a.mdb
FBH	3187138		RW	CY	02/14/2015 16:45	021415M537a.mdb
LTB	3185880	LTB-01/29/15	RW	CY	02/14/2015 18:17	021415M537a.mdb
FEB	3185886	Field Equipment Blank	RW	CY	02/14/2015 18:48	021415M537a.mdb
FS	3185881	Finished Water	DW	CY	02/14/2015 23:26	021415M537a.mdb
FS	3185885	Well 3	GW	CY	02/14/2015 23:57	021415M537a.mdb
FS	3185887	Well 10	GW	CY	02/15/2015 00:28	021415M537a.mdb
FS	3185888	Well 6	GW	CY	02/15/2015 00:59	021415M537a.mdb
FS	3185882	Well 7	GW	CY	02/15/2015 01:30	021415M537a.mdb
LFSMH	3185883	Well 7	GW	CY	02/15/2015 02:01	021415M537a.mdb
LFSMDH	3185884	Well 7	GW	CY	02/15/2015 02:32	021415M537a.mdb
CCM	3185641		OS	CY	02/15/2015 03:03	021415M537a.mdb

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	IS-PFOA-13C2	537	N/A	---		2.29	2285.15	% Recovery	100	70 - 140	---	---	1.0	02/13/2015 13:00	02/14/2015 14:10	3187154
CCL	IS-PFOS-13C4	537	N/A	---		2.35	2349.79	% Recovery	100	70 - 140	---	---	1.0	02/13/2015 13:00	02/14/2015 14:10	3187154
CCL	SS-PFDA-13C2	537	N/A	---		0.0919	100	% Recovery	92	70 - 130	---	---	1.0	02/13/2015 13:00	02/14/2015 14:10	3187154
CCL	SS-PFHxA-13C2	537	N/A	---		0.0488	50.0	% Recovery	98	70 - 130	---	---	1.0	02/13/2015 13:00	02/14/2015 14:10	3187154
CCL	Perfluorobutanesulfonic acid (PFBS)	537	0.09	---		0.0911	90.0	% Recovery	101	50 - 150	---	---	1.0	02/13/2015 13:00	02/14/2015 14:10	3187154
CCL	Perfluoroheptanoic acid (PFHpA)	537	0.01	---		0.0102	10.0	% Recovery	102	50 - 150	---	---	1.0	02/13/2015 13:00	02/14/2015 14:10	3187154
CCL	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	---		0.0306	30.0	% Recovery	102	50 - 150	---	---	1.0	02/13/2015 13:00	02/14/2015 14:10	3187154
CCL	Perfluorononanoic acid (PFNA)	537	0.02	---		0.0206	20.0	% Recovery	103	50 - 150	---	---	1.0	02/13/2015 13:00	02/14/2015 14:10	3187154
CCL	Perfluorooctane sulfonate (PFOS)	537	0.04	---		0.0411	40.0	% Recovery	103	50 - 150	---	---	1.0	02/13/2015 13:00	02/14/2015 14:10	3187154
CCL	Perfluorooctanoic acid (PFOA)	537	0.02	---		0.0208	20.0	% Recovery	104	50 - 150	---	---	1.0	02/13/2015 13:00	02/14/2015 14:10	3187154
LRB	IS-PFOA-13C2	537	N/A	---		2.41	2285.15	% Recovery	105	70 - 140	---	---	1.0	02/13/2015 07:30	02/14/2015 15:43	3187132
LRB	IS-PFOS-13C4	537	N/A	---		2.49	2349.79	% Recovery	106	70 - 140	---	---	1.0	02/13/2015 07:30	02/14/2015 15:43	3187132
LRB	SS-PFDA-13C2	537	N/A	---		0.0975	100	% Recovery	98	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 15:43	3187132
LRB	SS-PFHxA-13C2	537	N/A	---		0.0468	50.0	% Recovery	94	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 15:43	3187132
LRB	Perfluorobutanesulfonic acid (PFBS)	537	0.09	---	<	0.09		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 15:43	3187132
LRB	Perfluoroheptanoic acid (PFHpA)	537	0.01	---	<	0.01		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 15:43	3187132
LRB	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	---	<	0.03		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 15:43	3187132
LRB	Perfluorononanoic acid (PFNA)	537	0.02	---	<	0.02		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 15:43	3187132
LRB	Perfluorooctane sulfonate (PFOS)	537	0.04	---	<	0.04		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 15:43	3187132
LRB	Perfluorooctanoic acid (PFOA)	537	0.02	---	<	0.02		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 15:43	3187132
FBL	IS-PFOA-13C2	537	N/A	---		2.47	2285.15	% Recovery	108	70 - 140	---	---	1.0	02/13/2015 07:30	02/14/2015 16:14	3187137
FBL	IS-PFOS-13C4	537	N/A	---		2.53	2349.79	% Recovery	108	70 - 140	---	---	1.0	02/13/2015 07:30	02/14/2015 16:14	3187137
FBL	SS-PFDA-13C2	537	N/A	---		0.0986	100	% Recovery	99	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 16:14	3187137
FBL	SS-PFHxA-13C2	537	N/A	---		0.0485	50.0	% Recovery	97	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 16:14	3187137
FBL	Perfluorobutanesulfonic acid (PFBS)	537	0.09	---		0.0949	90.0	% Recovery	105	50 - 150	---	---	1.0	02/13/2015 07:30	02/14/2015 16:14	3187137
FBL	Perfluoroheptanoic acid (PFHpA)	537	0.01	---		0.0101	10.0	% Recovery	101	50 - 150	---	---	1.0	02/13/2015 07:30	02/14/2015 16:14	3187137
FBL	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	---		0.0317	30.0	% Recovery	106	50 - 150	---	---	1.0	02/13/2015 07:30	02/14/2015 16:14	3187137
FBL	Perfluorononanoic acid (PFNA)	537	0.02	---		0.0212	20.0	% Recovery	106	50 - 150	---	---	1.0	02/13/2015 07:30	02/14/2015 16:14	3187137
FBL	Perfluorooctane sulfonate (PFOS)	537	0.04	---		0.0420	40.0	% Recovery	105	50 - 150	---	---	1.0	02/13/2015 07:30	02/14/2015 16:14	3187137
FBL	Perfluorooctanoic acid (PFOA)	537	0.02	---		0.0205	20.0	% Recovery	102	50 - 150	---	---	1.0	02/13/2015 07:30	02/14/2015 16:14	3187137
FBH	IS-PFOA-13C2	537	N/A	---		2.37	2285.15	% Recovery	104	70 - 140	---	---	1.0	02/13/2015 07:30	02/14/2015 16:45	3187138
FBH	IS-PFOS-13C4	537	N/A	---		2.53	2349.79	% Recovery	108	70 - 140	---	---	1.0	02/13/2015 07:30	02/14/2015 16:45	3187138
FBH	SS-PFDA-13C2	537	N/A	---		0.1079	100	% Recovery	108	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 16:45	3187138
FBH	SS-PFHxA-13C2	537	N/A	---		0.0506	50.0	% Recovery	101	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 16:45	3187138
FBH	Perfluorobutanesulfonic acid (PFBS)	537	0.09	---		1.0884	1125	% Recovery	97	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 16:45	3187138
FBH	Perfluoroheptanoic acid (PFHpA)	537	0.01	---		0.1222	125	% Recovery	98	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 16:45	3187138
FBH	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	---		0.3596	375	% Recovery	96	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 16:45	3187138
FBH	Perfluorononanoic acid (PFNA)	537	0.02	---		0.2495	250	% Recovery	100	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 16:45	3187138
FBH	Perfluorooctane sulfonate (PFOS)	537	0.04	---		0.4911	500	% Recovery	98	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 16:45	3187138
FBH	Perfluorooctanoic acid (PFOA)	537	0.02	---		0.2487	250	% Recovery	99	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 16:45	3187138

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
LTB	IS-PFOA-13C2	537	N/A	LTB-01/29/15		2.14	2285.15	% Recovery	93	70 - 140	---	---	0.99	02/13/2015 07:30	02/14/2015 18:17	3185880
LTB	IS-PFOS-13C4	537	N/A	LTB-01/29/15		2.32	2349.79	% Recovery	99	70 - 140	---	---	0.99	02/13/2015 07:30	02/14/2015 18:17	3185880
LTB	SS-PFDA-13C2	537	N/A	LTB-01/29/15		0.0977	100	% Recovery	99	70 - 130	---	---	0.99	02/13/2015 07:30	02/14/2015 18:17	3185880
LTB	SS-PFHxA-13C2	537	N/A	LTB-01/29/15		0.0490	50.0	% Recovery	99	70 - 130	---	---	0.99	02/13/2015 07:30	02/14/2015 18:17	3185880
LTB	Perfluorobutanesulfonic acid (PFBS)	537	0.09	LTB-01/29/15	<	0.09		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:17	3185880
LTB	Perfluoroheptanoic acid (PFHpA)	537	0.01	LTB-01/29/15	<	0.01		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:17	3185880
LTB	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	LTB-01/29/15	<	0.03		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:17	3185880
LTB	Perfluorononanoic acid (PFNA)	537	0.02	LTB-01/29/15	<	0.02		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:17	3185880
LTB	Perfluorooctane sulfonate (PFOS)	537	0.04	LTB-01/29/15	<	0.04		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:17	3185880
LTB	Perfluorooctanoic acid (PFOA)	537	0.02	LTB-01/29/15	<	0.02		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:17	3185880
FEB	IS-PFOA-13C2	537	N/A	Field Equipment Blank		2.32	2285.15	% Recovery	102	70 - 140	---	---	0.99	02/13/2015 07:30	02/14/2015 18:48	3185886
FEB	IS-PFOS-13C4	537	N/A	Field Equipment Blank		2.41	2349.79	% Recovery	103	70 - 140	---	---	0.99	02/13/2015 07:30	02/14/2015 18:48	3185886
FEB	SS-PFDA-13C2	537	N/A	Field Equipment Blank		0.0991	100	% Recovery	100	70 - 130	---	---	0.99	02/13/2015 07:30	02/14/2015 18:48	3185886
FEB	SS-PFHxA-13C2	537	N/A	Field Equipment Blank		0.0479	50.0	% Recovery	97	70 - 130	---	---	0.99	02/13/2015 07:30	02/14/2015 18:48	3185886
FEB	Perfluorobutanesulfonic acid (PFBS)	537	0.09	Field Equipment Blank	<	0.09		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:48	3185886
FEB	Perfluoroheptanoic acid (PFHpA)	537	0.01	Field Equipment Blank	<	0.01		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:48	3185886
FEB	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	Field Equipment Blank	<	0.03		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:48	3185886
FEB	Perfluorononanoic acid (PFNA)	537	0.02	Field Equipment Blank	<	0.02		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:48	3185886
FEB	Perfluorooctane sulfonate (PFOS)	537	0.04	Field Equipment Blank	<	0.04		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:48	3185886
FEB	Perfluorooctanoic acid (PFOA)	537	0.02	Field Equipment Blank	<	0.02		ug/L	---	---	---	---	0.99	02/13/2015 07:30	02/14/2015 18:48	3185886
FS	IS-PFOA-13C2	537	N/A	Finished Water		2.39	2285.15	% Recovery	105	70 - 140	---	---	1.0	02/13/2015 07:30	02/14/2015 23:26	3185881
FS	IS-PFOS-13C4	537	N/A	Finished Water		2.59	2349.79	% Recovery	110	70 - 140	---	---	1.0	02/13/2015 07:30	02/14/2015 23:26	3185881
FS	SS-PFDA-13C2	537	N/A	Finished Water		0.0986	100	% Recovery	99	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 23:26	3185881
FS	SS-PFHxA-13C2	537	N/A	Finished Water		0.0515	50.0	% Recovery	103	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 23:26	3185881
FS	Perfluorobutanesulfonic acid (PFBS)	537	0.09	Finished Water	<	0.09		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 23:26	3185881
FS	Perfluoroheptanoic acid (PFHpA)	537	0.01	Finished Water		0.01		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 23:26	3185881
FS	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	Finished Water	<	0.03		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 23:26	3185881
FS	Perfluorononanoic acid (PFNA)	537	0.02	Finished Water	<	0.02		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 23:26	3185881
FS	Perfluorooctane sulfonate (PFOS)	537	0.04	Finished Water	<	0.04		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 23:26	3185881
FS	IS-PFOA-13C2	537	N/A	Well 3		2.43	2285.15	% Recovery	106	70 - 140	---	---	1.0	02/13/2015 07:30	02/14/2015 23:57	3185885
FS	IS-PFOS-13C4	537	N/A	Well 3		2.58	2349.79	% Recovery	110	70 - 140	---	---	1.0	02/13/2015 07:30	02/14/2015 23:57	3185885
FS	SS-PFDA-13C2	537	N/A	Well 3		0.0927	100	% Recovery	93	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 23:57	3185885
FS	SS-PFHxA-13C2	537	N/A	Well 3		0.0489	50.0	% Recovery	98	70 - 130	---	---	1.0	02/13/2015 07:30	02/14/2015 23:57	3185885
FS	Perfluorobutanesulfonic acid (PFBS)	537	0.09	Well 3	<	0.09		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 23:57	3185885
FS	Perfluoroheptanoic acid (PFHpA)	537	0.01	Well 3	<	0.01		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 23:57	3185885
FS	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	Well 3	<	0.03		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 23:57	3185885
FS	Perfluorononanoic acid (PFNA)	537	0.02	Well 3	<	0.02		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 23:57	3185885
FS	Perfluorooctane sulfonate (PFOS)	537	0.04	Well 3	<	0.04		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 23:57	3185885
FS	Perfluorooctanoic acid (PFOA)	537	0.02	Well 3		0.15		ug/L	---	---	---	---	1.0	02/13/2015 07:30	02/14/2015 23:57	3185885
FS	IS-PFOA-13C2	537	N/A	Well 10		2.41	2285.15	% Recovery	106	70 - 140	---	---	0.98	02/13/2015 07:30	02/15/2015 00:28	3185887
FS	IS-PFOS-13C4	537	N/A	Well 10		2.45	2349.79	% Recovery	104	70 - 140	---	---	0.98	02/13/2015 07:30	02/15/2015 00:28	3185887

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	SS-PFDA-13C2	537	N/A	Well 10		0.0934	100	% Recovery	95	70 - 130	---	---	0.98	02/13/2015 07:30	02/15/2015 00:28	3185887
FS	SS-PFHxA-13C2	537	N/A	Well 10		0.0508	50.0	% Recovery	104	70 - 130	---	---	0.98	02/13/2015 07:30	02/15/2015 00:28	3185887
FS	Perfluorobutanesulfonic acid (PFBS)	537	0.09	Well 10	<	0.09		ug/L	---	---	---	---	0.98	02/13/2015 07:30	02/15/2015 00:28	3185887
FS	Perfluoroheptanoic acid (PFHpA)	537	0.01	Well 10	<	0.01		ug/L	---	---	---	---	0.98	02/13/2015 07:30	02/15/2015 00:28	3185887
FS	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	Well 10	<	0.03		ug/L	---	---	---	---	0.98	02/13/2015 07:30	02/15/2015 00:28	3185887
FS	Perfluorononanoic acid (PFNA)	537	0.02	Well 10	<	0.02		ug/L	---	---	---	---	0.98	02/13/2015 07:30	02/15/2015 00:28	3185887
FS	Perfluorooctane sulfonate (PFOS)	537	0.04	Well 10	<	0.04		ug/L	---	---	---	---	0.98	02/13/2015 07:30	02/15/2015 00:28	3185887
FS	Perfluorooctanoic acid (PFOA)	537	0.02	Well 10		0.15		ug/L	---	---	---	---	0.98	02/13/2015 07:30	02/15/2015 00:28	3185887
FS	IS-PFOA-13C2	537	N/A	Well 6		2.32	2285.15	% Recovery	101	70 - 140	---	---	0.97	02/13/2015 07:30	02/15/2015 00:59	3185888
FS	IS-PFOS-13C4	537	N/A	Well 6		2.47	2349.79	% Recovery	105	70 - 140	---	---	0.97	02/13/2015 07:30	02/15/2015 00:59	3185888
FS	SS-PFDA-13C2	537	N/A	Well 6		0.0947	100	% Recovery	98	70 - 130	---	---	0.97	02/13/2015 07:30	02/15/2015 00:59	3185888
FS	SS-PFHxA-13C2	537	N/A	Well 6		0.0508	50.0	% Recovery	105	70 - 130	---	---	0.97	02/13/2015 07:30	02/15/2015 00:59	3185888
FS	Perfluorobutanesulfonic acid (PFBS)	537	0.09	Well 6	<	0.09		ug/L	---	---	---	---	0.97	02/13/2015 07:30	02/15/2015 00:59	3185888
FS	Perfluoroheptanoic acid (PFHpA)	537	0.01	Well 6	<	0.01		ug/L	---	---	---	---	0.97	02/13/2015 07:30	02/15/2015 00:59	3185888
FS	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	Well 6	<	0.03		ug/L	---	---	---	---	0.97	02/13/2015 07:30	02/15/2015 00:59	3185888
FS	Perfluorononanoic acid (PFNA)	537	0.02	Well 6	<	0.02		ug/L	---	---	---	---	0.97	02/13/2015 07:30	02/15/2015 00:59	3185888
FS	Perfluorooctane sulfonate (PFOS)	537	0.04	Well 6	<	0.04		ug/L	---	---	---	---	0.97	02/13/2015 07:30	02/15/2015 00:59	3185888
FS	IS-PFOA-13C2	537	N/A	Well 7		2.28	2285.15	% Recovery	100	70 - 140	---	---	0.97	02/13/2015 07:30	02/15/2015 01:30	3185882
FS	IS-PFOS-13C4	537	N/A	Well 7		2.47	2349.79	% Recovery	105	70 - 140	---	---	0.97	02/13/2015 07:30	02/15/2015 01:30	3185882
FS	SS-PFDA-13C2	537	N/A	Well 7		0.0940	100	% Recovery	97	70 - 130	---	---	0.97	02/13/2015 07:30	02/15/2015 01:30	3185882
FS	SS-PFHxA-13C2	537	N/A	Well 7		0.0505	50.0	% Recovery	104	70 - 130	---	---	0.97	02/13/2015 07:30	02/15/2015 01:30	3185882
FS	Perfluorobutanesulfonic acid (PFBS)	537	0.09	Well 7	<	0.09		ug/L	---	---	---	---	0.97	02/13/2015 07:30	02/15/2015 01:30	3185882
FS	Perfluoroheptanoic acid (PFHpA)	537	0.01	Well 7		0.01		ug/L	---	---	---	---	0.97	02/13/2015 07:30	02/15/2015 01:30	3185882
FS	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	Well 7	<	0.03		ug/L	---	---	---	---	0.97	02/13/2015 07:30	02/15/2015 01:30	3185882
FS	Perfluorononanoic acid (PFNA)	537	0.02	Well 7	<	0.02		ug/L	---	---	---	---	0.97	02/13/2015 07:30	02/15/2015 01:30	3185882
FS	Perfluorooctane sulfonate (PFOS)	537	0.04	Well 7	<	0.04		ug/L	---	---	---	---	0.97	02/13/2015 07:30	02/15/2015 01:30	3185882
LFSMH	IS-PFOA-13C2	537	N/A	Well 7		2.41	2285.15	% Recovery	105	70 - 140	---	---	1.0	02/13/2015 07:30	02/15/2015 02:01	3185883
LFSMH	IS-PFOS-13C4	537	N/A	Well 7		2.54	2349.79	% Recovery	108	70 - 140	---	---	1.0	02/13/2015 07:30	02/15/2015 02:01	3185883
LFSMH	SS-PFDA-13C2	537	N/A	Well 7		0.1002	100	% Recovery	100	70 - 130	---	---	1.0	02/13/2015 07:30	02/15/2015 02:01	3185883
LFSMH	SS-PFHxA-13C2	537	N/A	Well 7		0.0516	50.0	% Recovery	103	70 - 130	---	---	1.0	02/13/2015 07:30	02/15/2015 02:01	3185883
LFSMH	Perfluorobutanesulfonic acid (PFBS)	537	0.09	Well 7		1.1036	1125	% Recovery	98	70 - 130	---	---	1.0	02/13/2015 07:30	02/15/2015 02:01	3185883
LFSMH	Perfluoroheptanoic acid (PFHpA)	537	0.01	Well 7		0.1398	139.1396	% Recovery	101	70 - 130	---	---	1.0	02/13/2015 07:30	02/15/2015 02:01	3185883
LFSMH	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	Well 7		0.3669	375	% Recovery	98	70 - 130	---	---	1.0	02/13/2015 07:30	02/15/2015 02:01	3185883
LFSMH	Perfluorononanoic acid (PFNA)	537	0.02	Well 7		0.2431	250	% Recovery	97	70 - 130	---	---	1.0	02/13/2015 07:30	02/15/2015 02:01	3185883
LFSMH	Perfluorooctane sulfonate (PFOS)	537	0.04	Well 7		0.4663	500	% Recovery	93	70 - 130	---	---	1.0	02/13/2015 07:30	02/15/2015 02:01	3185883
LFSMDH	IS-PFOA-13C2	537	N/A	Well 7		2.32	2285.15	% Recovery	102	70 - 140	---	---	1.0	02/13/2015 07:30	02/15/2015 02:32	3185884
LFSMDH	IS-PFOS-13C4	537	N/A	Well 7		2.37	2349.79	% Recovery	101	70 - 140	---	---	1.0	02/13/2015 07:30	02/15/2015 02:32	3185884
LFSMDH	SS-PFDA-13C2	537	N/A	Well 7		0.1008	100	% Recovery	101	70 - 130	---	---	1.0	02/13/2015 07:30	02/15/2015 02:32	3185884
LFSMDH	SS-PFHxA-13C2	537	N/A	Well 7		0.0510	50.0	% Recovery	102	70 - 130	---	---	1.0	02/13/2015 07:30	02/15/2015 02:32	3185884
LFSMDH	Perfluorobutanesulfonic acid (PFBS)	537	0.09	Well 7		1.1341	1125	% Recovery	101	70 - 130	2.7	---	1.0	02/13/2015 07:30	02/15/2015 02:32	3185884
LFSMDH	Perfluoroheptanoic acid (PFHpA)	537	0.01	Well 7		0.1401	139.1396	% Recovery	101	70 - 130	0.2	---	1.0	02/13/2015 07:30	02/15/2015 02:32	3185884

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
LFSMDH	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	Well 7		0.3799	375	% Recovery	101	70 - 130	3.5	---	1.0	02/13/2015 07:30	02/15/2015 02:32	3185884
LFSMDH	Perfluorononanoic acid (PFNA)	537	0.02	Well 7		0.2445	250	% Recovery	98	70 - 130	0.5	---	1.0	02/13/2015 07:30	02/15/2015 02:32	3185884
LFSMDH	Perfluorooctane sulfonate (PFOS)	537	0.04	Well 7		0.4869	500	% Recovery	97	70 - 130	4.3	---	1.0	02/13/2015 07:30	02/15/2015 02:32	3185884
CCM	IS-PFOA-13C2	537	N/A	---		2.42	2418.32	% Recovery	100	70 - 140	---	---	1.0	02/04/2015 14:00	02/15/2015 03:03	3185641
CCM	IS-PFOS-13C4	537	N/A	---		2.48	2483.74	% Recovery	100	70 - 140	---	---	1.0	02/04/2015 14:00	02/15/2015 03:03	3185641
CCM	SS-PFDA-13C2	537	N/A	---		0.0994	100	% Recovery	99	70 - 130	---	---	1.0	02/04/2015 14:00	02/15/2015 03:03	3185641
CCM	SS-PFHxA-13C2	537	N/A	---		0.0493	50.0	% Recovery	99	70 - 130	---	---	1.0	02/04/2015 14:00	02/15/2015 03:03	3185641
CCM	Perfluorobutanesulfonic acid (PFBS)	537	0.09	---		0.6680	675	% Recovery	99	70 - 130	---	---	1.0	02/04/2015 14:00	02/15/2015 03:03	3185641
CCM	Perfluoroheptanoic acid (PFHpA)	537	0.01	---		0.0780	75.0	% Recovery	104	70 - 130	---	---	1.0	02/04/2015 14:00	02/15/2015 03:03	3185641
CCM	Perfluorohexanesulfonic acid (PFHxS)	537	0.03	---		0.2258	225	% Recovery	100	70 - 130	---	---	1.0	02/04/2015 14:00	02/15/2015 03:03	3185641
CCM	Perfluorononanoic acid (PFNA)	537	0.02	---		0.1534	150	% Recovery	102	70 - 130	---	---	1.0	02/04/2015 14:00	02/15/2015 03:03	3185641
CCM	Perfluorooctane sulfonate (PFOS)	537	0.04	---		0.2988	300	% Recovery	100	70 - 130	---	---	1.0	02/04/2015 14:00	02/15/2015 03:03	3185641
CCM	Perfluorooctanoic acid (PFOA)	537	0.02	---		0.1518	150	% Recovery	101	70 - 130	---	---	1.0	02/04/2015 14:00	02/15/2015 03:03	3185641

eurofins | Eaton Analytical

Eurofins Eaton Analytical
Run Log

Run ID: **199756** Method: **537**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	3187932		OS	CY	02/16/2015 15:49	021615M537a.mdb
CCL	3187932		OS	CY	02/16/2015 15:49	021615M537a.mdb
FS	3185881	Finished Water	DW	CY	02/16/2015 20:27	021615M537a.mdb
FS	3185888	Well 6	GW	CY	02/16/2015 20:58	021615M537a.mdb
FS	3185882	Well 7	GW	CY	02/16/2015 21:29	021615M537a.mdb
LFSMH	3185883	Well 7	GW	CY	02/16/2015 21:59	021615M537a.mdb
LFSMDH	3185884	Well 7	GW	CY	02/16/2015 22:30	021615M537a.mdb
CCH	3187933		OS	CY	02/16/2015 23:01	021615M537a.mdb
CCH	3187933		OS	CY	02/16/2015 23:01	021615M537a.mdb

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	Perfluorooctanoic acid (PFOA)	537	0.02	---		0.0210	20.0	% Recovery	105	50 - 150	---	---	1.0	02/13/2015 13:00	02/16/2015 15:49	3187932
CCL	IS-PFOA-13C2	537	N/A	---		2966.77	2966.77	% Recovery	100	70 - 140	---	---	1.0	02/13/2015 13:00	02/16/2015 15:49	3187932
CCL	IS-PFOS-13C4	537	N/A	---		2905.22	2905.22	% Recovery	100	70 - 140	---	---	1.0	02/13/2015 13:00	02/16/2015 15:49	3187932
CCL	SS-PFDA-13C2	537	N/A	---		106.6190	100	% Recovery	107	70 - 130	---	---	1.0	02/13/2015 13:00	02/16/2015 15:49	3187932
CCL	SS-PFHxA-13C2	537	N/A	---		50.9595	50.0	% Recovery	102	70 - 130	---	---	1.0	02/13/2015 13:00	02/16/2015 15:49	3187932
FS	Perfluorooctanoic acid (PFOA)	537	0.02	Finished Water		0.48		ug/L	---	---	---	---	10	02/13/2015 07:30	02/16/2015 20:27	3185881
FS	Perfluorooctanoic acid (PFOA)	537	0.02	Well 6		0.39		ug/L	---	---	---	---	9.7	02/13/2015 07:30	02/16/2015 20:58	3185888
FS	Perfluorooctanoic acid (PFOA)	537	0.02	Well 7		0.49		ug/L	---	---	---	---	9.7	02/13/2015 07:30	02/16/2015 21:29	3185882
LFSMH	Perfluorooctanoic acid (PFOA)	537	0.02	Well 7		0.7837	742.26	% Recovery	**12**	70 - 130	---	---	10	02/13/2015 07:30	02/16/2015 21:59	3185883
LFSMDH	Perfluorooctanoic acid (PFOA)	537	0.02	Well 7		0.7177	742.26	% Recovery	**9**	70 - 130	8.8	---	10	02/13/2015 07:30	02/16/2015 22:30	3185884
CCH	Perfluorooctanoic acid (PFOA)	537	0.02	---		0.2579	250	% Recovery	103	70 - 130	---	---	1.0	02/13/2015 13:00	02/16/2015 23:01	3187933
CCH	IS-PFOA-13C2	537	N/A	---		2785.53	2785.53	% Recovery	100	70 - 140	---	---	1.0	02/13/2015 13:00	02/16/2015 23:01	3187933
CCH	IS-PFOS-13C4	537	N/A	---		2800.05	2800.05	% Recovery	100	70 - 140	---	---	1.0	02/13/2015 13:00	02/16/2015 23:01	3187933
CCH	SS-PFDA-13C2	537	N/A	---		104.1800	100	% Recovery	104	70 - 130	---	---	1.0	02/13/2015 13:00	02/16/2015 23:01	3187933
CCH	SS-PFHxA-13C2	537	N/A	---		52.9887	50.0	% Recovery	106	70 - 130	---	---	1.0	02/13/2015 13:00	02/16/2015 23:01	3187933

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FEB	Field Equipment Blank		
FS	Field Sample		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
LFSMDH	LFSM Duplicate High		
LFSMH	LFSM High		
LRB	Laboratory Reagent Blank		
LTB	Laboratory Trip Blank		

SP-537 CALIBRATION RECORD

Prep Batch: 47637

Sample Type	Comments
All	96% Methanol in Reagent Water Prep Log #: OP-SOC 91-21C
All	Added 10 uL Internal Standard Substock @ 1.25* ug/mL in 96% Methanol in RW Prep Log #: OP-SOC Exp. Date: 03/13/2015
All	Added 10 uL Surrogate Standard Substock @ 1.25* ug/mL in 96% Methanol in RW Prep Log #: OP-SOC 92-31B Exp. Date: 04/03/2015
ICL/ICS/CCC	537 Mixed Analyte Substock @ 0.25* ug/mL in 96% Methanol in RW Prep Log #: OP-SOC 92-31C Exp. Date: 07/21/2015
	Calibration made at the following concentrations in 1mL 96% Methanol in Reagent Water
10* ng/L	Added 10 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
25* ng/L	Added 25 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
50* ng/L	Added 50 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
75* ng/L	Added 75 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
100* ng/L	Added 100 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
125* ng/L	Added 125 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
150* ng/L	Added 150 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
UQCM @ 75* ng/L	Mixed QCS Substock @ 0.25* ug/mL in 96% Methanol in RW Prep Log#: OP-SOC 91-74C Exp. Date: 03/13/2015 Prepared at 75* ng/L as noted for the calibration standards
All	Vortex after bringing to volume with 96% Methanol in RW
	*Concentrations are in terms of PFHpA, SS-PFHxA-$^{13}C_2$, or IS-PFOA-$^{13}C_2$

Technician: ALP Date: 03/13/2015

SP-537 EXTRACTION RECORD

Prep Batch: 47636

Sample Type	Comments	Standard 1st Use
ALL	See Logbook printout for procedure start time: See attached logbook printout for samples in batch.	
ALL	Surrogate Standard Substock @ 1.25 ug/mL in terms of PFHxA- $^{13}C_2$ in 96% MeOH in RW Prep Log #: OP-SOC 92-31B Exp. Date: 04/03/2015 10 uL added: Conc: 50 ng/L	☐
LFB, LFSM/LFSMD FBL FBH LFSMH/LFSMDH	537 Mixed Analyte Substock @ 0.25 ug/mL in terms of PFHpA in 96% MeOH in RW Prep Log #: OP-SOC 92-31C Exp. Date: 07/21/2015 10 uL added: Conc: 10 ng/L 125 uL added: Conc: 125 ng/L 125 uL added: Conc: 125 ng/L	☐
ALL	Extracted according to 537 SOP SPE Cartridge MFG: Phenomenex Type: SDB-L Lot #: 5214-050 Methanol MFG: Fisher Lot #: 143090 Grade: P&T 96% Methanol in Reagent Water Prep Log #: OP-SOC 91-21C	
ALL	Other reagents: QEC Pre-Preserved Bottles: Tris HCl Lot # 807258 Tris Lot #: 684994 Milli-Q Reagent Water: Date of collection: 02/13/2015	
ALL	Internal Standard Substock @ 1.25 ug/mL in terms of PFOA- $^{13}C_2$ in 96% MeOH in RW Prep Log #: OP-SOC 91-74C Exp. Date: 03/13/2015 10uL added: Conc: 50 ng/L	☐
Observations		

Extraction Technician: AVP Date: 02/13/2015

SP - ORGANIC EXTRACTION WEIGHT + PRESERVATIVE CHECK RECORD

Method: 537 Batch #:47636 Method Required Volume (mL) : 250

Balance ID: B7

Sample ID	Sample pH(1) Out of range? Yes(Y)/No(N)/NA	Free Chlorine Residual (1) Present(P) / Absent(A) / NA	Sample & Cont Wgt (g) (2)	Cont Wgt (g)	Sample Vol. extracted (mL) (3)	Correction Factor (4)
3185722	NA	NA	273	36	237	1.05
3185723	NA	NA	298	36	262	0.95
3185724	NA	NA	301	36	265	0.94
3185725	NA	NA	293	35	258	0.97
3185726	NA	NA	283	36	247	1.01
3185727	NA	NA	291	37	254	0.98
3185728	NA	NA	272	36	236	1.06
3185729	NA	NA	305	36	269	0.93
3185880	NA	NA	289	36	253	0.99
3185881	NA	NA	286	35	251	1.00
3185882	NA	NA	293	36	257	0.97
3185883	NA	NA	300	36	264	0.95
3185884	NA	NA	288	35	253	0.99
3185885	NA	NA	287	36	251	1.00
3185886	NA	NA	289	36	253	0.99
3185887	NA	NA	291	37	254	0.98
3185888	NA	NA	293	36	257	0.97
					0	#DIV/0!
LRB	NA	NA	305	36	269	0.93
FBL	NA	NA	298	36	262	0.95
FBH	NA	NA	299	36	263	0.95
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!

(1) Refer to Method Extraction Record for out of range criteria. For all samples with pH outside of acceptable and/or Residual chlorine present, action taken must be documented on Extraction Record.
(2) Sample weight may be determined without container if poured directly in extraction vessel.
(3) Sample volume (mL) = Sample & container weight (g) - container weight (g)
(4) Correction factor = method required volume (mL)/sample volume extracted (mL)
Rounding of the correction factor performed by the Excel Application.

Comments:

Technician: ALP Date: 13-Feb-15

SP - ORGANIC EXTRACTION WEIGHT + PRESERVATIVE CHECK RECORD

Method: 537 Batch #: 47636 Method Required Volume (mL) : 250

Balance ID: B7

Sample ID	Sample pH(1) out of range? Yes(Y)/No(N)/ NA	Free Chlorine Residual (1): Present(P) / Absent(A) / NA	Sample & Cont Wgt (g) (2)	Cont Wgt (g)	Sample Vol extracted (mL) (3)	Correction Factor (4)
3185722	NA	NA	273	36	0	#DIV/0!
5723	NA	NA	298	36	0	#DIV/0!
5724	NA	NA	301	36	0	#DIV/0!
MS 5725	NA	NA	293	35	0	#DIV/0!
MSD 5726	NA	NA	283	36	0	#DIV/0!
5727	NA	NA	291	37	0	#DIV/0!
5728	NA	NA	272	36	0	#DIV/0!
5729	NA	NA	305	36	0	#DIV/0!
5880	NA	NA	289	36	0	#DIV/0!
5881	NA	NA	286	35	0	#DIV/0!
5882	NA	NA	293	36	0	#DIV/0!
5883	NA	NA	300	36	0	#DIV/0!
5884	NA	NA	288	35	0	#DIV/0!
5885	NA	NA	287	36	0	#DIV/0!
5886	NA	NA	289	36	0	#DIV/0!
5887	NA	NA	291	37	0	#DIV/0!
5888	NA	NA	293	36	0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
LRB	NA	NA	305	36	0	#DIV/0!
FBL	NA	NA	298	36	0	#DIV/0!
FBH	NA	NA	299	36	0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!

(1) Refer to Method Extraction Record for out of range criteria. For all samples with pH outside of acceptable and/or Residual chlorine present, action taken must be documented on Extraction Record.
(2) Sample weight may be determined without container if poured directly in extraction vessel.
(3) Sample volume (mL) = Sample & container weight (g) - container weight (g)
(4) Correction factor = method required volume (mL)/sample volume extracted (mL)
Rounding of the correction factor performed by the Excel Application.

Comments:

Technician: Ap Date: 02/13/2015

LIMSRequest Main Exit

RPD Calculation (Area/Response)

Separate by Colon

Enter two sample IDs and RPD limit as in: sample1, sample2, RPD limit

Arguments
3187144, 3187149, 20

submit

RPD Calculation for Method 537, Maximum RPD = 20.0.
Sample 1: 3187144 (RID 199717), Sample 2: 3187149 (RID 199717).

Parameter	Sample 1 Area	Sample 2 Area	RPD	exceedsLimit
IS-PFOA-13C2	2154.09	2302.71	6.7	
IS-PFOS-13C4	2256.22	2449.96	8.2	
SS-PFDA-13C2	1360.39	1576.46	14.7	
SS-PFHxA-13C2	2024.18	2292.55	12.4	
Perfluorobutanesulfonic acid (PFBS)	2720.09	36340.80	172.1	*
Perfluoroheptanoic acid (PFHpA)	226.42	2795.05	170.0	*
Perfluorohexanesulfonic acid (PFHxS)	998.14	13422.90	172.3	*
Perfluorononanoic acid (PFNA)	327.30	4022.54	169.9	*
Perfluorooctane sulfonate (PFOS)	886.01	11668.90	171.8	*
Perfluorooctanoic acid (PFOA)	627.09	8320.80	172.0	*

(return status = 0)

OK. RPD ≤ 20%.
CM
02/16/2015

Quantify Compound Summary Report **MassLynx 4.1 SCN810**
UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:59 Eastern Standard Time

Method: C:\CY\537\021415M537a.pro\MethDB\021415M537a.mdb 05 Feb 2015 07:55:25
Calibration: 16 Feb 2015 13:32:16

Compound name: IS-13C2-PFOA
Response Factor: 44.6729
RRF SD: 1.15427, Relative SD: 2.58383
Response type: External Std, Area
Curve type: RF

	Name	ID	Std. Conc	RT	Area	IS Area	IS RT	%Rec
1	I-10-A2	3187144	50.000	14.92	2154.09			96.4
2	I-25-A2	3187145	50.000	14.92	2279.40			102.0
3	I-50-A2	3187146	50.000	14.94	2163.18			96.8
4	I-75-A2	3187147	50.000	14.92	2257.10			101.1
5	I-100-A2	3187148	50.000	14.92	2264.10			101.4
6	I-125-A2	3187149	50.000	14.92	2302.71			103.1
7	I-150-A2	3187150	50.000	14.92	2214.94			99.2

LIMSRequest Main Exit

RPD Calculation (Area/Response)

Separate by Colon

Enter two sample IDs and RPD limit as in:
sample1, sample2, RPD limit

Arguments
3187146, 3187149, 20

submit

RPD Calculation for Method 537, Maximum RPD = 20.0.
Sample 1: 3187146 (RID 199717), Sample 2: 3187149 (RID 199717).

Parameter	Sample 1 Area	Sample 2 Area	RPD	exceedsLimit
IS-PFOA-13C2	2163.18	2302.71	6.2	
IS-PFOS-13C4	2233.96	2449.96	9.2	
SS-PFDA-13C2	1383.63	1576.46	13.0	
SS-PFHxA-13C2	2074.89	2292.55	10.0	
Perfluorobutanesulfonic acid (PFBS)	13099.90	36340.80	94.0	*
Perfluoroheptanoic acid (PFHpA)	1030.18	2795.05	92.3	*
Perfluorohexanesulfonic acid (PFHxS)	4851.26	13422.90	93.8	*
Perfluorononanoic acid (PFNA)	1445.86	4022.54	94.2	*
Perfluorooctane sulfonate (PFOS)	4233.38	11668.90	93.5	*
Perfluorooctanoic acid (PFOA)	2998.98	8320.80	94.0	*

(return status = 0)

OK. CM 02/16/2015

Quantify Compound Summary Report **MassLynx 4.1 SCN810**
UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:59 Eastern Standard Time

Compound name: IS-13C4-PFOS
Response Factor: 23.3248
RRF SD: 0.796428, Relative SD: 3.41451
Response type: External Std, Area
Curve type: RF

	Name	ID	Std. Conc	RT	Area	IS Area	IS RT	%Rec
1	I-10-A2	3187144	100.000	17.15	2256.22			96.7
2	I-25-A2	3187145	100.000	17.14	2400.11			102.9
3	I-50-A2	3187146	100.000	17.14	2233.96			95.8
4	I-75-A2	3187147	100.000	17.14	2351.91			100.8
5	I-100-A2	3187148	100.000	17.13	2358.47			101.1
6	I-125-A2	3187149	100.000	17.13	2449.96			105.0
7	I-150-A2	3187150	100.000	17.15	2276.73			97.6

Quantify Sample Report **MassLynx 4.1 SCN810**
UCMR3 PFAAs by ESI/LC/MS/MS

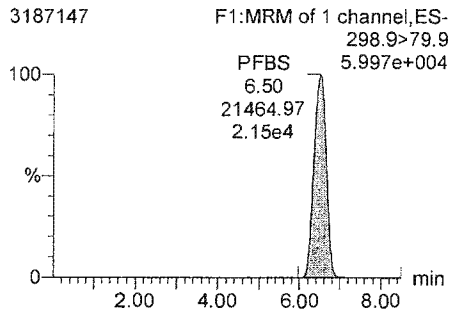
Dataset: C:\CY\537\021415M537a.pro\Asymmetry.qld

Last Altered: Monday, February 16, 2015 13:37:33 Eastern Standard Time
Printed: Monday, February 16, 2015 13:37:48 Eastern Standard Time

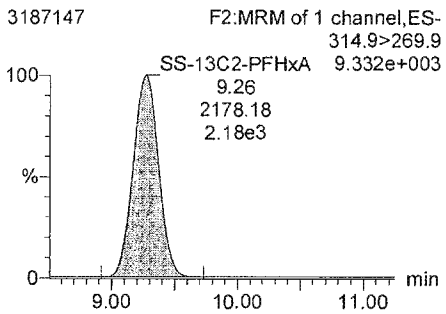
Method: C:\CY\537\021415M537a.pro\MethDB\asymmetry-test-v2.mdb 04 Feb 2015 08:51:39
Calibration: 16 Feb 2015 13:37:33

Name: I-75-A2, Date: 14-Feb-2015, Time: 11:35:53, ID: 3187147, Description:

PFBS



SS-13C2-PFHxA



# Name	ID	RT	Std. Conc	(b/a)	Asymmetry Flagged
1 PFBS	3187147	6.50	675.000	0.89	NO
2 SS-13C2-PFHxA	3187147	9.26	50.000	1.05	NO

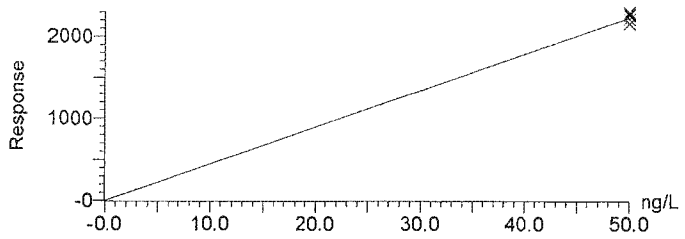
OK
$0.8 \leq As \leq 1.5$
CM
02/16/2015

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

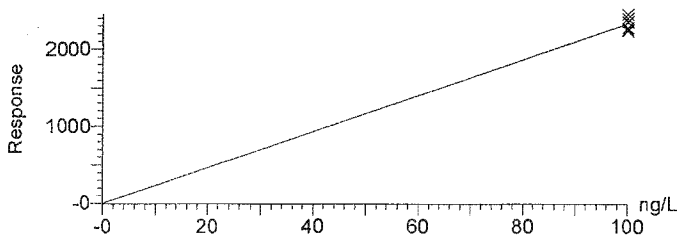
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Method: C:\CY\537\021415M537a.pro\MethDB\021415M537a.mdb 05 Feb 2015 07:55:25
Calibration: 16 Feb 2015 13:32:16

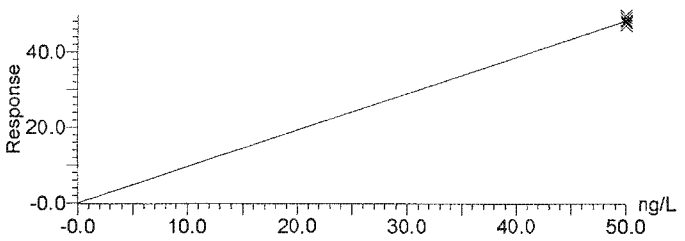
Compound name: IS-13C2-PFOA
Response Factor: 44.6729
RRF SD: 1.15427, % Relative SD: 2.58383
Response type: External Std, Area
Curve type: RF



Compound name: IS-13C4-PFOS
Response Factor: 23.3248
RRF SD: 0.796428, % Relative SD: 3.41451
Response type: External Std, Area
Curve type: RF



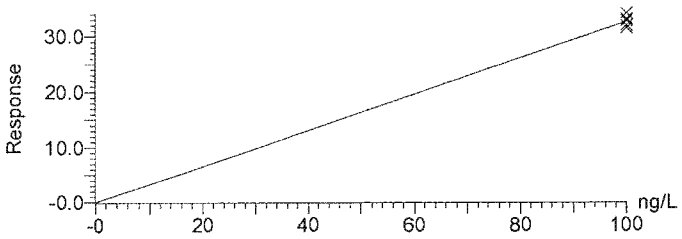
Compound name: SS-13C2-PFHxA
Response Factor: 0.966089
RRF SD: 0.0181623, % Relative SD: 1.87999
Response type: Internal Std (Ref 1), Area * (IS Conc. / IS Area)
Curve type: RF



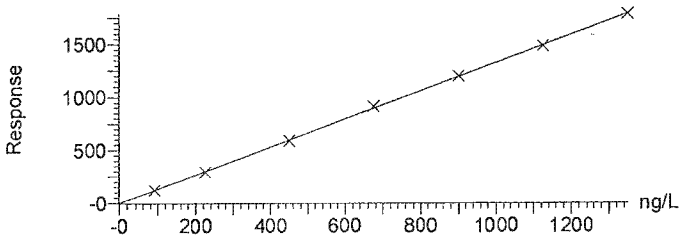
Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

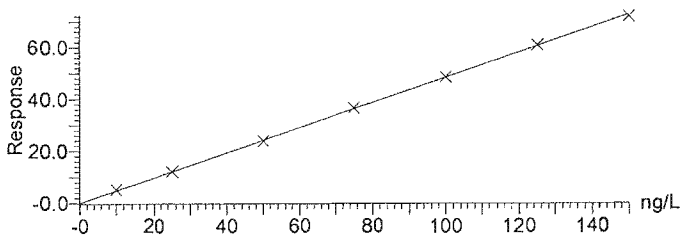
Compound name: SS-13C2-PFDA
Response Factor: 0.326884
RRF SD: 0.0090964, % Relative SD: 2.78276
Response type: Internal Std (Ref 1), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PFBS
Coefficient of Determination: R^2 = 0.999765
Calibration curve: 1.32364 * x
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



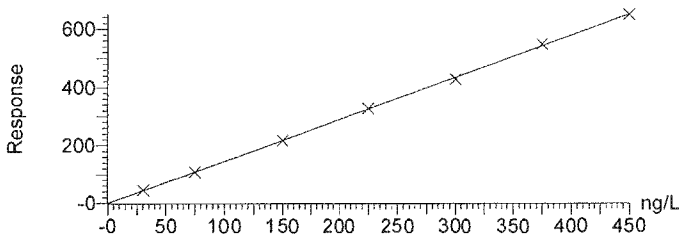
Compound name: PFHpA
Coefficient of Determination: R^2 = 0.999605
Calibration curve: 0.483306 * x
Response type: Internal Std (Ref 1), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



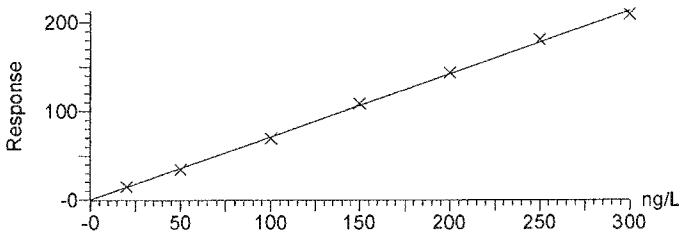
Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

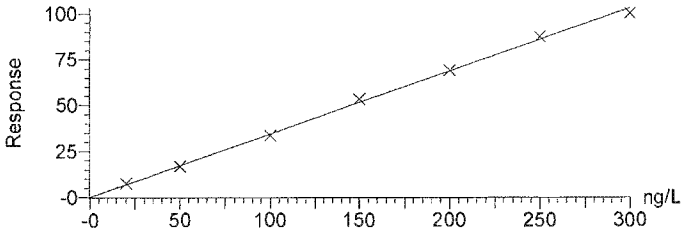
Compound name: PFHxS
Coefficient of Determination: R^2 = 0.999851
Calibration curve: 1.44612 * x
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Compound name: PFOA
Coefficient of Determination: R^2 = 0.999285
Calibration curve: 0.709293 * x
Response type: Internal Std (Ref 1), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



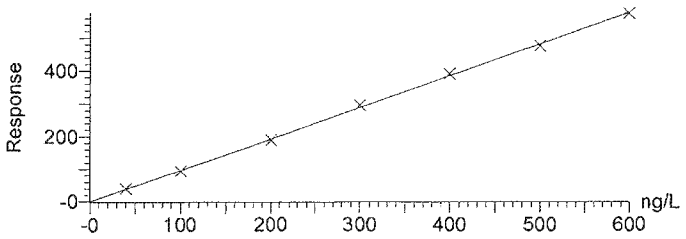
Compound name: PFNA
Coefficient of Determination: R^2 = 0.998491
Calibration curve: 0.343116 * x
Response type: Internal Std (Ref 1), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Compound name: PFOS
Coefficient of Determination: R^2 = 0.999639
Calibration curve: 0.962096 * x
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Quantify Sample Report **MassLynx 4.1 SCN810**
UCMR3 PFAAs by ESI/LC/MS/MS

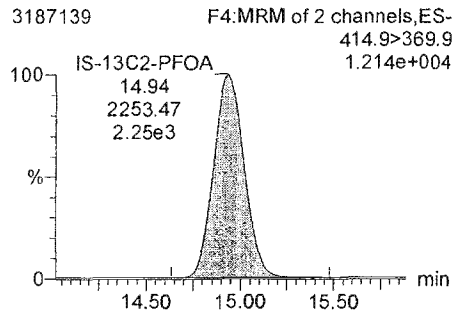
Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

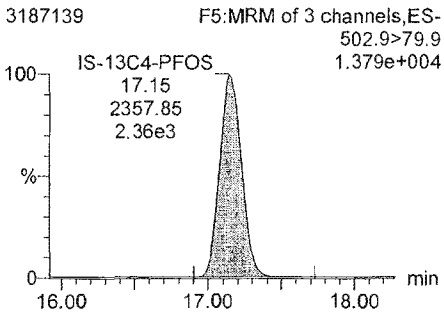
Method: C:\CY\537\021415M537a.pro\MethDB\021415M537a.mdb 05 Feb 2015 07:55:25
Calibration: 16 Feb 2015 13:32:16

Name: LIB-A2, Date: 14-Feb-2015, Time: 09:32:11, ID: 3187139, Description:

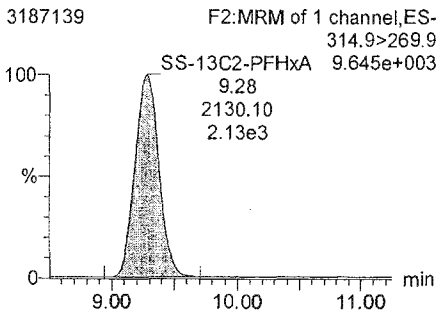
IS-13C2-PFOA



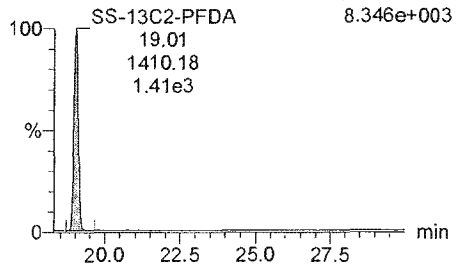
IS-13C4-PFOS



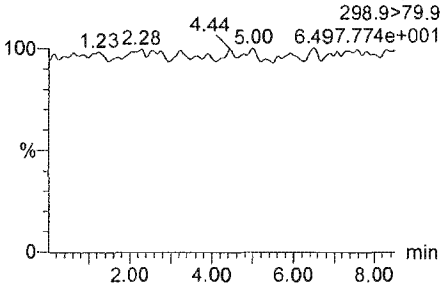
SS-13C2-PFHxA



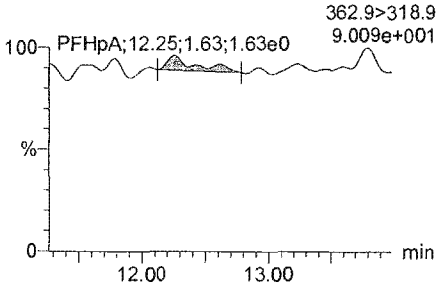
SS-13C2-PFDA



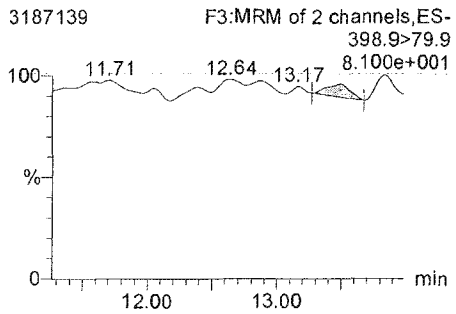
PFBS



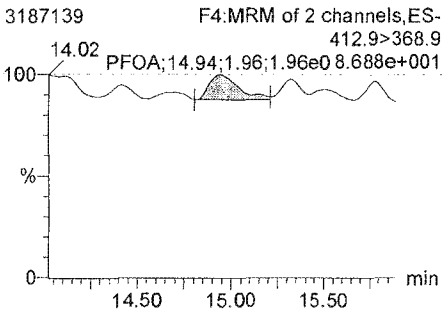
PFHpA



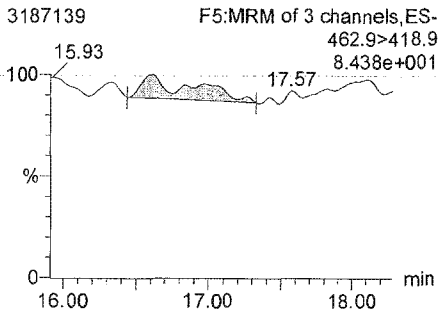
PFHxS



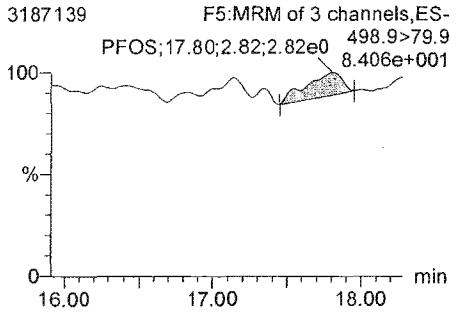
PFOA



PFNA



PFOS



Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: LIB-A2, Date: 14-Feb-2015, Time: 09:32:11, ID: 3187139, Description:

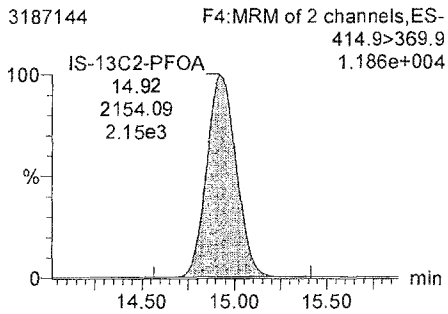
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.94	2253.47		1.000	50.443775	100.9	bb			
2	IS-13C4-PFOS	17.15	2357.85		1.000	101.087659	101.1	bb			
3	SS-13C2-PFHxA	9.28	2130.10	1	1.000	48.921649	97.8	bb			
4	SS-13C2-PFDA	19.01	1410.18	1	1.000	95.718852	95.7	bb			
5	PFBS		0	2	1.000	0					
6	PFHpA	12.25	1.63	1	1.000	0.074831		bb			
7	PFHxS	13.49	1.11	2	1.000	0.032612		bb			
8	PFOA	14.94	1.96	1	1.000	0.061406		bd			
9	PFNA	16.61	4.00	1	1.000	0.258600		bb			
10	PFOS	17.80	2.82	2	1.000	0.124268		bb			

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

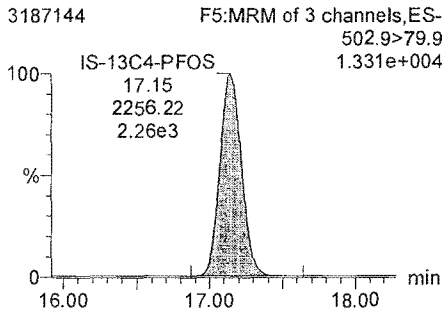
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-10-A2, Date: 14-Feb-2015, Time: 10:03:07, ID: 3187144, Description:

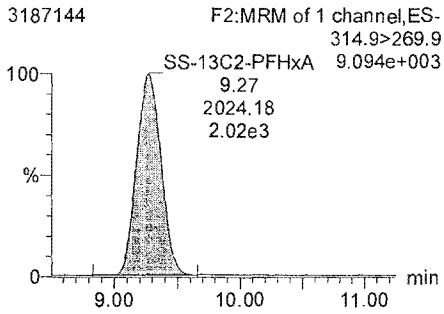
IS-13C2-PFOA



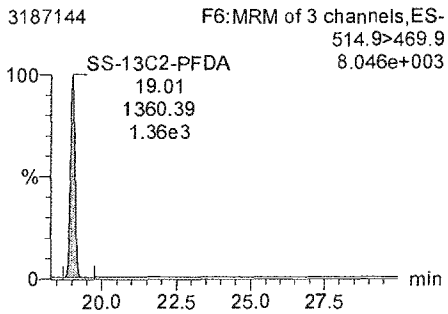
IS-13C4-PFOS



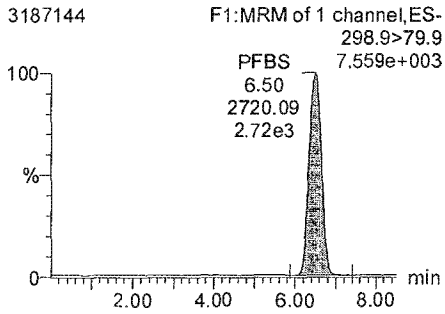
SS-13C2-PFHxA



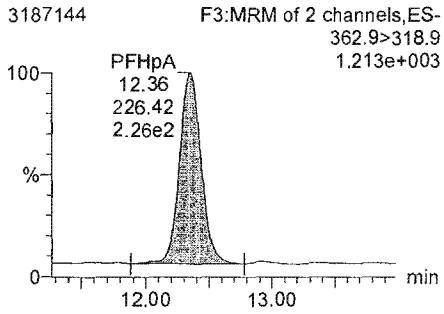
SS-13C2-PFDA



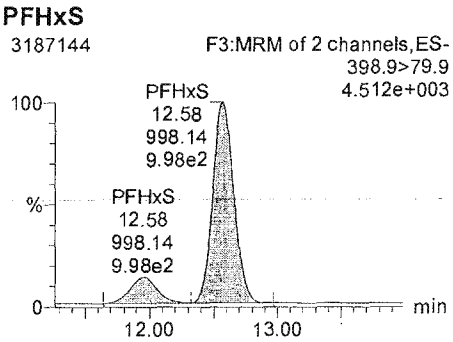
PFBS



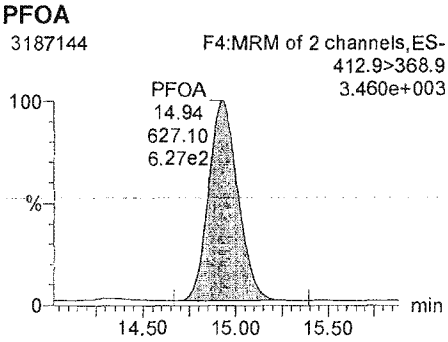
PFHpA



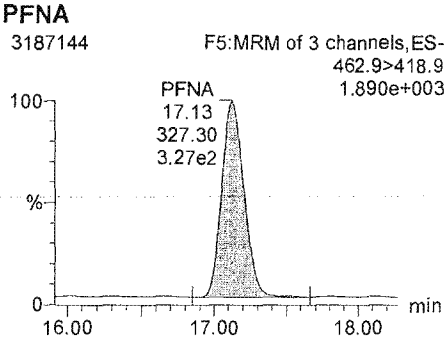
PFHxS



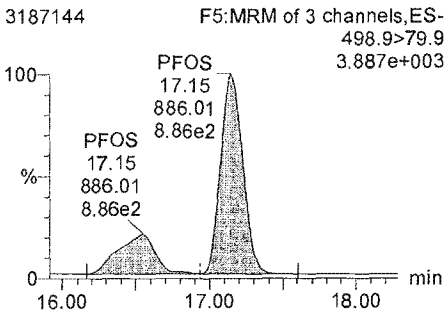
PFOA



PFNA



PFOS



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Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-10-A2, Date: 14-Feb-2015, Time: 10:03:07, ID: 3187144, Description:

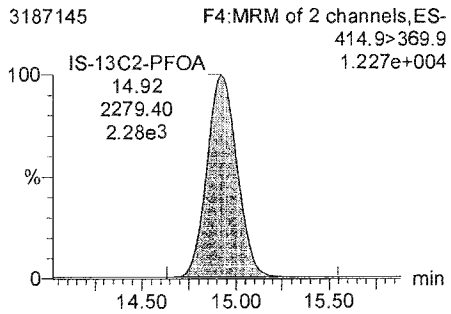
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2154.09		1.000	48.219229	96.4	bb			
2	IS-13C4-PFOS	17.15	2256.22		1.000	96.730408	96.7	bb			
3	SS-13C2-PFHxA	9.27	2024.18	1	1.000	48.633607	97.3	bb			
4	SS-13C2-PFDA	19.01	1360.39	1	1.000	96.599509	96.6	bb			
5	PFBS	6.50	2720.09	2	1.000	91.081903	101.2	bb			
6	PFHpA	12.36	226.42	1	1.000	10.874265	108.7	bd			
7	PFHxS	12.58	998.14	2	1.000	30.591948	102.0	MM	SP-CM	16-Feb-15	13:27:32
8	PFOA	14.94	627.10	1	1.000	20.521668	102.6	bb			
9	PFNA	17.13	327.30	1	1.000	22.141750	110.7	bd			
10	PFOS	17.15	886.01	2	1.000	40.816851	102.0	MM	SP-CM	16-Feb-15	13:31:08

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

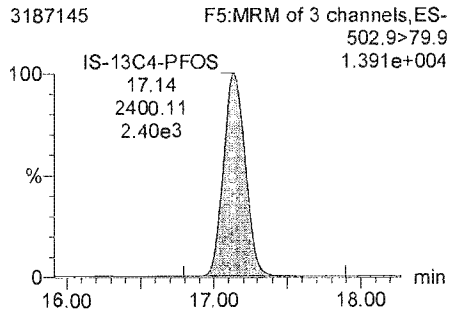
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-25-A2, Date: 14-Feb-2015, Time: 10:34:02, ID: 3187145, Description:

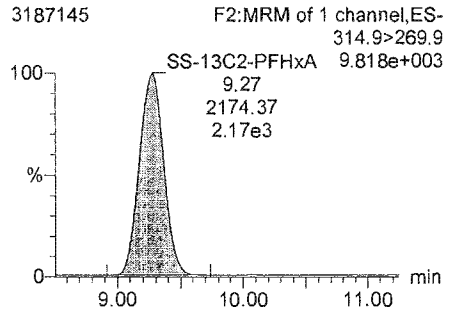
IS-13C2-PFOA



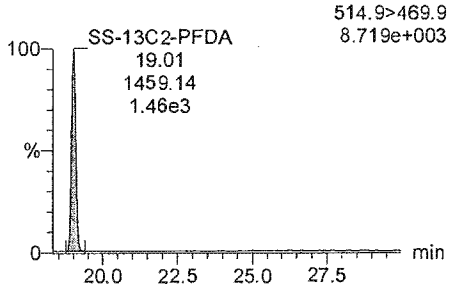
IS-13C4-PFOS



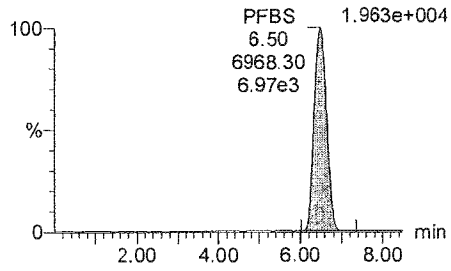
SS-13C2-PFHxA



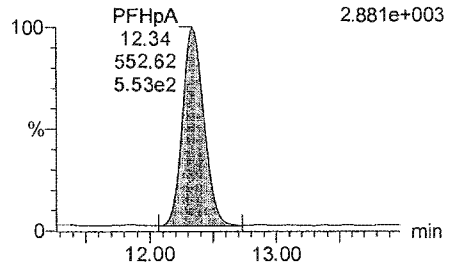
SS-13C2-PFDA



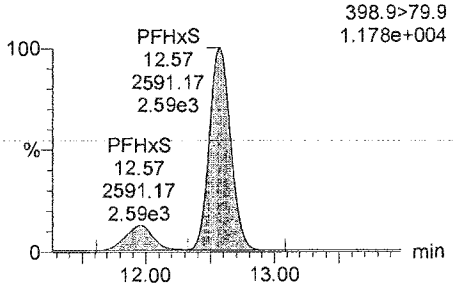
PFBS



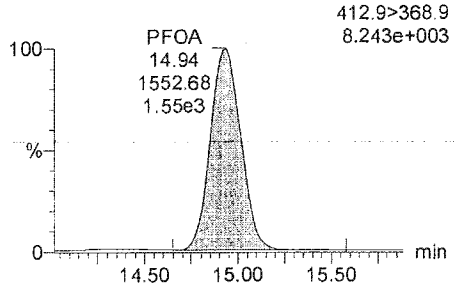
PFHpA



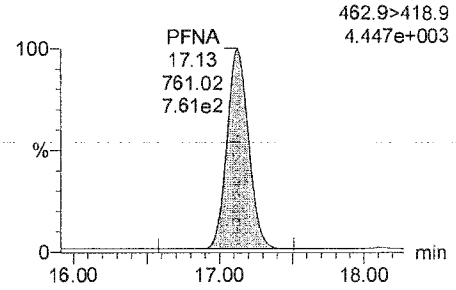
PFHxS



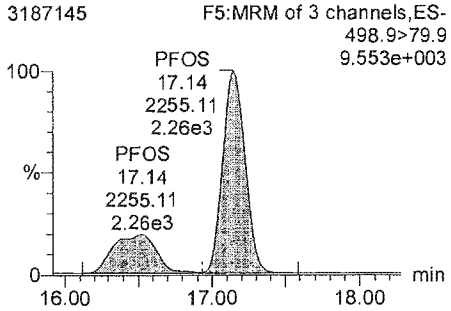
PFOA



PFNA



PFOS



Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-25-A2, Date: 14-Feb-2015, Time: 10:34:02, ID: 3187145, Description:

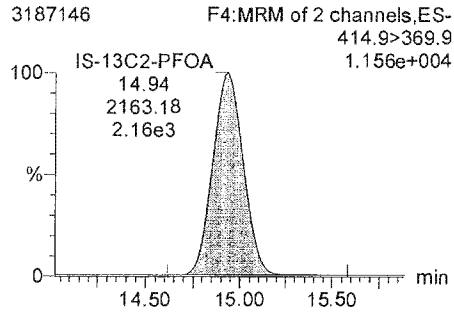
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2279.40		1.000	51.024148	102.0	bb			
2	IS-13C4-PFOS	17.14	2400.11		1.000	102.899336	102.9	bb			
3	SS-13C2-PFHxA	9.27	2174.37	1	1.000	49.370253	98.7	bb			
4	SS-13C2-PFDA	19.01	1459.14	1	1.000	97.915700	97.9	bb			
5	PFBS	6.50	6968.30	2	1.000	219.343948	97.5	bb			
6	PFHpA	12.34	552.62	1	1.000	25.081683	100.3	dd			
7	PFHxS	12.57	2591.17	2	1.000	74.655313	99.5	MM	SP-CM	16-Feb-15	13:27:43
8	PFOA	14.94	1552.68	1	1.000	48.018283	96.0	db			
9	PFNA	17.13	761.02	1	1.000	48.652566	97.3	bb			
10	PFOS	17.14	2255.11	2	1.000	97.660610	97.7	MM	SP-CM	16-Feb-15	13:31:13

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

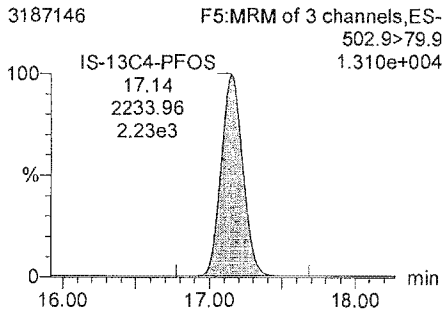
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-50-A2, Date: 14-Feb-2015, Time: 11:04:57, ID: 3187146, Description:

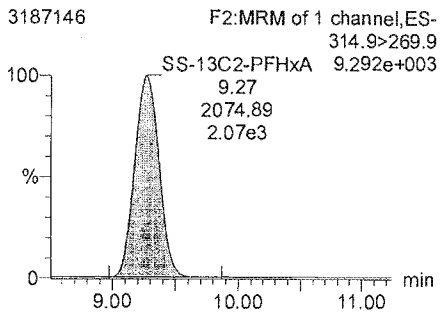
IS-13C2-PFOA



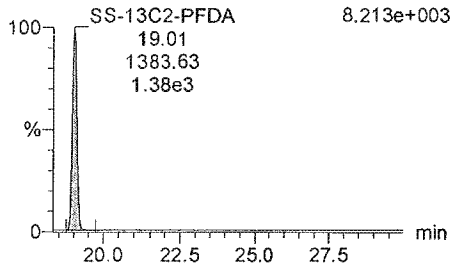
IS-13C4-PFOS



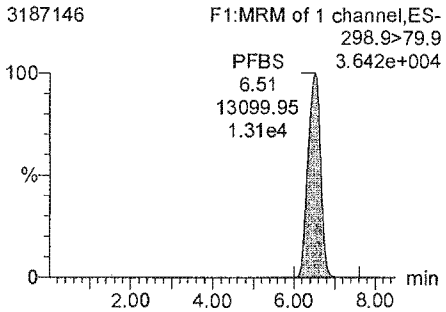
SS-13C2-PFHxA



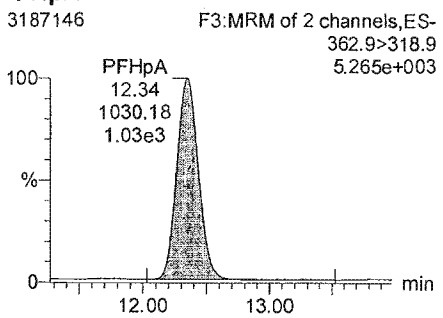
SS-13C2-PFDA



PFBS



PFHpA



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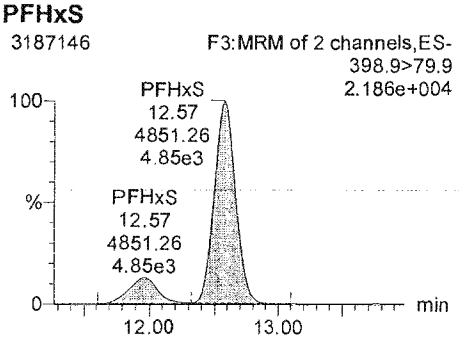
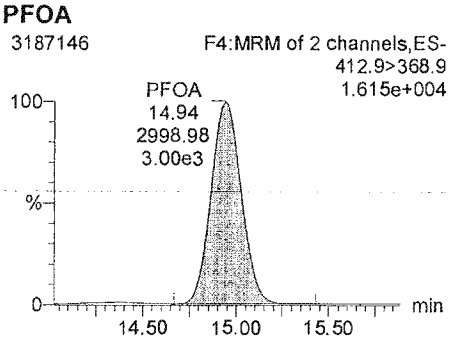
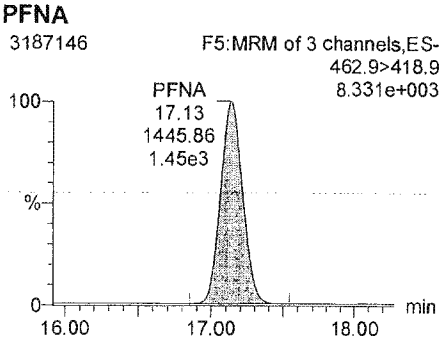


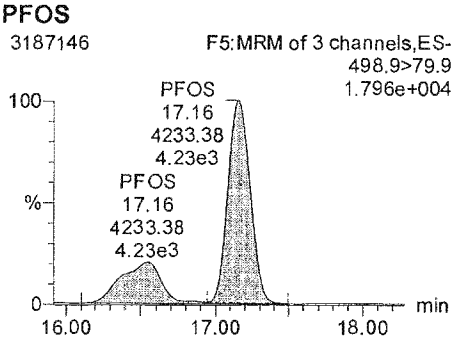
PFOA



PFNA



PFOS



Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-50-A2, Date: 14-Feb-2015, Time: 11:04:57, ID: 3187146, Description:

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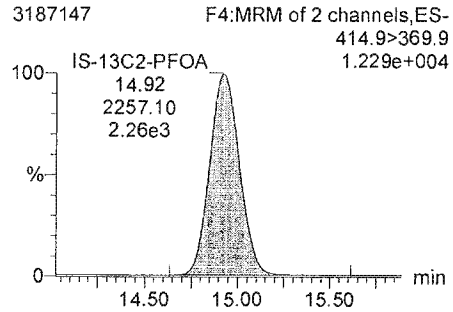
1	IS-13C2-PFOA	14.94	2163.18		1.000	48.422506	96.8	bb			
2	IS-13C4-PFOS	17.14	2233.96		1.000	95.776316	95.8	bb			
3	SS-13C2-PFHxA	9.27	2074.89	1	1.000	49.642730	99.3	bb			
4	SS-13C2-PFDA	19.01	1383.63	1	1.000	97.837298	97.8	bb			
5	PFBS	6.51	13099.95	2	1.000	443.019302	98.4	bb			
6	PFHpA	12.34	1030.18	1	1.000	49.268355	98.5	db			
7	PFHxS	12.57	4851.26	2	1.000	150.166637	100.1	MM	SP-CM	16-Feb-15	13:27:49
8	PFOA	14.94	2998.98	1	1.000	97.729484	97.7	bb			
9	PFNA	17.13	1445.86	1	1.000	97.400896	97.4	bb			
10	PFOS	17.16	4233.38	2	1.000	196.966935	98.5	MM	SP-CM	16-Feb-15	13:31:19

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

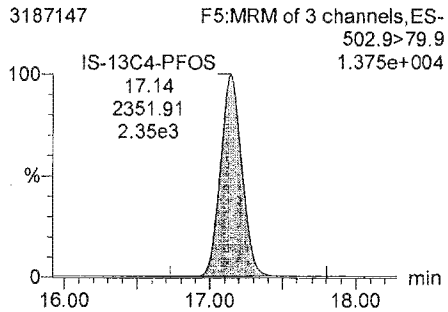
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-75-A2, Date: 14-Feb-2015, Time: 11:35:53, ID: 3187147, Description:

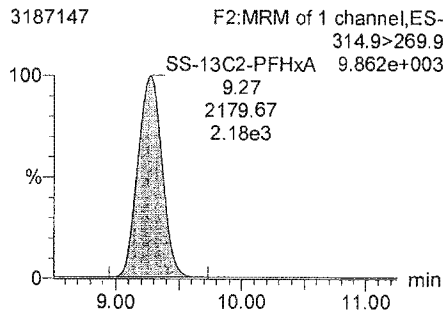
IS-13C2-PFOA



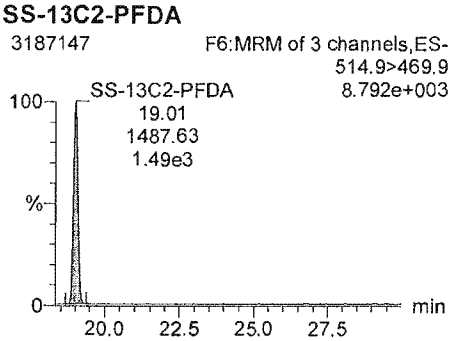
IS-13C4-PFOS



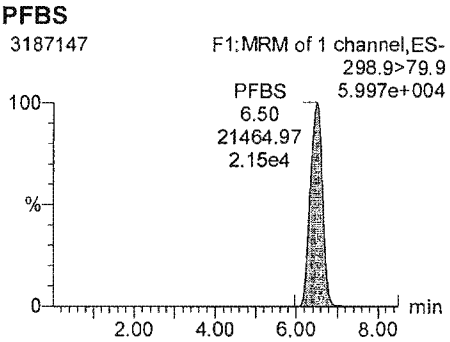
SS-13C2-PFHxA



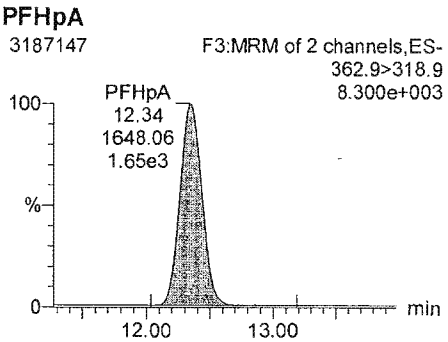
SS-13C2-PFDA



PFBS



PFHpA



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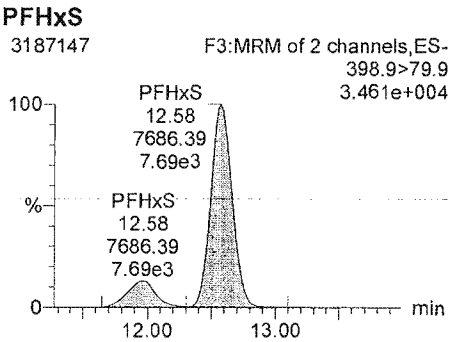
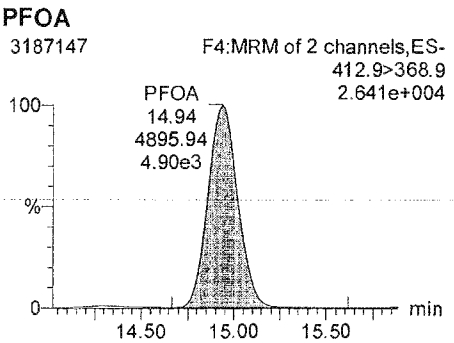


PFOA



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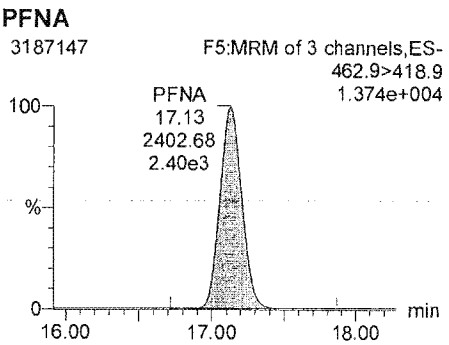
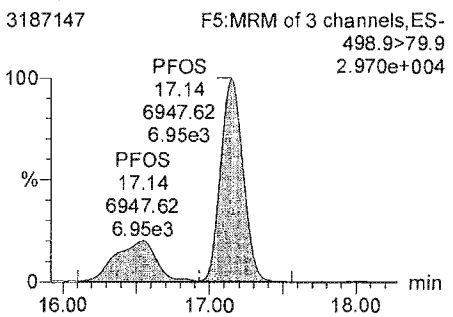


PFOS



Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-75-A2, Date: 14-Feb-2015, Time: 11:35:53, ID: 3187147, Description:

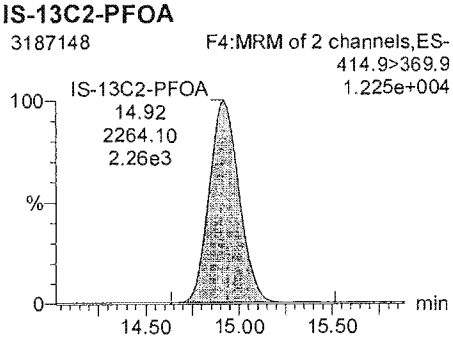
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2257.10		1.000	50.525054	101.1	bb			
2	IS-13C4-PFOS	17.14	2351.91		1.000	100.833037	100.8	bb			
3	SS-13C2-PFHxA	9.27	2179.67	1	1.000	49.979514	100.0	bb			
4	SS-13C2-PFDA	19.01	1487.63	1	1.000	100.813975	100.8	bb			
5	PFBS	6.50	21464.97	2	1.000	689.507032	102.1	bb			
6	PFHpA	12.34	1648.06	1	1.000	75.538735	100.7	bb			
7	PFHxS	12.58	7686.39	2	1.000	225.993966	100.4	MM	SP-CM	16-Feb-15	13:27:58
8	PFOA	14.94	4895.94	1	1.000	152.907693	101.9	bb			
9	PFNA	17.13	2402.68	1	1.000	155.122352	103.4	db			
10	PFOS	17.14	6947.62	2	1.000	307.041470	102.3	MM	SP-CM	16-Feb-15	13:31:23

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

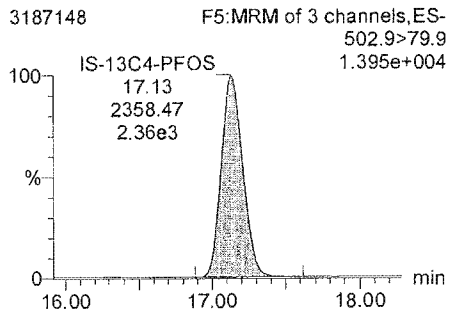
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-100-A2, Date: 14-Feb-2015, Time: 12:06:48, ID: 3187148, Description:

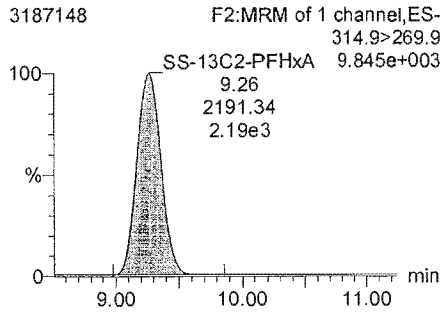
IS-13C2-PFOA



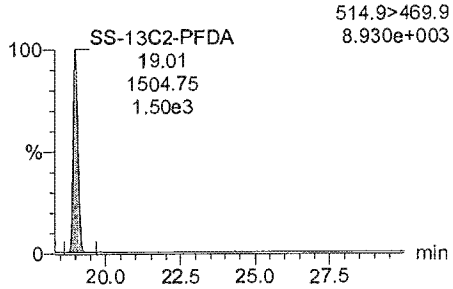
IS-13C4-PFOS



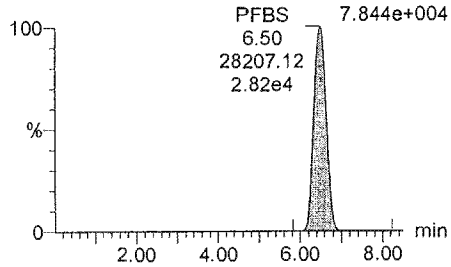
SS-13C2-PFHxA



SS-13C2-PFDA



PFBS



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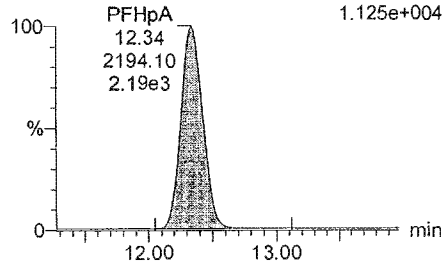
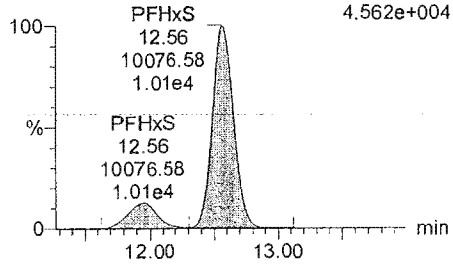
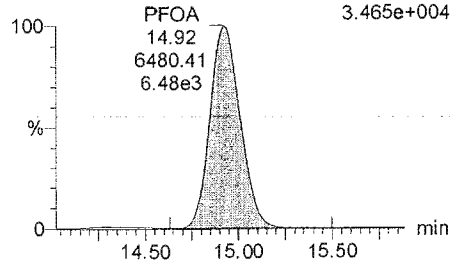


PFHxS



PFOA



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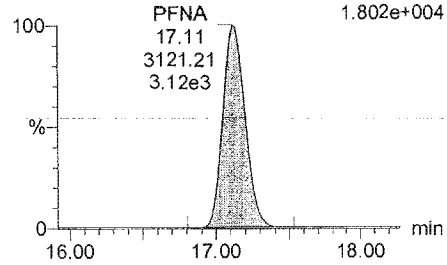
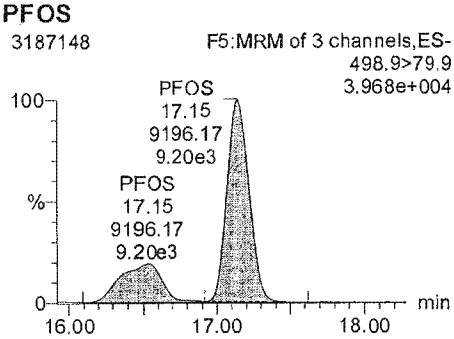


PFOS



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Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-100-A2, Date: 14-Feb-2015, Time: 12:06:48, ID: 3187148, Description:

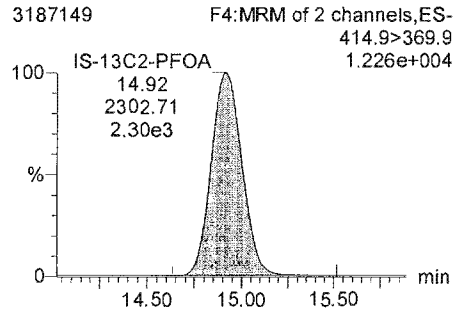
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2264.10		1.000	50.681771	101.4	bb			
2	IS-13C4-PFOS	17.13	2358.47		1.000	101.114498	101.1	bb			
3	SS-13C2-PFHxA	9.26	2191.34	1	1.000	50.091847	100.2	bb			
4	SS-13C2-PFDA	19.01	1504.75	1	1.000	101.658436	101.7	bb			
5	PFBS	6.50	28207.12	2	1.000	903.559043	100.4	bb			
6	PFHpA	12.34	2194.10	1	1.000	100.255660	100.3	bd			
7	PFHxS	12.56	10076.58	2	1.000	295.445323	98.5	MM	SP-CM	16-Feb-15	13:28:04
8	PFOA	14.92	6480.41	1	1.000	201.767166	100.9	bb			
9	PFNA	17.11	3121.21	1	1.000	200.888708	100.4	bb			
10	PFOS	17.15	9196.17	2	1.000	405.281910	101.3	MM	SP-CM	16-Feb-15	13:31:32

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

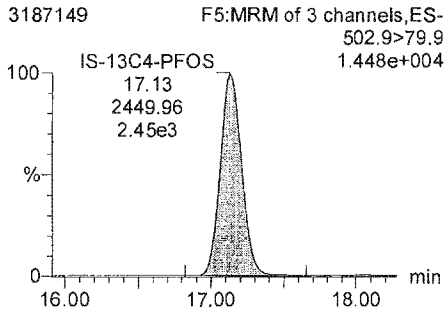
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-125-A2, Date: 14-Feb-2015, Time: 12:37:44, ID: 3187149, Description:

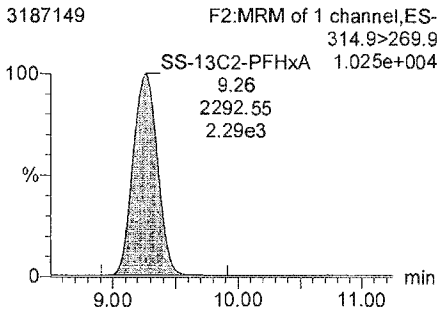
IS-13C2-PFOA



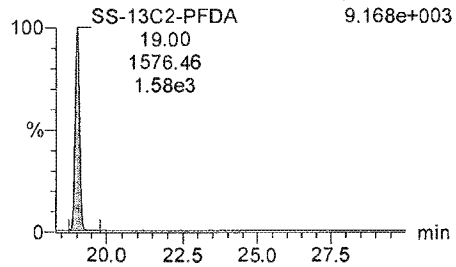
IS-13C4-PFOS



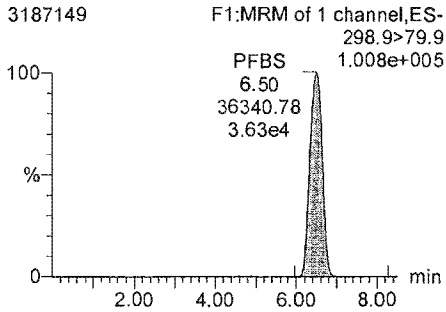
SS-13C2-PFHxA



SS-13C2-PFDA



PFBS



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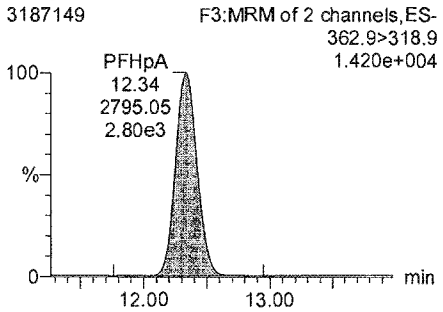
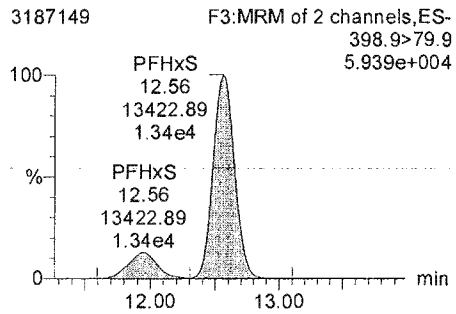
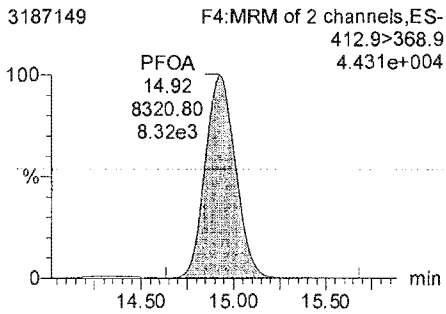


PFHxS



PFOA



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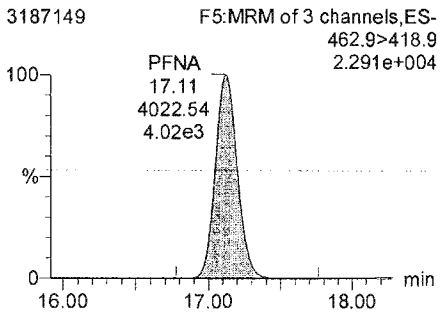
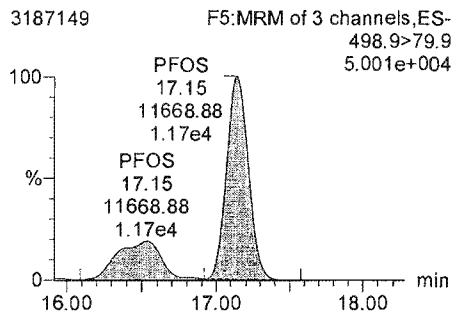


PFOS



Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-125-A2, Date: 14-Feb-2015, Time: 12:37:44, ID: 3187149, Description:

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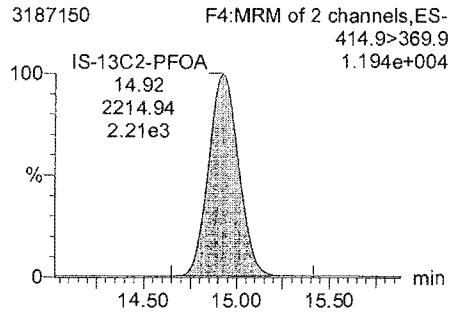
1	IS-13C2-PFOA	14.92	2302.71		1.000	51.545963	103.1	bb			
2	IS-13C4-PFOS	17.13	2449.96		1.000	105.036676	105.0	bb			
3	SS-13C2-PFHxA	9.26	2292.55	1	1.000	51.526735	103.1	bb			
4	SS-13C2-PFDA	19.00	1576.46	1	1.000	104.717545	104.7	bb			
5	PFBS	6.50	36340.78	2	1.000	1120.635799	99.6	bb			
6	PFHpA	12.34	2795.05	1	1.000	125.573526	100.5	bb			
7	PFHxS	12.56	13422.89	2	1.000	378.863113	101.0	MM	SP-CM	16-Feb-15	13:28:09
8	PFOA	14.92	8320.80	1	1.000	254.723967	101.9	bb			
9	PFNA	17.11	4022.54	1	1.000	254.560439	101.8	bb			
10	PFOS	17.15	11668.88	2	1.000	495.053501	99.0	MM	SP-CM	16-Feb-15	13:32:10

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

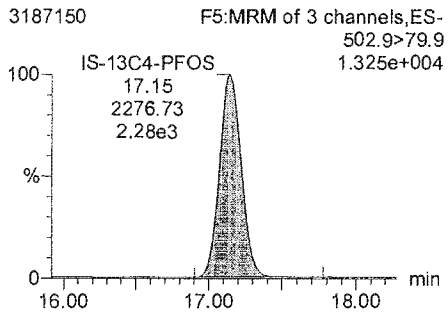
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-150-A2, Date: 14-Feb-2015, Time: 13:08:39, ID: 3187150, Description:

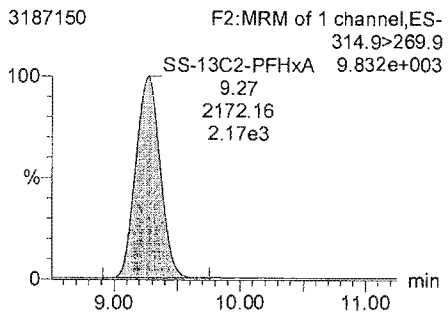
IS-13C2-PFOA



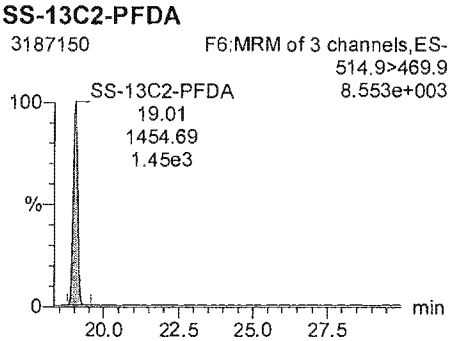
IS-13C4-PFOS



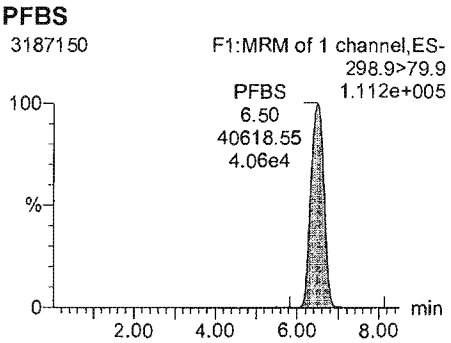
SS-13C2-PFHxA



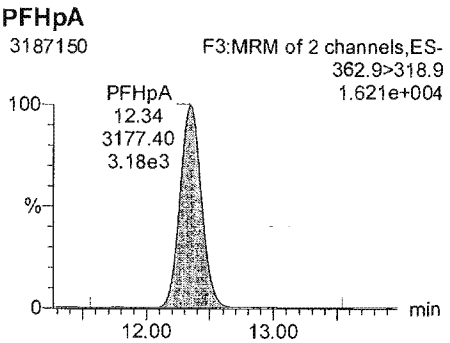
SS-13C2-PFDA



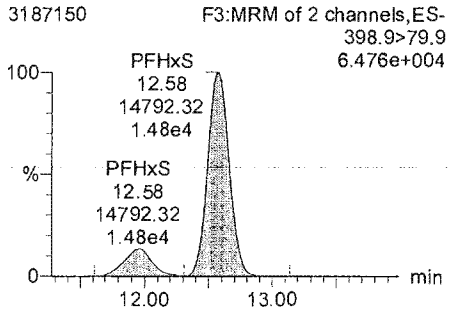
PFBS



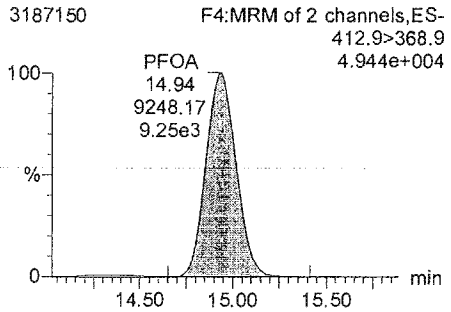
PFHpA



PFHxS



PFOA



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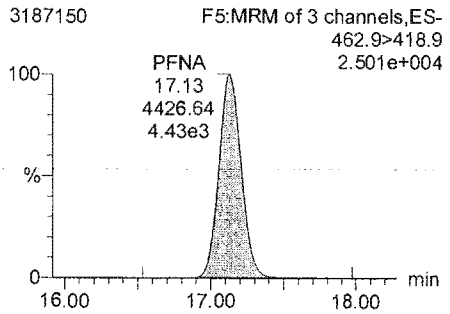
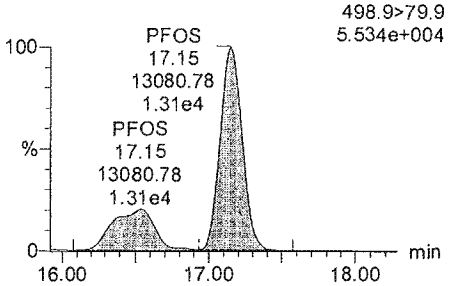


PFOS



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Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: I-150-A2, Date: 14-Feb-2015, Time: 13:08:39, ID: 3187150, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2214.94		1.000	49.581329	99.2	bb			
2	IS-13C4-PFOS	17.15	2276.73		1.000	97.609729	97.6	bb			
3	SS-13C2-PFHxA	9.27	2172.16	1	1.000	50.755314	101.5	bb			
4	SS-13C2-PFDA	19.01	1454.69	1	1.000	100.457538	100.5	bb			
5	PFBS	6.50	40618.55	2	1.000	1347.852973	99.8	bb			
6	PFHpA	12.34	3177.40	1	1.000	148.407777	98.9	bb			
7	PFHxS	12.58	14792.32	2	1.000	449.283699	99.8	MM	SP-CM	16-Feb-15	13:28:14
8	PFOA	14.94	9248.17	1	1.000	294.331738	98.1	bd			
9	PFNA	17.13	4426.64	1	1.000	291.233289	97.1	db			
10	PFOS	17.15	13080.78	2	1.000	597.178722	99.5	MM	SP-CM	16-Feb-15	13:32:15

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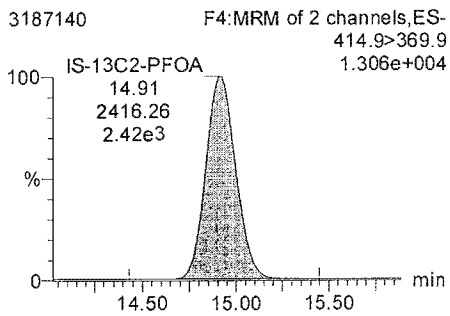
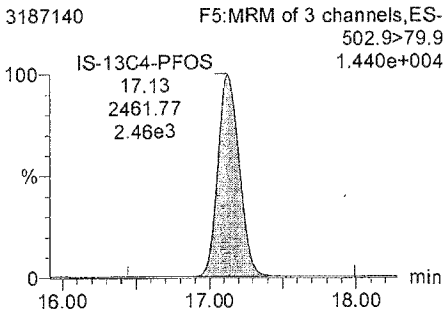
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: LIB-B2, Date: 14-Feb-2015, Time: 13:39:36, ID: 3187140, Description:

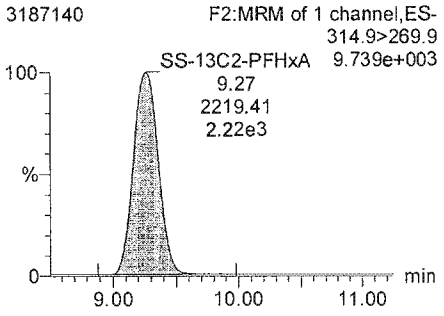
IS-13C2-PFOA



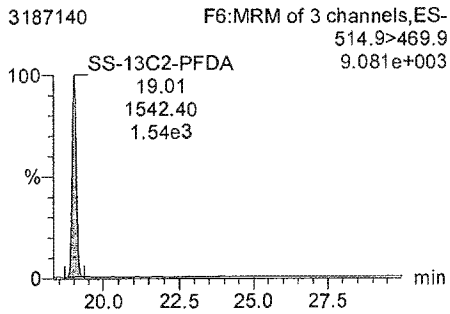
IS-13C4-PFOS



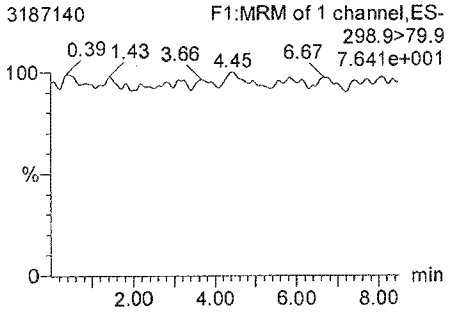
SS-13C2-PFHxA



SS-13C2-PFDA



PFBS



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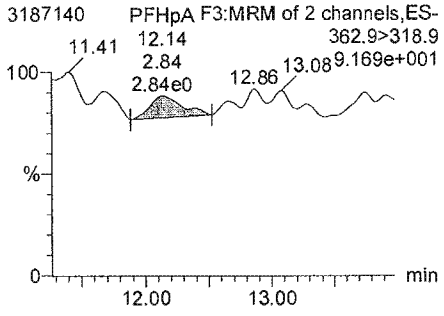

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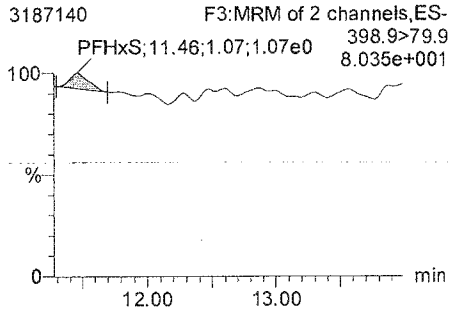

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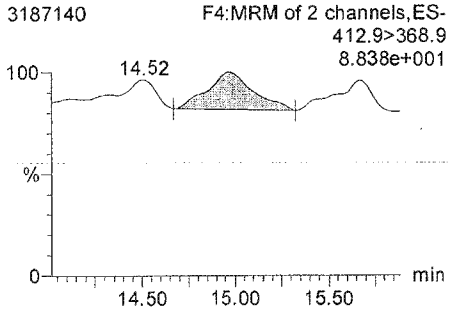

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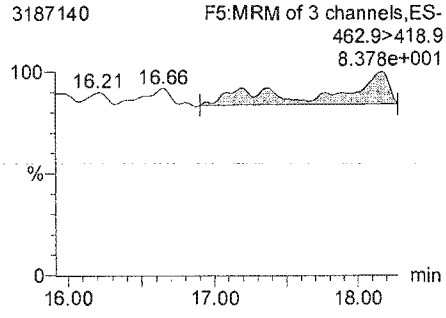
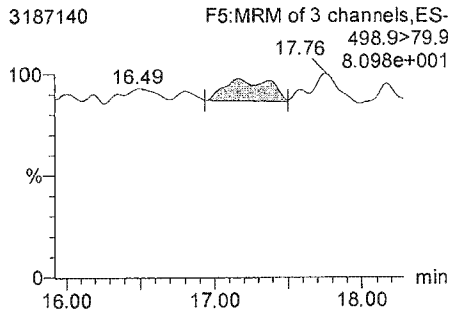


PFOS



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Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: LIB-B2, Date: 14-Feb-2015, Time: 13:39:36, ID: 3187140, Description:

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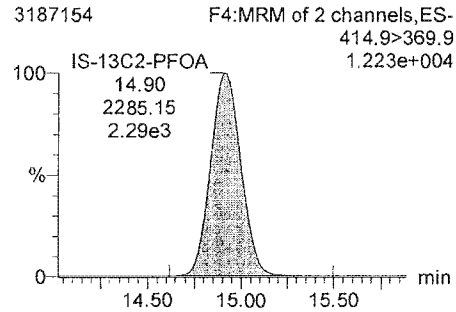
1	IS-13C2-PFOA	14.91	2416.26		1.000	54.087680	108.2	bb			
2	IS-13C4-PFOS	17.13	2461.77		1.000	105.543175	105.5	bb			
3	SS-13C2-PFHxA	9.27	2219.41	1	1.000	47.538653	95.1	bb			
4	SS-13C2-PFDA	19.01	1542.40	1	1.000	97.640332	97.6	bb			
5	PFBS		0	2	1.000	0					
6	PFHpA	12.14	2.84	1	1.000	0.121597		bb			
7	PFHxS	11.46	1.07	2	1.000	0.030140		bb			
8	PFOA	14.97	4.70	1	1.000	0.137149		bb			
9	PFNA	18.17	6.46	1	1.000	0.389902		bb			
10	PFOS	17.16	3.20	2	1.000	0.134982		bd			

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

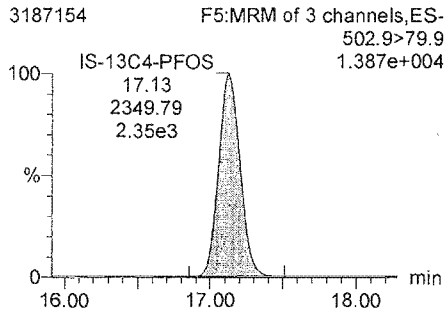
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: CCL-10-A2, Date: 14-Feb-2015, Time: 14:10:31, ID: 3187154, Description:

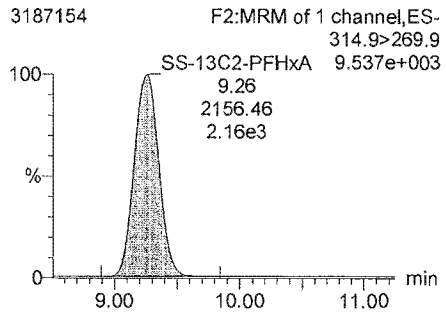
IS-13C2-PFOA



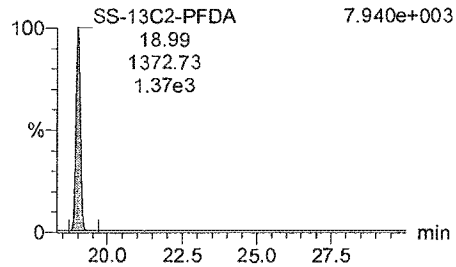
IS-13C4-PFOS



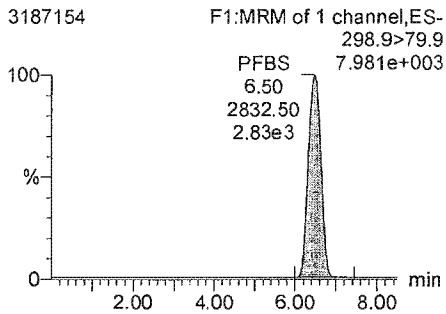
SS-13C2-PFHxA



SS-13C2-PFDA



PFBS



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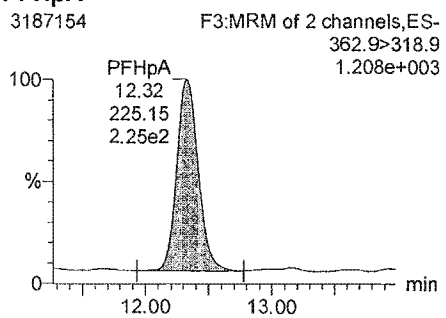

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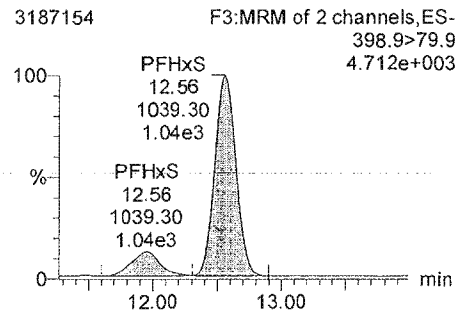
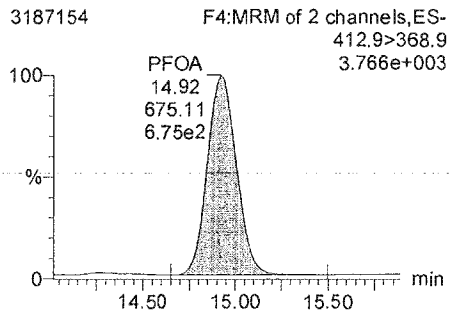


PFOA



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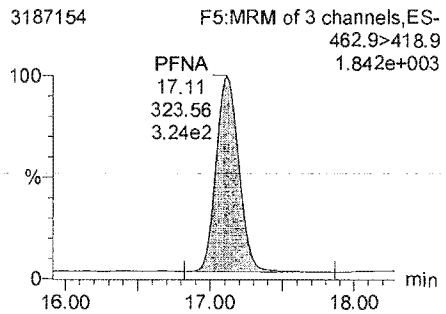
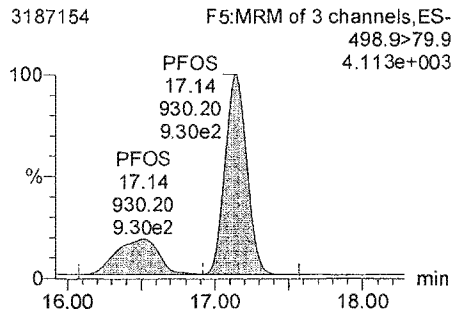


PFOS



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Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: CCL-10-A2, Date: 14-Feb-2015, Time: 14:10:31, ID: 3187154, Description:

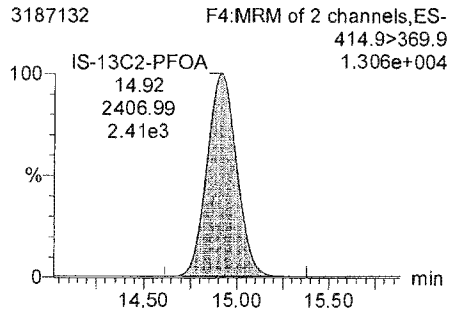
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.90	2285.15		1.000	51.152839	102.3	bb			
2	IS-13C4-PFOS	17.13	2349.79		1.000	100.742233	100.7	bb			
3	SS-13C2-PFHxA	9.26	2156.46	1	1.000	48.840413	97.7	bb			
4	SS-13C2-PFDA	18.99	1372.73	1	1.000	91.885665	91.9	bb			
5	PFBS	6.50	2832.50	2	1.000	91.068787	101.2	bb			
6	PFHpA	12.32	225.15	1	1.000	10.193131	101.9	bd			
7	PFHxS	12.56	1039.30	2	1.000	30.584966	101.9	MM	SP-CM	16-Feb-15	13:28:20
8	PFOA	14.92	675.11	1	1.000	20.825837	104.1	bb			
9	PFNA	17.11	323.56	1	1.000	20.633360	103.2	bb			
10	PFOS	17.14	930.20	2	1.000	41.145921	102.9	MM	SP-CM	16-Feb-15	13:32:22

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

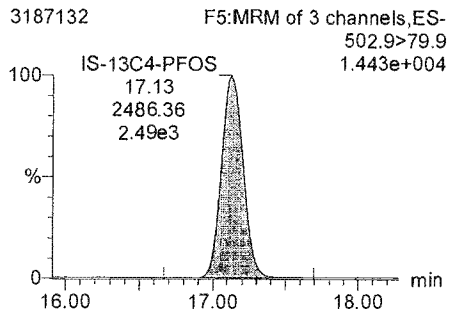
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: LRB-A2, Date: 14-Feb-2015, Time: 15:43:17, ID: 3187132, Description:

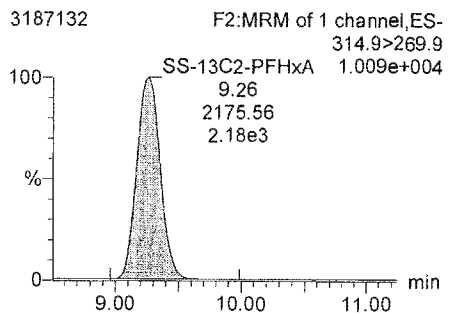
IS-13C2-PFOA



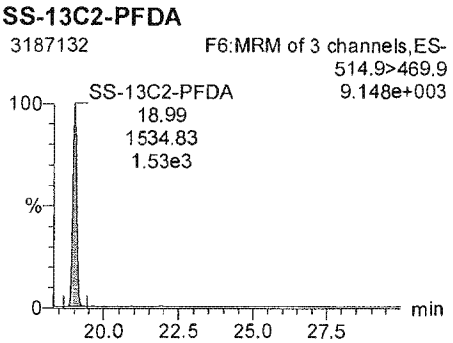
IS-13C4-PFOS



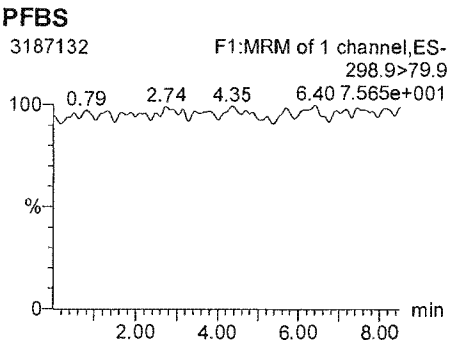
SS-13C2-PFHxA



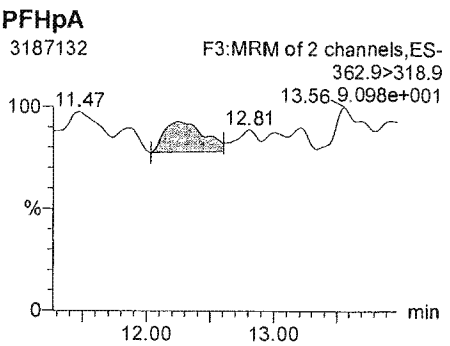
SS-13C2-PFDA



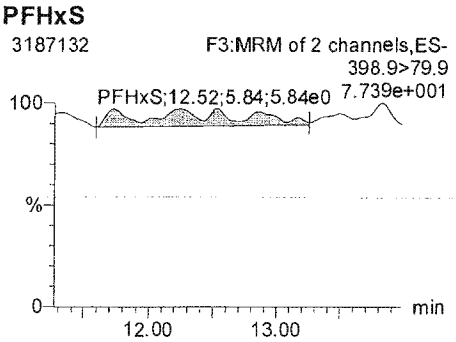
PFBS



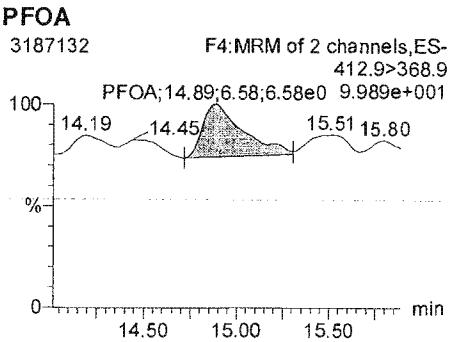
PFHpA



PFHxS



PFOA



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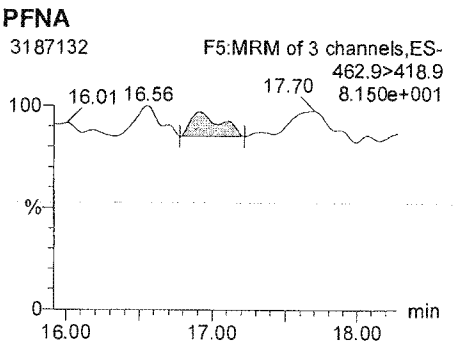
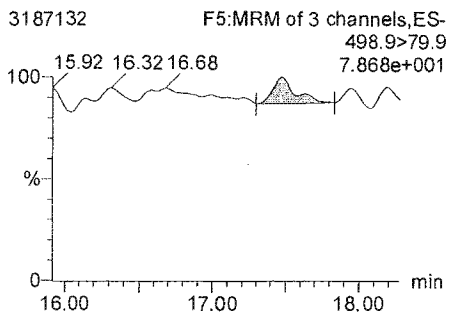


PFOS



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Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: LRB-A2, Date: 14-Feb-2015, Time: 15:43:17, ID: 3187132, Description:

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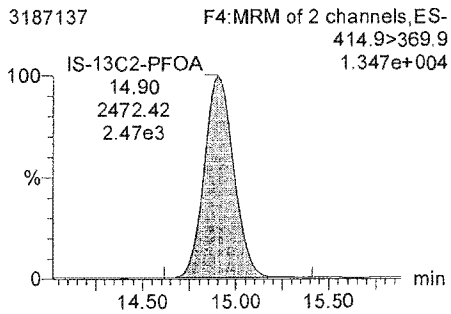
2	IS-13C4-PFOS	17.13	2486.36		1.000	106.597504	106.6	bb			
3	SS-13C2-PFHxA	9.26	2175.56	1	1.000	46.778779	93.6	bb			
4	SS-13C2-PFDA	18.99	1534.83	1	1.000	97.535389	97.5	bb			
5	PFBS		0	2	1.000	0					
6	PFHpA	12.25	4.92	1	1.000	0.211680		bd			
7	PFHxS	12.52	5.84	2	1.000	0.162449		bd			
8	PFOA	14.89	6.58	1	1.000	0.192589		bd			
9	PFNA	16.91	2.35	1	1.000	0.142152		db			
10	PFOS	17.47	1.81	2	1.000	0.075874		bb			

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

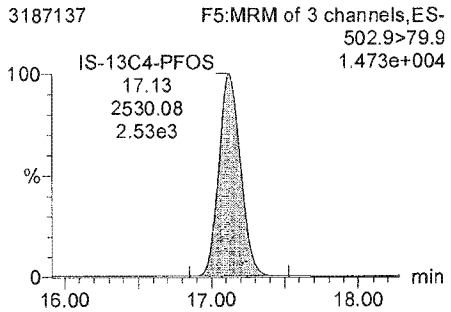
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: FBL-10-A2, Date: 14-Feb-2015, Time: 16:14:13, ID: 3187137, Description:

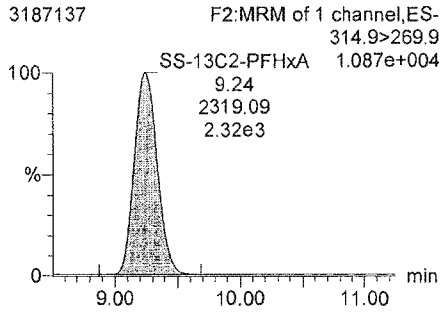
IS-13C2-PFOA



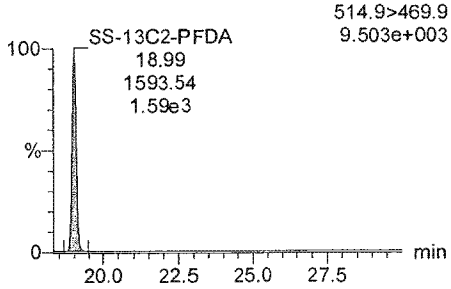
IS-13C4-PFOS



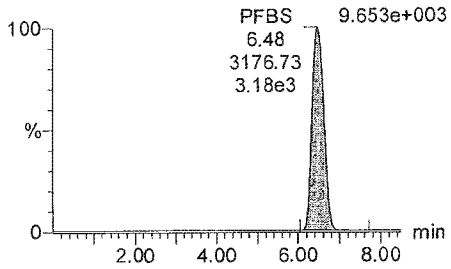
SS-13C2-PFHxA



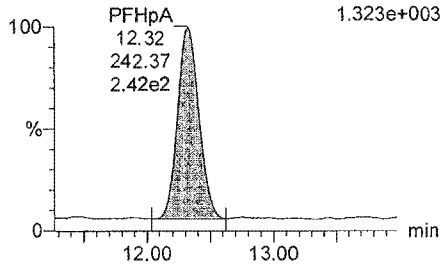
SS-13C2-PFDA



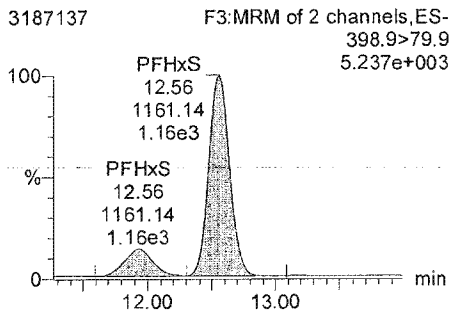
PFBS



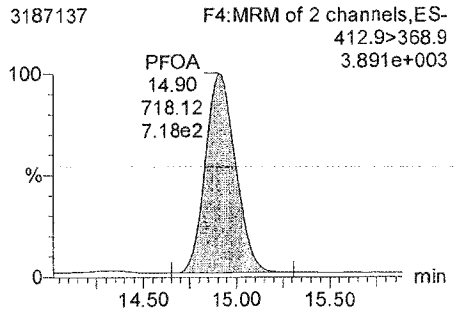
PFHpA



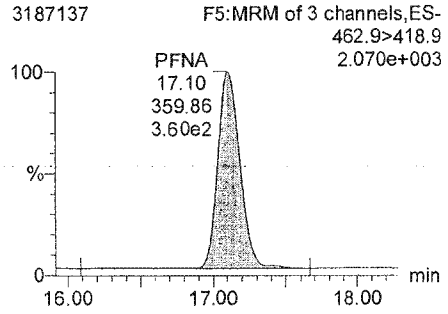
PFHxS



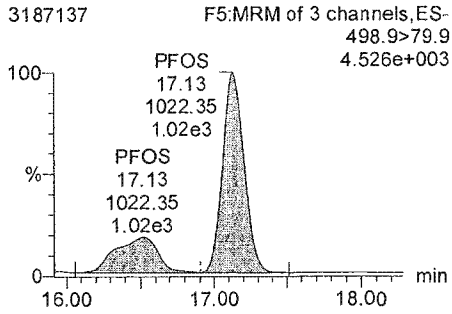
PFOA



PFNA



PFOS



Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
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Name: FBL-10-A2, Date: 14-Feb-2015, Time: 16:14:13, ID: 3187137, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.90	2472.42		1.000	55.344906	110.7	bb			
2	IS-13C4-PFOS	17.13	2530.08		1.000	108.471604	108.5	bb			
3	SS-13C2-PFHxA	9.24	2319.09	1	1.000	48.545458	97.1	bb			
4	SS-13C2-PFDA	18.99	1593.54	1	1.000	98.586587	98.6	bb			
5	PFBS	6.48	3176.73	2	1.000	94.858413	105.4	bb			
6	PFHpA	12.32	242.37	1	1.000	10.141684	101.4	bd			
7	PFHxS	12.56	1161.14	2	1.000	31.735405	105.8	MM	SP-CM	16-Feb-15	13:28:32
8	PFOA	14.90	718.12	1	1.000	20.474823	102.4	bb			
9	PFNA	17.10	359.86	1	1.000	21.210242	106.1	bb			
10	PFOS	17.13	1022.35	2	1.000	41.999656	105.0	MM	SP-CM	16-Feb-15	13:32:45

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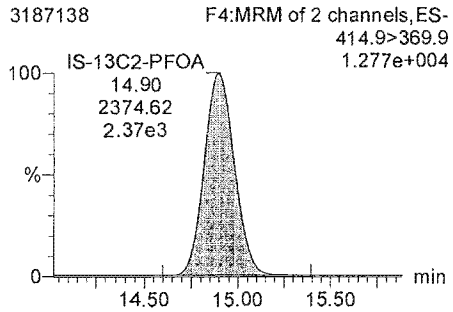
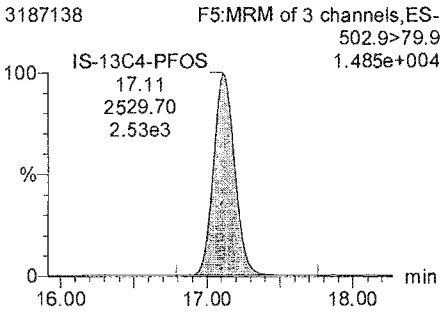
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: FBH-125-A2, Date: 14-Feb-2015, Time: 16:45:09, ID: 3187138, Description:

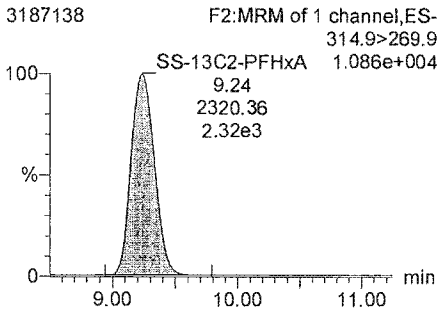
IS-13C2-PFOA



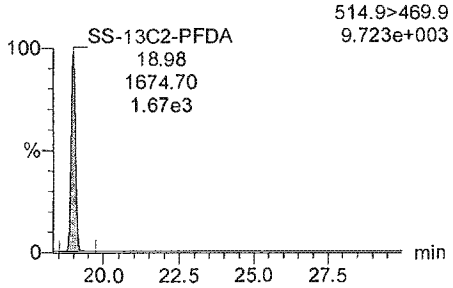
IS-13C4-PFOS



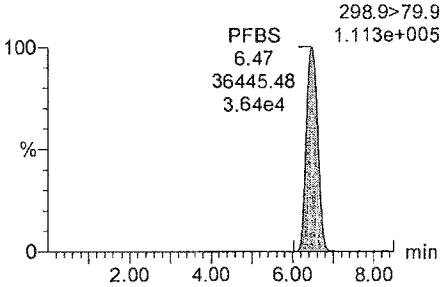
SS-13C2-PFHxA



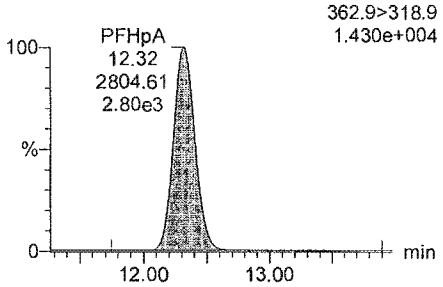
SS-13C2-PFDA



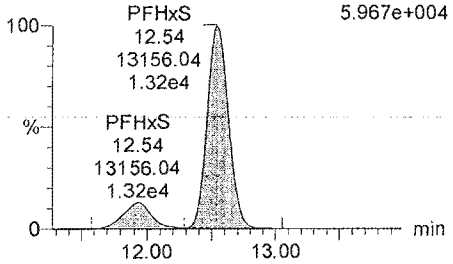
PFBS



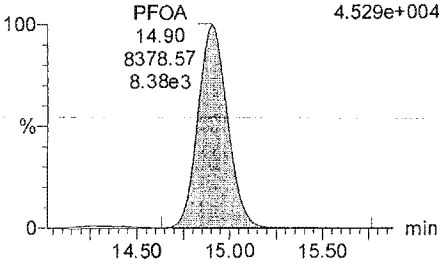
PFHpA



PFHxS



PFOA



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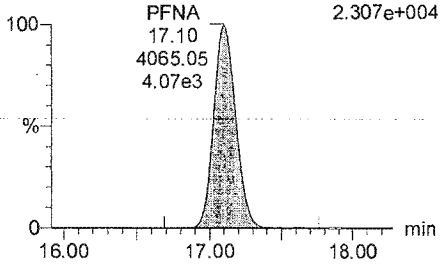
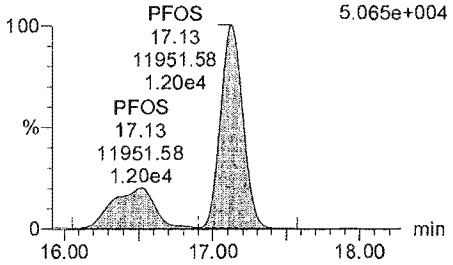


PFOS



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Name: FBH-125-A2, Date: 14-Feb-2015, Time: 16:45:09, ID: 3187138, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.90	2374.62		1.000	53.155617	106.3	bb			
2	IS-13C4-PFOS	17.11	2529.70		1.000	108.455312	108.5	bb			
3	SS-13C2-PFHxA	9.24	2320.36	1	1.000	50.572420	101.1	bb			
4	SS-13C2-PFDA	18.98	1674.70	1	1.000	107.874944	107.9	bb			
5	PFBS	6.47	36445.48	2	1.000	1088.438796	96.8	bb			
6	PFHpA	12.32	2804.61	1	1.000	122.187285	97.7	bb			
7	PFHxS	12.54	13156.04	2	1.000	359.626577	95.9	MM	SP-CM	16-Feb-15	13:28:38
8	PFOA	14.90	8378.57	1	1.000	248.725420	99.5	bb			
9	PFNA	17.10	4065.05	1	1.000	249.460146	99.8	db			
10	PFOS	17.13	11951.58	2	1.000	491.064410	98.2	MM	SP-CM	16-Feb-15	13:32:51

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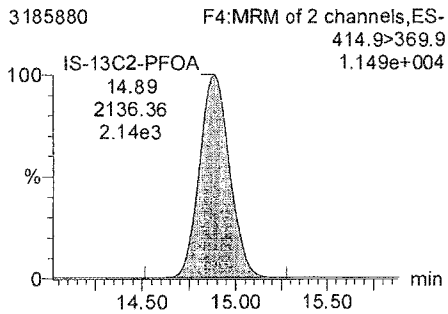
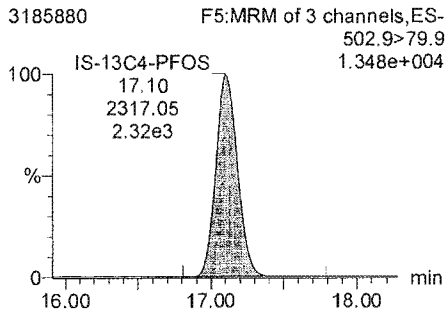
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185880, Date: 14-Feb-2015, Time: 18:17:48, ID: 3185880, Description:

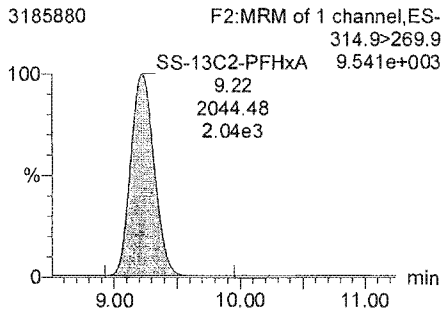
IS-13C2-PFOA



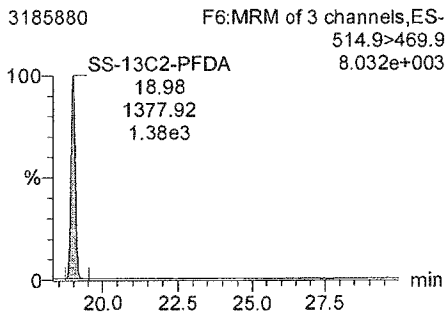
IS-13C4-PFOS



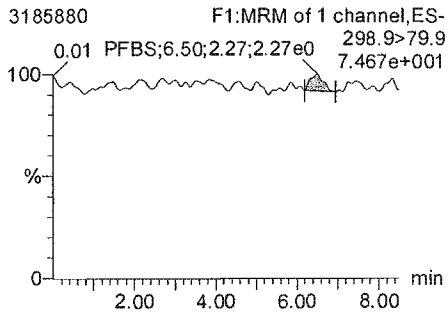
SS-13C2-PFHxA



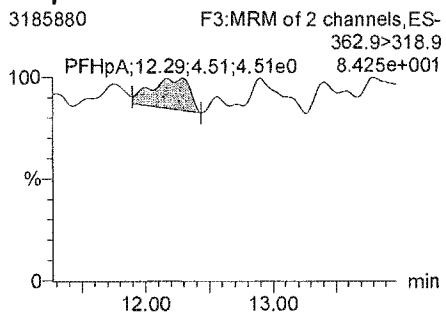
SS-13C2-PFDA



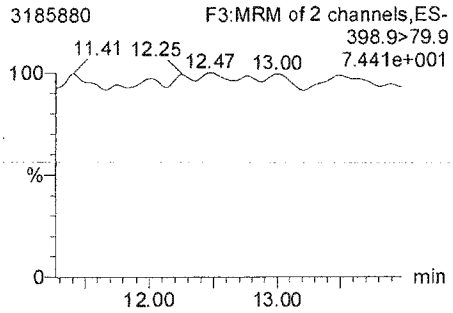
PFBS



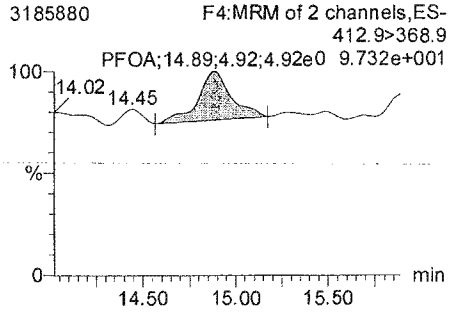
PFHpA



PFHxS



PFOA



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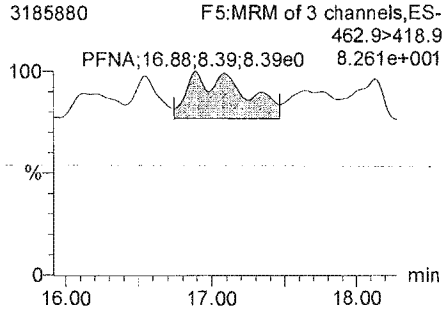
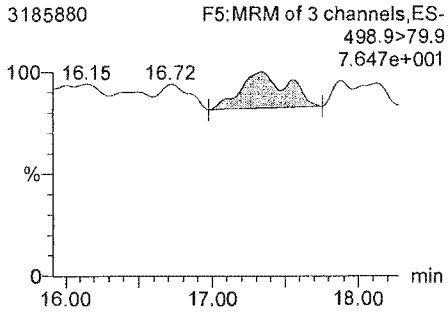


PFOS



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Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
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Name: 3185880, Date: 14-Feb-2015, Time: 18:17:48, ID: 3185880, Description:

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1	IS-13C2-PFOA	14.89	2136.36		0.990	47.343899	95.6	bb			
2	IS-13C4-PFOS	17.10	2317.05		0.990	98.345148	99.3	bb			
3	SS-13C2-PFHxA	9.22	2044.48	1	0.990	49.034138	99.1	bb			
4	SS-13C2-PFDA	18.98	1377.92	1	0.990	97.670350	98.7	bb			
5	PFBS	6.50	2.27	2	0.990	0.073339		bb			
6	PFHpA	12.29	4.51	1	0.990	0.216024		db			
7	PFHxS		0	2	0.990	0					
8	PFOA	14.89	4.92	1	0.990	0.160622		bb			
9	PFNA	16.88	8.39	1	0.990	0.566299		dd			
10	PFOS	17.34	5.22	2	0.990	0.232043		bb			

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

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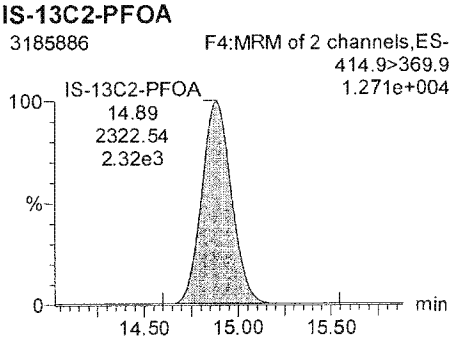
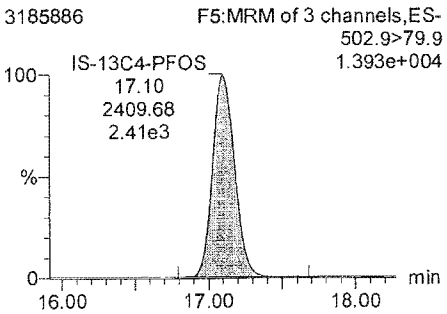
Name: 3185886, Date: 14-Feb-2015, Time: 18:48:43, ID: 3185886, Description:

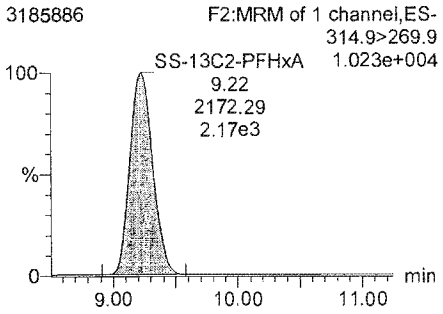
IS-13C2-PFOA



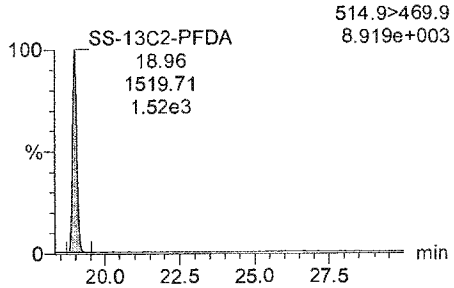
IS-13C4-PFOS



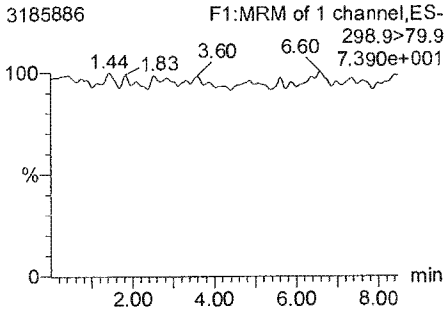
SS-13C2-PFHxA



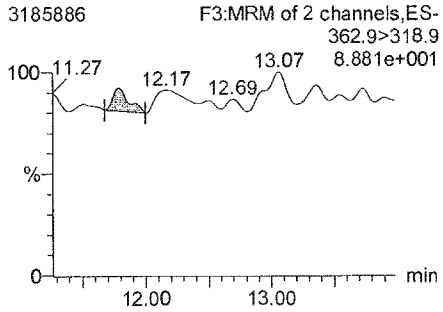
SS-13C2-PFDA



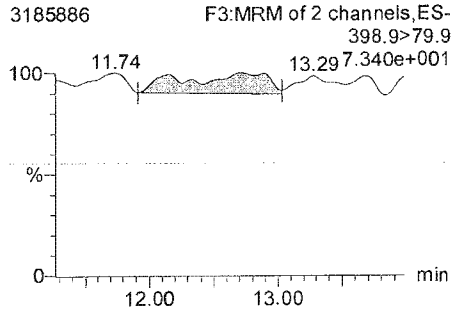
PFBS



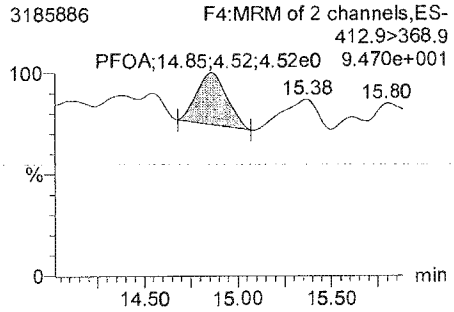
PFHpA



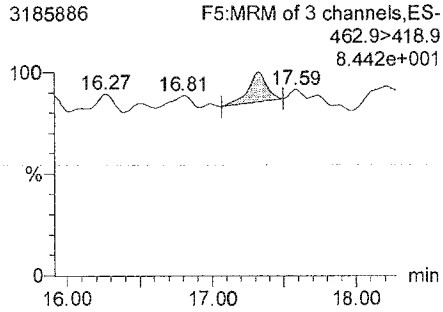
PFHxS



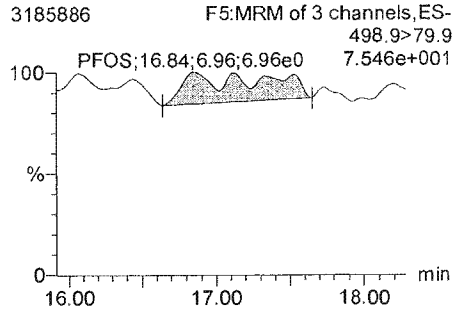
PFOA



PFNA



PFOS



UCMR3 PFAAs by ESI/LC/MS/MS

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Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185886, Date: 14-Feb-2015, Time: 18:48:43, ID: 3185886, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	2322.54		0.990	51.469913	104.0	bb			
2	IS-13C4-PFOS	17.10	2409.68		0.990	102.276618	103.3	bb			
3	SS-13C2-PFHxA	9.22	2172.29	1	0.990	47.922981	96.8	bb			
4	SS-13C2-PFDA	18.96	1519.71	1	0.990	99.085533	100.1	bb			
5	PFBS		0	2	0.990	0					
6	PFHpA	11.80	1.46	1	0.990	0.064207		bb			
7	PFHxS	12.71	5.54	2	0.990	0.157534		bd			
8	PFOA	14.85	4.52	1	0.990	0.135697		bb			
9	PFNA	17.33	1.90	1	0.990	0.118268		bb			
10	PFOS	16.84	6.96	2	0.990	0.297298		bb			

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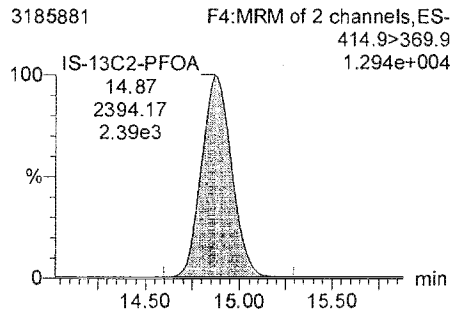
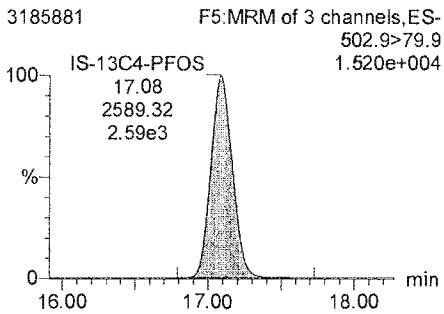
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185881, Date: 14-Feb-2015, Time: 23:26:55, ID: 3185881, Description:

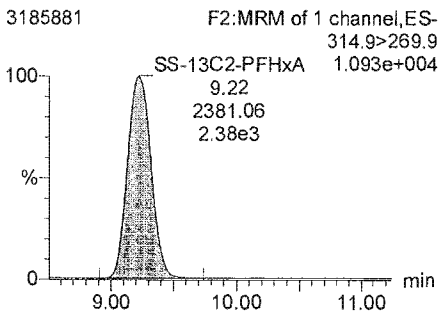
IS-13C2-PFOA



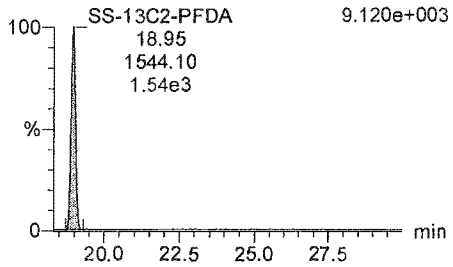
IS-13C4-PFOS



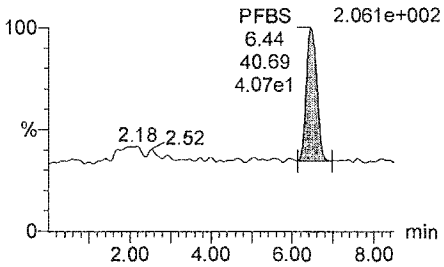
SS-13C2-PFHxA



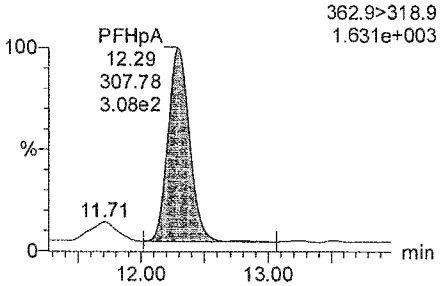
SS-13C2-PFDA



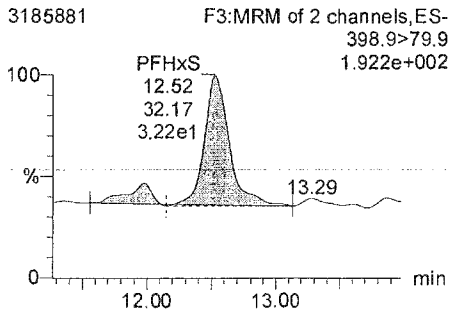
PFBS



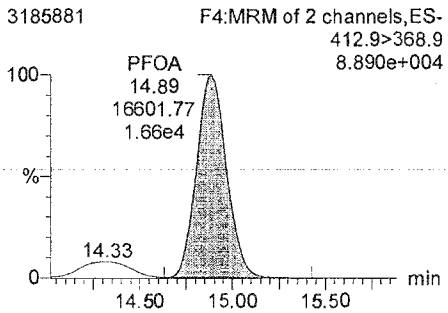
PFHpA



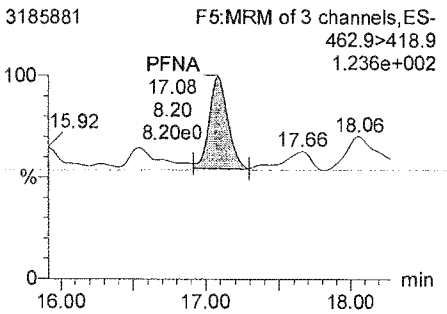
PFHxS



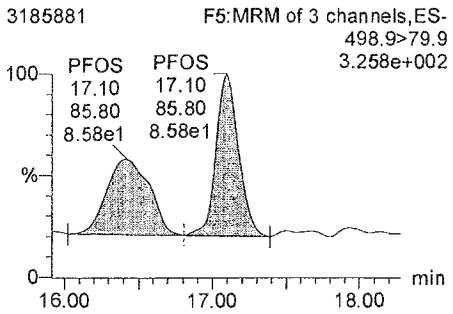
PFOA



PFNA



PFOS



UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185881, Date: 14-Feb-2015, Time: 23:26:55, ID: 3185881, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2394.17		1.000	53.593220	107.2	bb			
2	IS-13C4-PFOS	17.08	2589.32		1.000	111.011562	111.0	bb			
3	SS-13C2-PFHxA	9.22	2381.06	1	1.000	51.471688	102.9	bb			
4	SS-13C2-PFDA	18.95	1544.10	1	1.000	98.649789	98.6	bb			
5	PFBS	6.44	40.69	2	1.000	1.187189		bb			
6	PFHpA	12.29	307.78	1	1.000	13.299417		bd			
7	PFHxS	12.52	32.17	2	1.000	0.859186		MM	SP-CM	16-Feb-15	13:29:36
8	PFOA *	14.89	16601.77	1	1.000	488.814650		bb			
9	PFNA	17.08	8.20	1	1.000	0.498858		dd			
10	PFOS	17.10	85.80	2	1.000	3.444037		MM	SP-CM	16-Feb-15	13:34:28

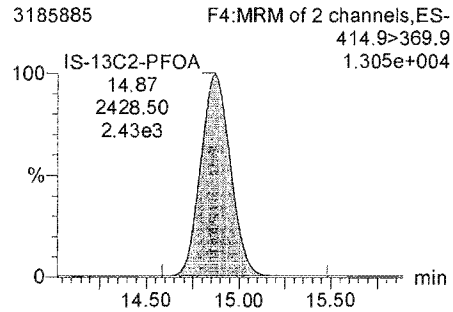
* Report from dilution.
CM
02/16/2015

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

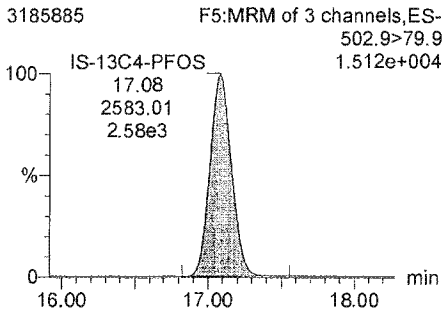
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185885, Date: 14-Feb-2015, Time: 23:57:51, ID: 3185885, Description:

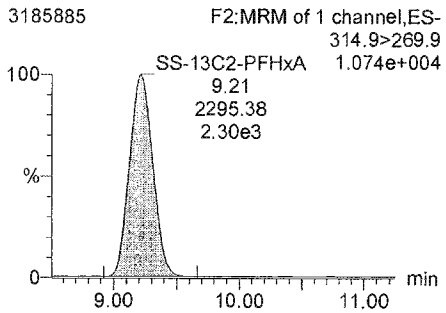
IS-13C2-PFOA



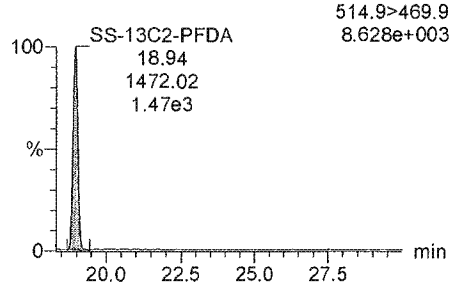
IS-13C4-PFOS



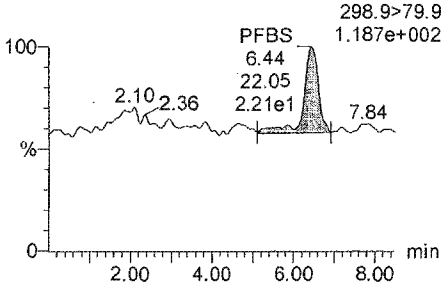
SS-13C2-PFHxA



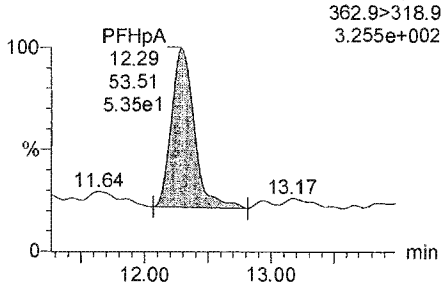
SS-13C2-PFDA



PFBS



PFHpA



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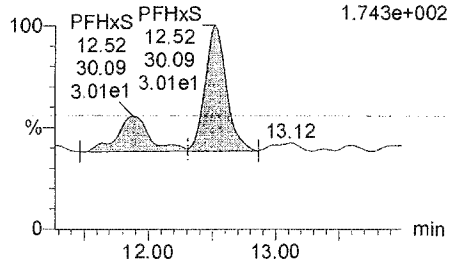
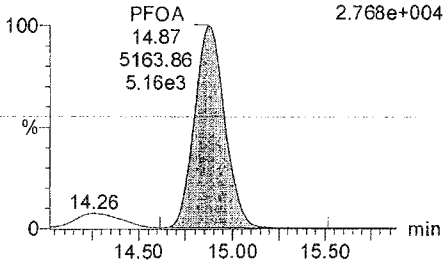


PFOA



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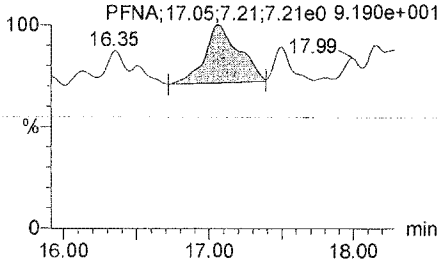
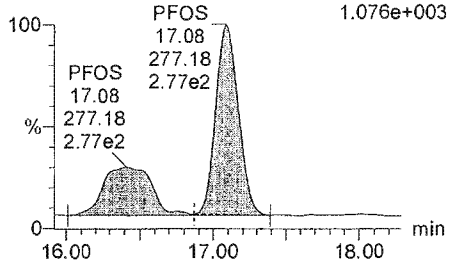


PFOS



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Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185885, Date: 14-Feb-2015, Time: 23:57:51, ID: 3185885, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2428.50		1.000	54.361761	108.7	bb			
2	IS-13C4-PFOS	17.08	2583.01		1.000	110.741120	110.7	bb			
3	SS-13C2-PFHxA	9.21	2295.38	1	1.000	48.918011	97.8	bb			
4	SS-13C2-PFDA	18.94	1472.02	1	1.000	92.715220	92.7	bb			
5	PFBS	6.44	22.05	2	1.000	0.645015		db			
6	PFHpA	12.29	53.51	1	1.000	2.279315		bb			
7	PFHxS	12.52	30.09	2	1.000	0.805627		MM	SP-CM	16-Feb-15	13:29:42
8	PFOA	14.87	5163.86	1	1.000	149.892631		bb			
9	PFNA	17.05	7.21	1	1.000	0.432760		bd			
10	PFOS	17.08	277.18	2	1.000	11.153687		MM	SP-CM	16-Feb-15	13:34:43

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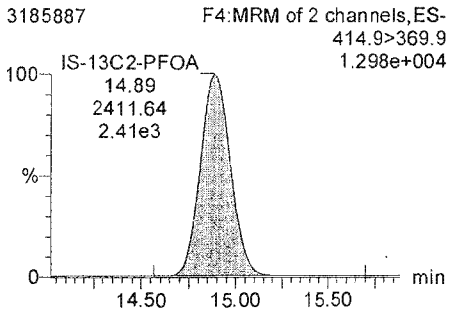
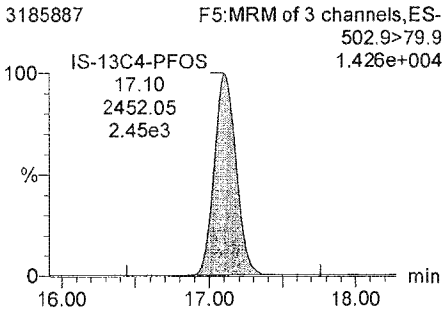
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185887, Date: 15-Feb-2015, Time: 00:28:40, ID: 3185887, Description:

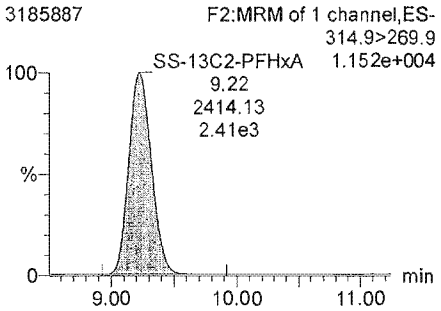
IS-13C2-PFOA



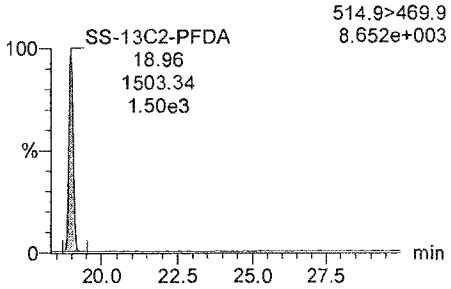
IS-13C4-PFOS



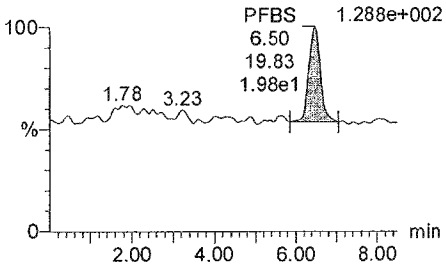
SS-13C2-PFHxA



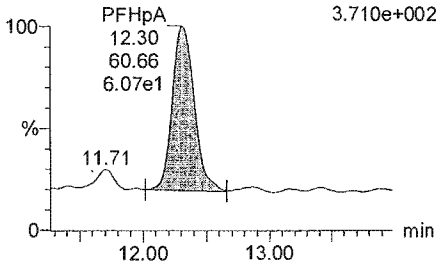
SS-13C2-PFDA



PFBS



PFHpA



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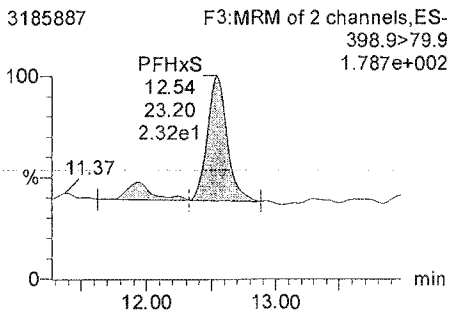
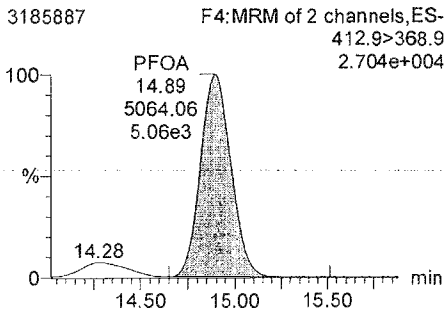


PFOA



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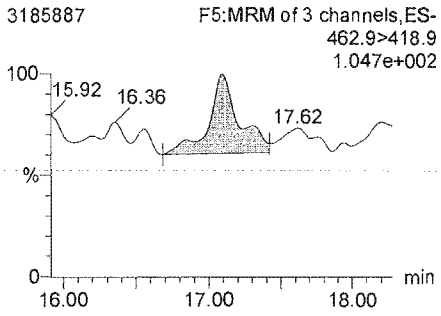
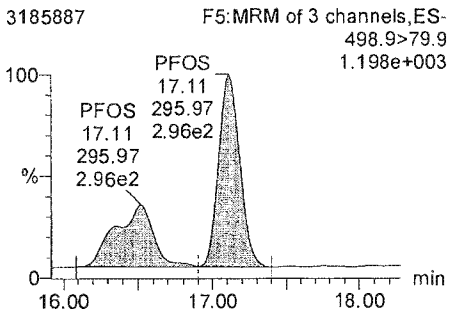


PFOS



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Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185887, Date: 15-Feb-2015, Time: 00:28:40, ID: 3185887, Description:

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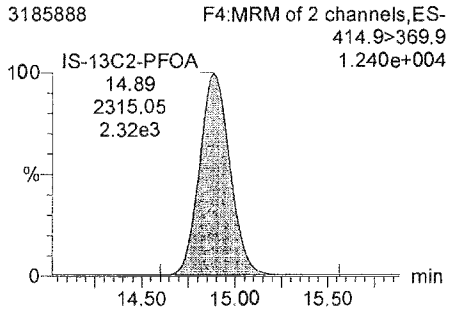
1	IS-13C2-PFOA	14.89	2411.64		0.980	52.904599	108.0	bb			
2	IS-13C4-PFOS	17.10	2452.05		0.980	103.024006	105.1	bb			
3	SS-13C2-PFHxA	9.22	2414.13	1	0.980	50.772397	103.6	bb			
4	SS-13C2-PFDA	18.96	1503.34	1	0.980	93.443315	95.4	bb			
5	PFBS	6.50	19.83	2	0.980	0.598693		bb			
6	PFHpA	12.30	60.66	1	0.980	2.550017		bd			
7	PFHxS	12.54	23.20	2	0.980	0.641151		MM	SP-CM	16-Feb-15	13:29:49
8	PFOA	14.89	5064.06	1	0.980	145.063198		bb			
9	PFNA	17.10	9.95	1	0.980	0.589028		bd			
10	PFOS	17.11	295.97	2	0.980	12.294742		MM	SP-CM	16-Feb-15	13:34:48

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

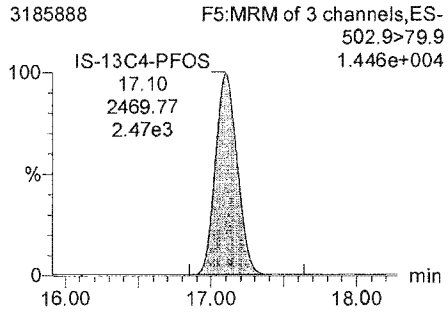
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185888, Date: 15-Feb-2015, Time: 00:59:27, ID: 3185888, Description:

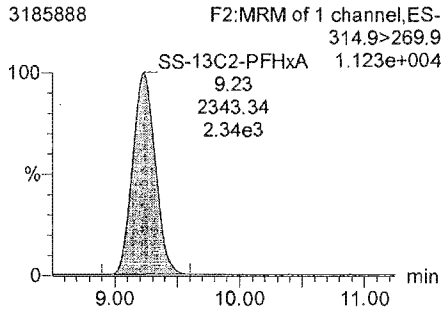
IS-13C2-PFOA



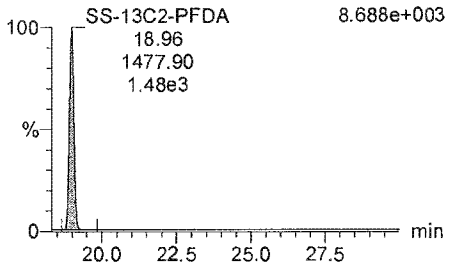
IS-13C4-PFOS



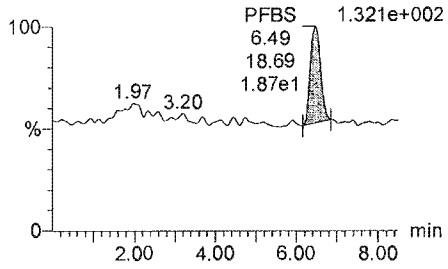
SS-13C2-PFHxA



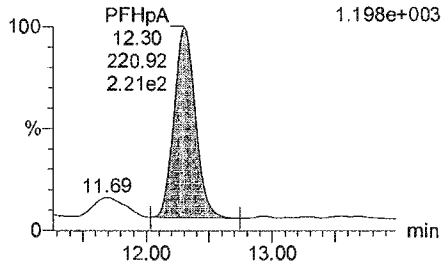
SS-13C2-PFDA



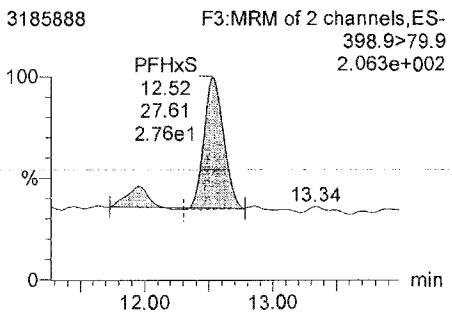
PFBS



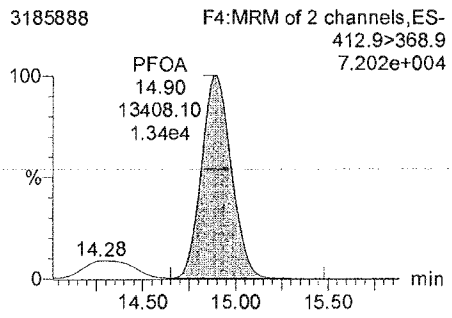
PFHpA



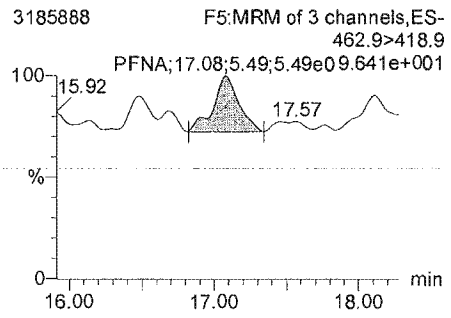
PFHxS



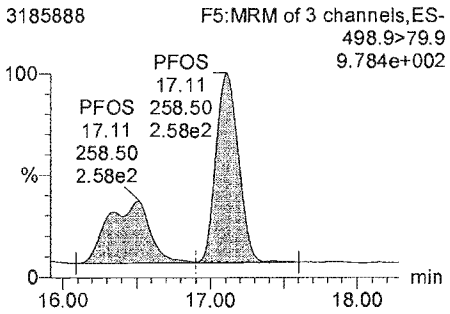
PFOA



PFNA



PFOS



UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185888, Date: 15-Feb-2015, Time: 00:59:27, ID: 3185888, Description:

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1	IS-13C2-PFOA	14.89	2315.05		0.970	50.267483	103.6	bb			
2	IS-13C4-PFOS	17.10	2469.77		0.970	102.709448	105.9	bb			
3	SS-13C2-PFHxA	9.23	2343.34	1	0.970	50.815977	104.8	bb			
4	SS-13C2-PFDA	18.96	1477.90	1	0.970	94.718190	97.6	bb			
5	PFBS	6.49	18.69	2	0.970	0.554448		bb			
6	PFHpA	12.30	220.92	1	0.970	9.576193		bb			
7	PFHxS	12.52	27.61	2	0.970	0.749909		MM	SP-CM	16-Feb-15	13:29:55
8	PFOA *	14.90	13408.10	1	0.970	396.025476		bb			
9	PFNA	17.08	5.49	1	0.970	0.335146		bb			
10	PFOS	17.11	258.50	2	0.970	10.552389		MM	SP-CM	16-Feb-15	13:34:53

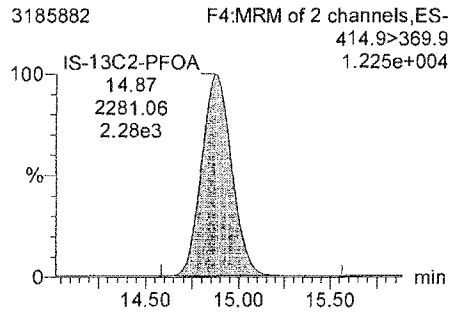
*Report from dilution.
CM
02/16/2015

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

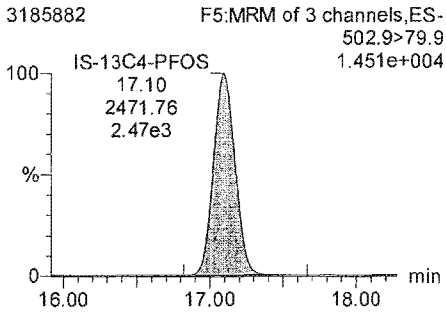
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185882, Date: 15-Feb-2015, Time: 01:30:23, ID: 3185882, Description:

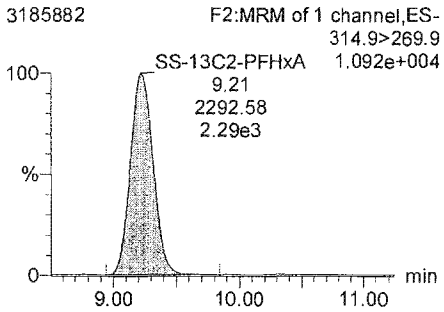
IS-13C2-PFOA



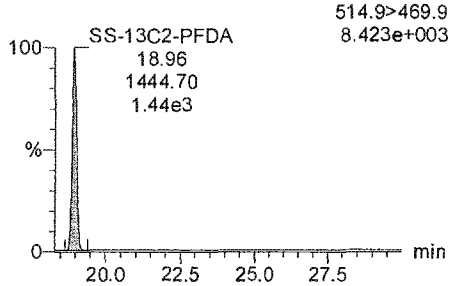
IS-13C4-PFOS



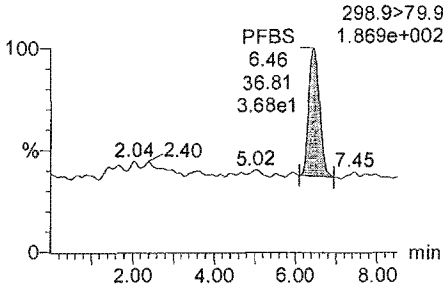
SS-13C2-PFHxA



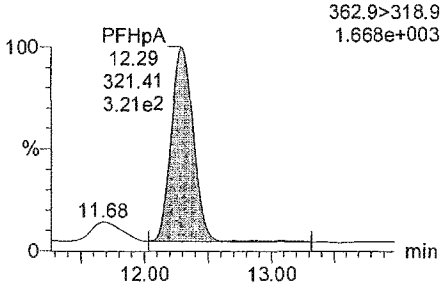
SS-13C2-PFDA



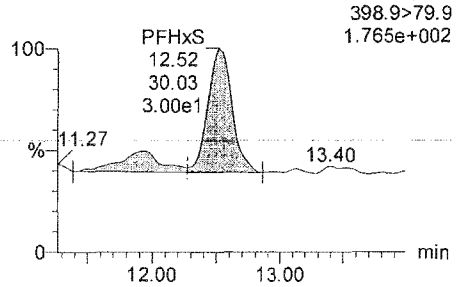
PFBS



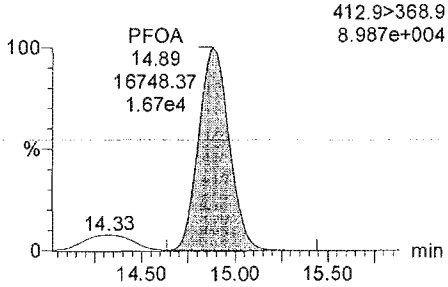
PFHpA



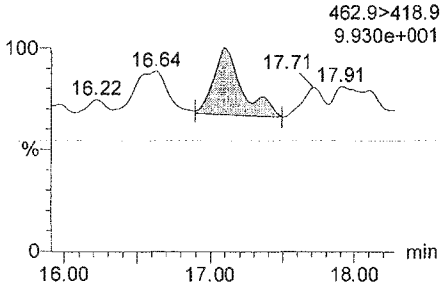
PFHxS



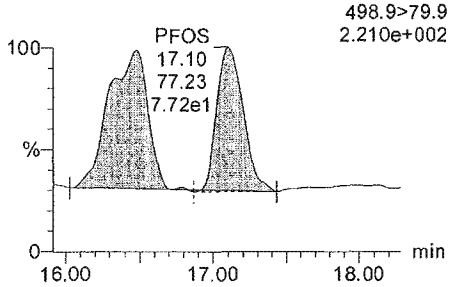
PFOA



PFNA



PFOS



UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185882, Date: 15-Feb-2015, Time: 01:30:23, ID: 3185882, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2281.06		0.970	49.529468	102.1	bb			
2	IS-13C4-PFOS	17.10	2471.76		0.970	102.792372	106.0	bb			
3	SS-13C2-PFHxA	9.21	2292.58	1	0.970	50.456083	104.0	bb			
4	SS-13C2-PFDA	18.96	1444.70	1	0.970	93.970191	96.9	bb			
5	PFBS	6.46	36.81	2	0.970	1.091428		bb			
6	PFHpA	12.29	321.41	1	0.970	14.139648		bb			
7	PFHxS	12.52	30.03	2	0.970	0.815029		MM	SP-CM	16-Feb-15	13:30:00
8	PFOA *	14.89	16748.37	1	0.970	502.055719		bb			
9	PFNA	17.10	7.49	1	0.970	0.463827		db			
10	PFOS	17.10	77.23	2	0.970	3.150159		MM	SP-CM	16-Feb-15	13:34:58

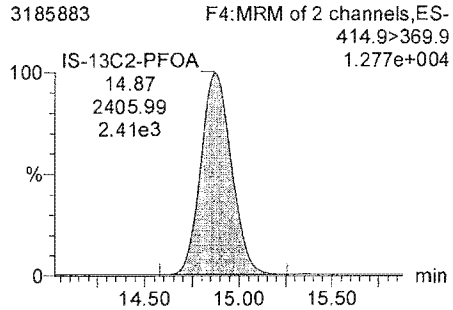
* Report from dilution.
CM
02/16/2015

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

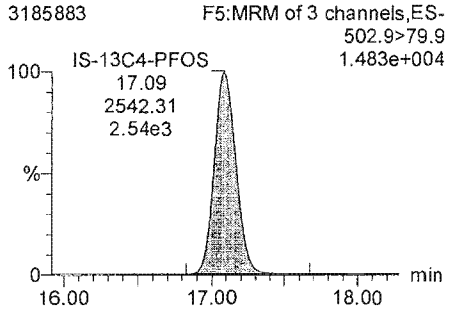
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185882-LFSMH, Date: 15-Feb-2015, Time: 02:01:18, ID: 3185883, Description:

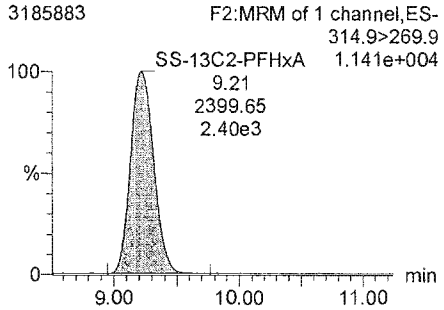
IS-13C2-PFOA



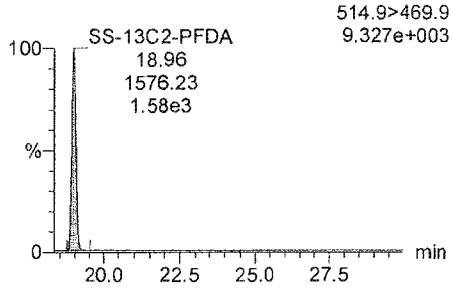
IS-13C4-PFOS



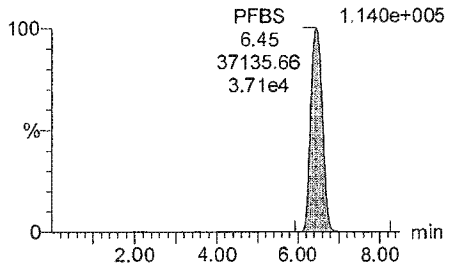
SS-13C2-PFHxA



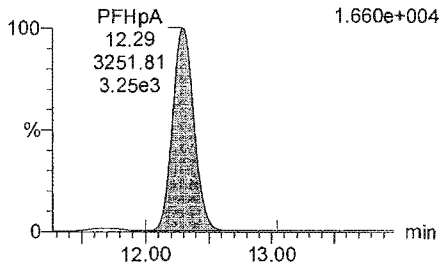
SS-13C2-PFDA



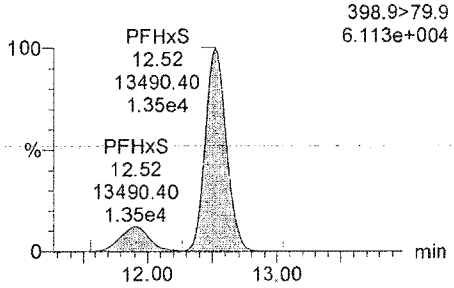
PFBS



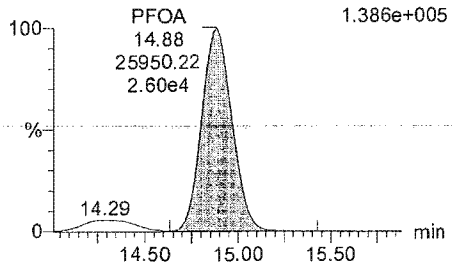
PFHpA



PFHxS



PFOA



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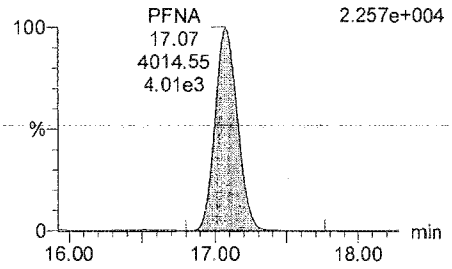
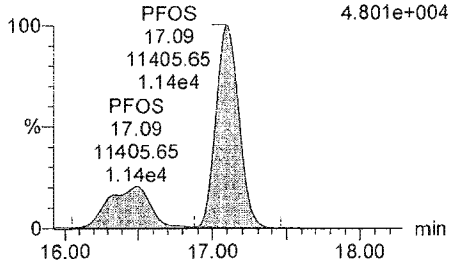


PFOS



Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185882-LFSMH, Date: 15-Feb-2015, Time: 02:01:18, ID: 3185883, Description:

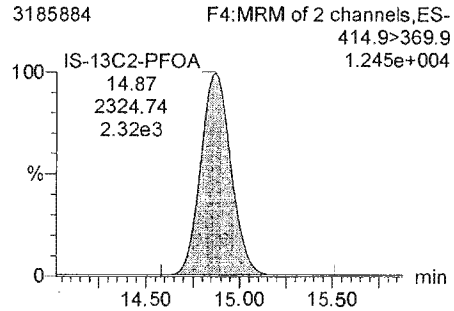
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2405.99		1.000	53.857787	107.7	bb			
2	IS-13C4-PFOS	17.09	2542.31		1.000	108.995896	109.0	bb			
3	SS-13C2-PFHxA	9.21	2399.65	1	1.000	51.618817	103.2	bb			
4	SS-13C2-PFDA	18.96	1576.23	1	1.000	100.208282	100.2	bb			
5	PFBS	6.45	37135.66	2	1.000	1103.550603	98.1	bb			
6	PFHpA	12.29	3251.81	1	1.000	139.823445	111.9	bb			
7	PFHxS	12.52	13490.40	2	1.000	366.937587	97.9	MM	SP-CM	16-Feb-15	13:30:19
8	PFOA	14.88	25950.22	1	1.000	760.312412	304.1	bb			
9	PFNA	17.07	4014.55	1	1.000	243.149118	97.3	bb			
10	PFOS	17.09	11405.65	2	1.000	466.309113	93.3	MM	SP-CM	16-Feb-15	13:35:03

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

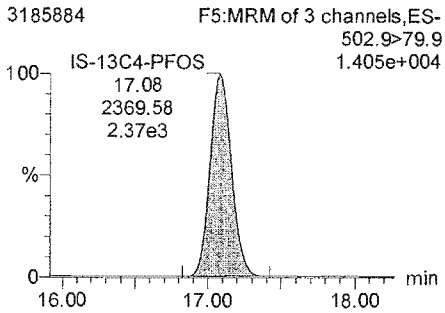
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185882-LFSMDH, Date: 15-Feb-2015, Time: 02:32:13, ID: 3185884, Description:

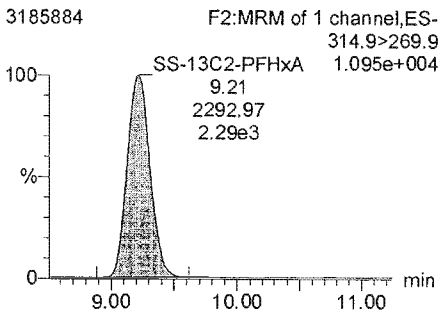
IS-13C2-PFOA



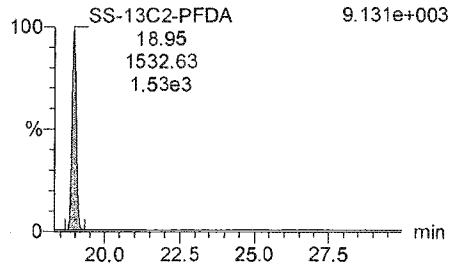
IS-13C4-PFOS



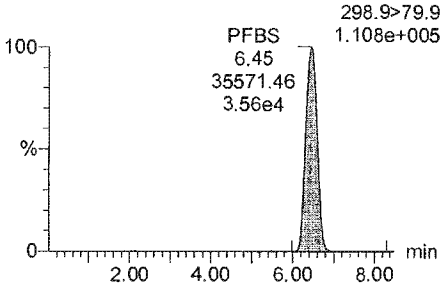
SS-13C2-PFHxA



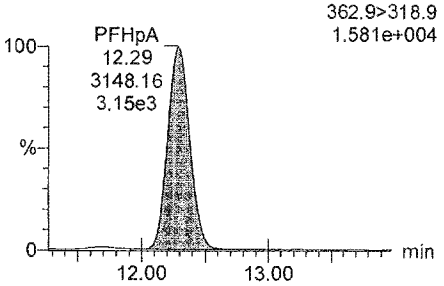
SS-13C2-PFDA



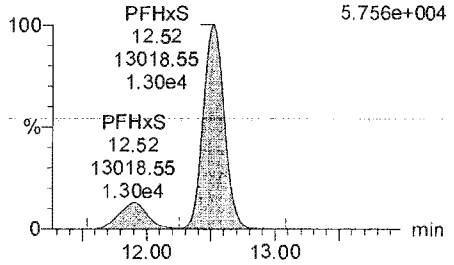
PFBS



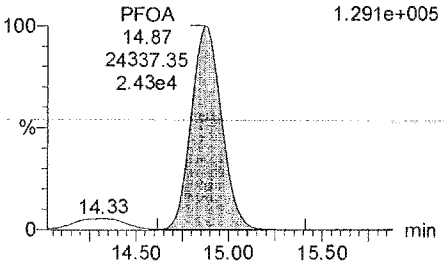
PFHpA



PFHxS



PFOA



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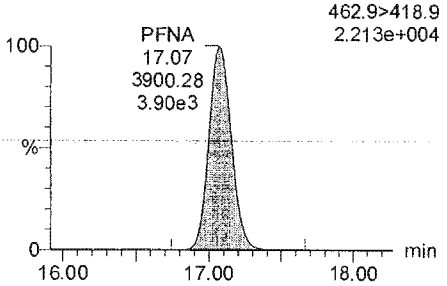
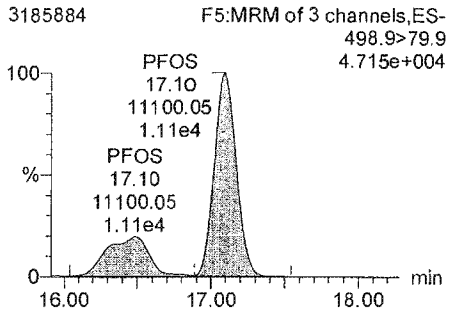


PFOS



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Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: 3185882-LFSMDH, Date: 15-Feb-2015, Time: 02:32:13, ID: 3185884, Description:

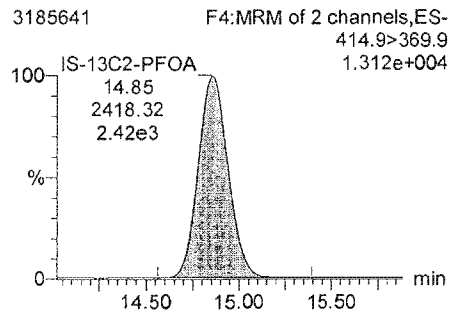
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2324.74		1.000	52.039125	104.1	bb			
2	IS-13C4-PFOS	17.08	2369.58		1.000	101.590600	101.6	bb			
3	SS-13C2-PFHxA	9.21	2292.97	1	1.000	51.047713	102.1	bb			
4	SS-13C2-PFDA	18.95	1532.63	1	1.000	100.841574	100.8	bb			
5	PFBS	6.45	35571.46	2	1.000	1134.120840	100.8	bb			
6	PFHpA	12.29	3148.16	1	1.000	140.097513	112.1	dd			
7	PFHxS	12.52	13018.55	2	1.000	379.915004	101.3	MM	SP-CM	16-Feb-15	13:30:24
8	PFOA	14.87	24337.35	1	1.000	737.976995	295.2	bb			
9	PFNA	17.07	3900.28	1	1.000	244.484193	97.8	db			
10	PFOS	17.10	11100.05	2	1.000	486.894809	97.4	MM	SP-CM	16-Feb-15	13:35:09

Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

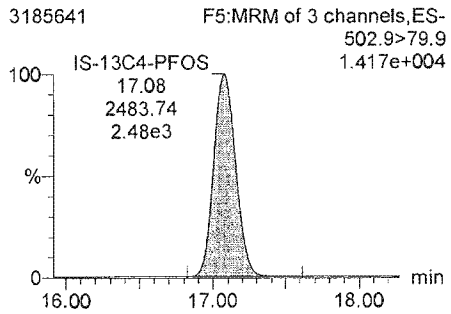
Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: CCM-75-A2, Date: 15-Feb-2015, Time: 03:03:01, ID: 3185641, Description:

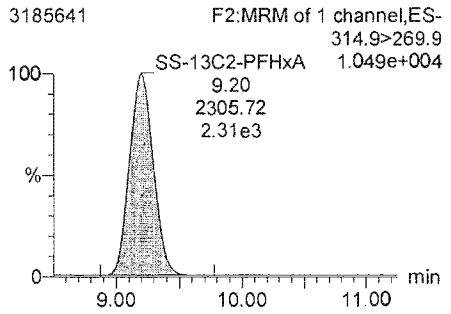
IS-13C2-PFOA



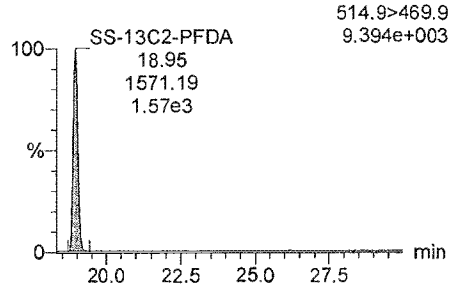
IS-13C4-PFOS



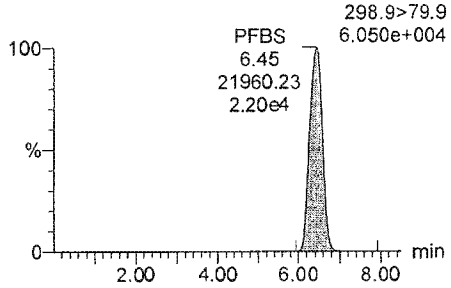
SS-13C2-PFHxA



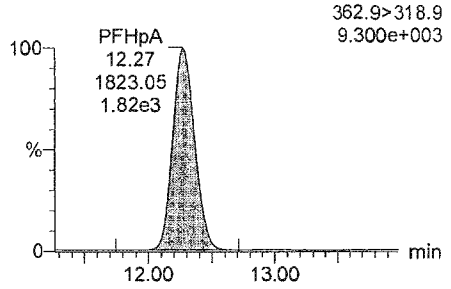
SS-13C2-PFDA



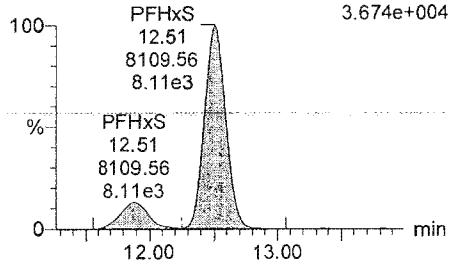
PFBS



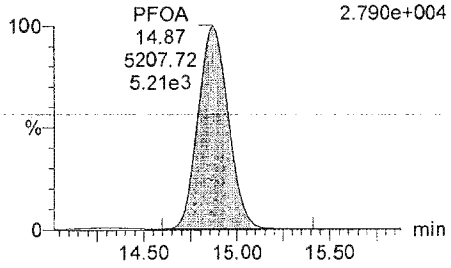
PFHpA



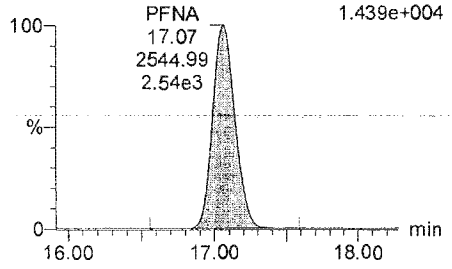
PFHxS



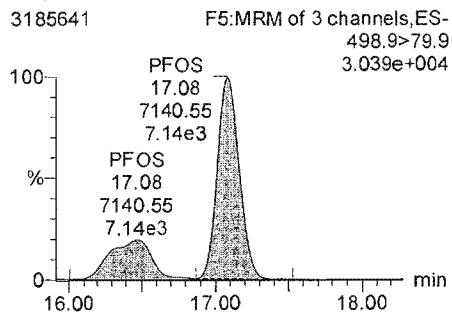
PFOA



PFNA



PFOS



Dataset: C:\CY\537\021415M537a.pro\021415M537a.qld

Last Altered: Monday, February 16, 2015 13:35:16 Eastern Standard Time
Printed: Monday, February 16, 2015 13:36:18 Eastern Standard Time

Name: CCM-75-A2, Date: 15-Feb-2015, Time: 03:03:01, ID: 3185641, Description:

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1	IS-13C2-PFOA	14.85	2418.32		1.000	54.133793	108.3	bb			
2	IS-13C4-PFOS	17.08	2483.74		1.000	106.484963	106.5	bb			
3	SS-13C2-PFHxA	9.20	2305.72	1	1.000	49.345303	98.7	bb			
4	SS-13C2-PFDA	18.95	1571.19	1	1.000	99.378326	99.4	bb			
5	PFBS	6.45	21960.23	2	1.000	667.974379	99.0	bd			
6	PFHpA	12.27	1823.05	1	1.000	77.988873	104.0	db			
7	PFHxS	12.51	8109.56	2	1.000	225.780567	100.3	MM	SP-CM	16-Feb-15	13:30:29
8	PFOA	14.87	5207.72	1	1.000	151.802326	101.2	bb			
9	PFNA	17.07	2544.99	1	1.000	153.356789	102.2	bb			
10	PFOS	17.08	7140.55	2	1.000	298.818441	99.6	MM	SP-CM	16-Feb-15	13:35:15

Dataset: Untitled

Last Altered: Monday, February 16, 2015 13:37:07 Eastern Standard Time
Printed: Monday, February 16, 2015 13:37:18 Eastern Standard Time

Method: C:\CY\537\021415M537a.pro\MethDB\021415M537a.mdb 05 Feb 2015 07:55:25
Calibration: 16 Feb 2015 13:37:07

Name: LIB-A2, Date: 14-Feb-2015, Time: 09:32:11, ID: 3187139, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.94	2253.47		1.000	50.443775	100.9	bb			
2	IS-13C4-PFOS	17.15	2357.85		1.000	101.087659	101.1	bb			
3	SS-13C2-PFHxA	9.28	2130.10	1	1.000	48.921649	97.8	bb			
4	SS-13C2-PFDA	19.01	1410.18	1	1.000	95.718852	95.7	bb			
5	PFBS			2	1.000						
6	PFHpA	12.25	1.63	1	1.000	0.074831		bb			
7	PFHxS	13.49	1.11	2	1.000	0.038342		bb			
8	PFOA	14.94	1.96	1	1.000	0.061406		bd			
9	PFNA	16.61	4.00	1	1.000	0.258600		bb			
10	PFOS	17.80	2.82	2	1.000	0.170909		bb			

Name: I-10-A2, Date: 14-Feb-2015, Time: 10:03:07, ID: 3187144, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2154.09		1.000	48.219229	96.4	bb			
2	IS-13C4-PFOS	17.15	2256.22		1.000	96.730408	96.7	bb			
3	SS-13C2-PFHxA	9.27	2024.18	1	1.000	48.633607	97.3	bb			
4	SS-13C2-PFDA	19.01	1360.39	1	1.000	96.599509	96.6	bb			
5	PFBS	6.50	2720.09	2	1.000	91.081903	101.2	bb			
6	PFHpA	12.36	226.42	1	1.000	10.874265	108.7	bd			
7	PFHxS	12.58	858.77	2	1.000	30.944116	103.1	bb			
8	PFOA	14.94	627.10	1	1.000	20.521668	102.6	bb			
9	PFNA	17.13	327.30	1	1.000	22.141750	110.7	bd			
10	PFOS	17.15	658.34	2	1.000	41.711631	104.3	bb			

Name: I-25-A2, Date: 14-Feb-2015, Time: 10:34:02, ID: 3187145, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2279.40		1.000	51.024148	102.0	bb			
2	IS-13C4-PFOS	17.14	2400.11		1.000	102.899336	102.9	bb			
3	SS-13C2-PFHxA	9.27	2174.37	1	1.000	49.370253	98.7	bb			
4	SS-13C2-PFDA	19.01	1459.14	1	1.000	97.915700	97.9	bb			
5	PFBS	6.50	6968.30	2	1.000	219.343948	97.5	bb			
6	PFHpA	12.34	552.62	1	1.000	25.081683	100.3	dd			
7	PFHxS	12.57	2231.60	2	1.000	75.590272	100.8	bb			
8	PFOA	14.94	1552.68	1	1.000	48.018283	96.0	db			
9	PFNA	17.13	761.02	1	1.000	48.652566	97.3	bb			
10	PFOS	17.14	1641.11	2	1.000	97.744522	97.7	bb			

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Name: I-50-A2, Date: 14-Feb-2015, Time: 11:04:57, ID: 3187146, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.94	2163.18		1.000	48.422506	96.8	bb			
2	IS-13C4-PFOS	17.14	2233.96		1.000	95.776316	95.8	bb			
3	SS-13C2-PFHxA	9.27	2074.89	1	1.000	49.642730	99.3	bb			
4	SS-13C2-PFDA	19.01	1383.63	1	1.000	97.837298	97.8	bb			
5	PFBS	6.51	13099.95	2	1.000	443.019302	98.4	bb			
6	PFHpA	12.34	1030.18	1	1.000	49.268355	98.5	db			
7	PFHxS	12.57	4132.85	2	1.000	150.402104	100.3	bb			
8	PFOA	14.94	2998.98	1	1.000	97.729484	97.7	bb			
9	PFNA	17.13	1445.86	1	1.000	97.400896	97.4	bb			
10	PFOS	17.16	3083.01	2	1.000	197.280760	98.6	bb			

Name: I-75-A2, Date: 14-Feb-2015, Time: 11:35:53, ID: 3187147, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2257.10		1.000	50.525054	101.1	bb			
2	IS-13C4-PFOS	17.14	2351.91		1.000	100.833037	100.8	bb			
3	SS-13C2-PFHxA	9.27	2179.67	1	1.000	49.979514	100.0	bb			
4	SS-13C2-PFDA	19.01	1487.63	1	1.000	100.813975	100.8	bb			
5	PFBS	6.50	21464.97	2	1.000	689.507032	102.1	bb			
6	PFHpA	12.34	1648.06	1	1.000	75.538735	100.7	bb			
7	PFHxS	12.58	6592.20	2	1.000	227.871583	101.3	bb			
8	PFOA	14.94	4895.94	1	1.000	152.907693	101.9	bb			
9	PFNA	17.13	2402.68	1	1.000	155.122352	103.4	db			
10	PFOS	17.14	5038.72	2	1.000	306.257048	102.1	bb			

Name: I-100-A2, Date: 14-Feb-2015, Time: 12:06:48, ID: 3187148, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2264.10		1.000	50.681771	101.4	bb			
2	IS-13C4-PFOS	17.13	2358.47		1.000	101.114498	101.1	bb			
3	SS-13C2-PFHxA	9.26	2191.34	1	1.000	50.091847	100.2	bb			
4	SS-13C2-PFDA	19.01	1504.75	1	1.000	101.658436	101.7	bb			
5	PFBS	6.50	28207.12	2	1.000	903.559043	100.4	bb			
6	PFHpA	12.34	2194.10	1	1.000	100.255660	100.3	bd			
7	PFHxS	12.56	8689.88	2	1.000	299.545750	99.8	bb			
8	PFOA	14.92	6480.41	1	1.000	201.767166	100.9	bb			
9	PFNA	17.11	3121.21	1	1.000	200.888708	100.4	bb			
10	PFOS	17.15	6743.60	2	1.000	408.739690	102.2	bb			

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Name: I-125-A2, Date: 14-Feb-2015, Time: 12:37:44, ID: 3187149, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2302.71		1.000	51.545963	103.1	bb			
2	IS-13C4-PFOS	17.13	2449.96		1.000	105.036676	105.0	bb			
3	SS-13C2-PFHxA	9.26	2292.55	1	1.000	51.526735	103.1	bb			
4	SS-13C2-PFDA	19.00	1576.46	1	1.000	104.717545	104.7	bb			
5	PFBS	6.50	36340.78	2	1.000	1120.635799	99.6	bb			
6	PFHpA	12.34	2795.05	1	1.000	125.573526	100.5	bb			
7	PFHxS	12.56	11334.55	2	1.000	376.119718	100.3	bb			
8	PFOA	14.92	8320.80	1	1.000	254.723967	101.9	bb			
9	PFNA	17.11	4022.54	1	1.000	254.560439	101.8	bb			
10	PFOS	17.15	8479.56	2	1.000	494.767524	99.0	bb			

Name: I-150-A2, Date: 14-Feb-2015, Time: 13:08:39, ID: 3187150, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2214.94		1.000	49.581329	99.2	bb			
2	IS-13C4-PFOS	17.15	2276.73		1.000	97.609729	97.6	bb			
3	SS-13C2-PFHxA	9.27	2172.16	1	1.000	50.755314	101.5	bb			
4	SS-13C2-PFDA	19.01	1454.69	1	1.000	100.457538	100.5	bb			
5	PFBS	6.50	40618.55	2	1.000	1347.852973	99.8	bb			
6	PFHpA	12.34	3177.40	1	1.000	148.407777	98.9	bb			
7	PFHxS	12.58	12448.82	2	1.000	444.526458	98.8	bb			
8	PFOA	14.94	9248.17	1	1.000	294.331738	98.1	bd			
9	PFNA	17.13	4426.64	1	1.000	291.233289	97.1	db			
10	PFOS	17.15	9452.45	2	1.000	593.498826	98.9	bb			

Name: LIB-B2, Date: 14-Feb-2015, Time: 13:39:36, ID: 3187140, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.91	2416.26		1.000	54.087680	108.2	bb			
2	IS-13C4-PFOS	17.13	2461.77		1.000	105.543175	105.5	bb			
3	SS-13C2-PFHxA	9.27	2219.41	1	1.000	47.538653	95.1	bb			
4	SS-13C2-PFDA	19.01	1542.40	1	1.000	97.640332	97.6	bb			
5	PFBS			2	1.000						
6	PFHpA	12.14	2.84	1	1.000	0.121597		bb			
7	PFHxS	11.46	1.07	2	1.000	0.035435		bb			
8	PFOA	14.97	4.70	1	1.000	0.137149		bb			
9	PFNA	18.17	6.46	1	1.000	0.389902		bb			
10	PFOS	17.16	3.20	2	1.000	0.185644		bd			

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Name: CCL-10-A2, Date: 14-Feb-2015, Time: 14:10:31, ID: 3187154, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.90	2285.15		1.000	51.152839	102.3	bb			
2	IS-13C4-PFOS	17.13	2349.79		1.000	100.742233	100.7	bb			
3	SS-13C2-PFHxA	9.26	2156.46	1	1.000	48.840413	97.7	bb			
4	SS-13C2-PFDA	18.99	1372.73	1	1.000	91.885665	91.9	bb			
5	PFBS	6.50	2832.50	2	1.000	91.068787	101.2	bb			
6	PFHpA	12.32	225.15	1	1.000	10.193131	101.9	bd			
7	PFHxS	12.56	883.85	2	1.000	30.579349	101.9	bb			
8	PFOA	14.92	675.11	1	1.000	20.825837	104.1	bb			
9	PFNA	17.11	323.56	1	1.000	20.633360	103.2	bb			
10	PFOS	17.14	685.63	2	1.000	41.710946	104.3	bb			

Name: UQCM-75-A2, Date: 14-Feb-2015, Time: 14:41:26, ID: 3187151, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2291.91		1.000	51.304228	102.6	bb			
2	IS-13C4-PFOS	17.14	2310.26		1.000	99.047470	99.0	bb			
3	SS-13C2-PFHxA	9.26	2204.80	1	1.000	49.787935	99.6	bb			
4	SS-13C2-PFDA	19.01	1476.61	1	1.000	98.546818	98.5	bb			
5	PFBS	6.50	17737.73	2	1.000	580.050635	85.9	bb			
6	PFHpA	12.34	1619.32	1	1.000	73.093988	97.5	bd			
7	PFHxS	12.56	6151.54	2	1.000	216.472686	96.2	bb			
8	PFOA	14.94	4703.32	1	1.000	144.660864	96.4	bb			
9	PFNA	17.13	2254.68	1	1.000	143.356058	95.6	bb			
10	PFOS	17.14	5433.82	2	1.000	336.225132	112.1	bb			

Name: LIB-C2, Date: 14-Feb-2015, Time: 15:12:22, ID: 3187141, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2422.48		1.000	54.227049	108.5	bb			
2	IS-13C4-PFOS	17.13	2529.63		1.000	108.452397	108.5	bb			
3	SS-13C2-PFHxA	9.26	2328.47	1	1.000	49.746549	99.5	bb			
4	SS-13C2-PFDA	19.01	1572.14	1	1.000	99.267218	99.3	bb			
5	PFBS			2	1.000						
6	PFHpA	12.71	1.98	1	1.000	0.084728		bb			
7	PFHxS	12.13	1.05	2	1.000	0.033842		bb			
8	PFOA	15.11	5.71	1	1.000	0.166157		bb			
9	PFNA	17.30	1.33	1	1.000	0.080126		db			
10	PFOS	17.24	2.02	2	1.000	0.114038		bb			

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Name: LRB-A2, Date: 14-Feb-2015, Time: 15:43:17, ID: 3187132, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2406.99		1.000	53.880306	107.8	bb			
2	IS-13C4-PFOS	17.13	2486.36		1.000	106.597504	106.6	bb			
3	SS-13C2-PFHxA	9.26	2175.56	1	1.000	46.778779	93.6	bb			
4	SS-13C2-PFDA	18.99	1534.83	1	1.000	97.535389	97.5	bb			
5	PFBS			2	1.000						
6	PFHpA	12.25	4.92	1	1.000	0.211680		bd			
7	PFHxS	12.52	5.84	2	1.000	0.190987		bd			
8	PFOA	14.89	6.58	1	1.000	0.192589		bd			
9	PFNA	16.91	2.35	1	1.000	0.142152		db			
10	PFOS	17.47	1.81	2	1.000	0.104351		bb			

Name: FBL-10-A2, Date: 14-Feb-2015, Time: 16:14:13, ID: 3187137, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.90	2472.42		1.000	55.344906	110.7	bb			
2	IS-13C4-PFOS	17.13	2530.08		1.000	108.471604	108.5	bb			
3	SS-13C2-PFHxA	9.24	2319.09	1	1.000	48.545458	97.1	bb			
4	SS-13C2-PFDA	18.99	1593.54	1	1.000	98.586587	98.6	bb			
5	PFBS	6.48	3176.73	2	1.000	94.858413	105.4	bb			
6	PFHpA	12.32	242.37	1	1.000	10.141684	101.4	bd			
7	PFHxS	12.56	986.28	2	1.000	31.691862	105.6	bb			
8	PFOA	14.90	718.12	1	1.000	20.474823	102.4	bb			
9	PFNA	17.10	359.86	1	1.000	21.210242	106.1	bb			
10	PFOS	17.13	758.33	2	1.000	42.845882	107.1	bb			

Name: FBH-125-A2, Date: 14-Feb-2015, Time: 16:45:09, ID: 3187138, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.90	2374.62		1.000	53.155617	106.3	bb			
2	IS-13C4-PFOS	17.11	2529.70		1.000	108.455312	108.5	bb			
3	SS-13C2-PFHxA	9.24	2320.36	1	1.000	50.572420	101.1	bb			
4	SS-13C2-PFDA	18.98	1674.70	1	1.000	107.874944	107.9	bb			
5	PFBS	6.47	36445.48	2	1.000	1088.438796	96.8	bb			
6	PFHpA	12.32	2804.61	1	1.000	122.187285	97.7	bb			
7	PFHxS	12.54	11247.83	2	1.000	361.477028	96.4	bb			
8	PFOA	14.90	8378.57	1	1.000	248.725420	99.5	bb			
9	PFNA	17.10	4065.05	1	1.000	249.460146	99.8	db			
10	PFOS	17.13	8677.53	2	1.000	490.358633	98.1	bb			

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Name: LIB-D2, Date: 14-Feb-2015, Time: 17:16:05, ID: 3187142, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	2510.87		1.000	56.205673	112.4	bb			
2	IS-13C4-PFOS	17.11	2604.24		1.000	111.651182	111.7	bb			
3	SS-13C2-PFHxA	9.24	2394.83	1	1.000	49.363248	98.7	bb			
4	SS-13C2-PFDA	18.98	1608.88	1	1.000	98.010902	98.0	bb			
5	PFBS			2	1.000						
6	PFHpA	12.25	1.92	1	1.000	0.079191		bd			
7	PFHxS	12.54	3.08	2	1.000	0.096244		dd			
8	PFOA			1	1.000						
9	PFNA			1	1.000						
10	PFOS	16.99	2.56	2	1.000	0.140467		bb			

Name: 3185727, Date: 14-Feb-2015, Time: 17:47:00, ID: 3185727, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	2387.38		0.980	52.372533	106.9	bb			
2	IS-13C4-PFOS	17.10	2441.20		0.980	102.567719	104.7	bb			
3	SS-13C2-PFHxA	9.23	2191.29	1	0.980	46.553903	95.0	bb			
4	SS-13C2-PFDA	18.98	1459.35	1	0.980	91.630061	93.5	bb			
5	PFBS			2	0.980						
6	PFHpA	12.44	2.89	1	0.980	0.122900		dd			
7	PFHxS			2	0.980						
8	PFOA	14.95	5.32	1	0.980	0.153885		bb			
9	PFNA	17.47	4.67	1	0.980	0.279112		bb			
10	PFOS	17.17	4.30	2	0.980	0.246533		db			

Name: 3185880, Date: 14-Feb-2015, Time: 18:17:48, ID: 3185880, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	2136.36		0.990	47.343899	95.6	bb			
2	IS-13C4-PFOS	17.10	2317.05		0.990	98.345148	99.3	bb			
3	SS-13C2-PFHxA	9.22	2044.48	1	0.990	49.034138	99.1	bb			
4	SS-13C2-PFDA	18.98	1377.92	1	0.990	97.670350	98.7	bb			
5	PFBS	6.50	2.27	2	0.990	0.073339		bb			
6	PFHpA	12.29	4.51	1	0.990	0.216024		db			
7	PFHxS			2	0.990						
8	PFOA	14.89	4.92	1	0.990	0.160622		bb			
9	PFNA	16.88	8.39	1	0.990	0.566299		dd			
10	PFOS	17.34	5.22	2	0.990	0.319133		bb			

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Name: 3185886, Date: 14-Feb-2015, Time: 18:48:43, ID: 3185886, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	2322.54		0.990	51.469913	104.0	bb			
2	IS-13C4-PFOS	17.10	2409.68		0.990	102.276618	103.3	bb			
3	SS-13C2-PFHxA	9.22	2172.29	1	0.990	47.922981	96.8	bb			
4	SS-13C2-PFDA	18.96	1519.71	1	0.990	99.085533	100.1	bb			
5	PFBS			2	0.990						
6	PFHpA	11.80	1.46	1	0.990	0.064207		bb			
7	PFHxS	12.71	5.54	2	0.990	0.185207		bd			
8	PFOA	14.85	4.52	1	0.990	0.135697		bb			
9	PFNA	17.33	1.90	1	0.990	0.118268		bb			
10	PFOS	16.84	6.96	2	0.990	0.408881		bb			

Name: 3185722, Date: 14-Feb-2015, Time: 19:19:39, ID: 3185722, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2341.92		1.050	55.044765	104.8	bb			
2	IS-13C4-PFOS	17.10	2444.95		1.050	110.063067	104.8	bb			
3	SS-13C2-PFHxA	9.21	2225.50	1	1.050	51.641545	98.4	bb			
4	SS-13C2-PFDA	18.96	1477.81	1	1.050	101.347056	96.5	bb			
5	PFBS	6.48	17.88	2	1.050	0.579955		bb			
6	PFHpA	12.30	50.50	1	1.050	2.342288		db			
7	PFHxS	12.52	17.34	2	1.050	0.605409		bb			
8	PFOA	14.89	4678.21	1	1.050	147.856934		bb			
9	PFNA	17.10	8.61	1	1.050	0.562536		dd			
10	PFOS	17.10	184.83	2	1.050	11.346922		bb			

Name: 3185724, Date: 14-Feb-2015, Time: 19:50:35, ID: 3185724, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2332.89		0.940	49.088331	104.4	bb			
2	IS-13C4-PFOS	17.10	2535.33		0.940	102.175127	108.7	bb			
3	SS-13C2-PFHxA	9.21	2279.04	1	0.940	47.526805	101.1	bb			
4	SS-13C2-PFDA	18.96	1507.71	1	0.940	92.923494	98.9	bb			
5	PFBS	6.45	37.73	2	0.940	1.056782		bb			
6	PFHpA	12.29	319.51	1	0.940	13.318933		bd			
7	PFHxS	12.52	32.48	2	0.940	0.978985		bb			
8	PFOA	14.89	17385.42	1	0.940	493.812600		bd			
9	PFNA	17.11	8.87	1	0.940	0.520701		bb			
10	PFOS	17.11	47.41	2	0.940	2.512855		bb			

Dataset: Untitled

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Name: 3185728, Date: 14-Feb-2015, Time: 20:21:30, ID: 3185728, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.90	2396.77		1.060	56.870530	107.3	bb			
2	IS-13C4-PFOS	17.11	2422.78		1.060	110.103494	103.9	bb			
3	SS-13C2-PFHxA	9.23	2192.53	1	1.060	50.185594	94.7	bb			
4	SS-13C2-PFDA	18.99	1438.89	1	1.060	97.338509	91.8	bb			
5	PFBS	6.42	16.03	2	1.060	0.529787		bb			
6	PFHpA	12.30	51.45	1	1.060	2.354083		bd			
7	PFHxS	12.54	19.38	2	1.060	0.689223		bb			
8	PFOA	14.90	4844.32	1	1.060	151.027948		bb			
9	PFNA	17.19	11.93	1	1.060	0.768993		dd			
10	PFOS	17.13	168.16	2	1.060	10.517182		bb			

Name: 3185729, Date: 14-Feb-2015, Time: 20:52:26, ID: 3185729, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	2315.25		0.930	48.198720	103.7	bb			
2	IS-13C4-PFOS	17.11	2487.56		0.930	99.183166	106.6	bb			
3	SS-13C2-PFHxA	9.25	2285.20	1	0.930	47.507620	102.2	bb			
4	SS-13C2-PFDA	18.98	1475.62	1	0.930	90.664555	97.5	bb			
5	PFBS	6.49	24.42	2	0.930	0.689654		bb			
6	PFHpA	12.32	211.77	1	0.930	8.800234		bb			
7	PFHxS	12.54	29.31	2	0.930	0.890945		bb			
8	PFOA	14.90	13750.55	1	0.930	389.358772		bb			
9	PFNA	17.10	15.67	1	0.930	0.917477		db			
10	PFOS	17.11	154.76	2	0.930	8.270734		bb			

Name: 3185723, Date: 14-Feb-2015, Time: 21:23:22, ID: 3185723, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	2491.38		0.950	52.980879	111.5	bb			
2	IS-13C4-PFOS	17.10	2663.95		0.950	108.500725	114.2	bb			
3	SS-13C2-PFHxA	9.23	2470.74	1	0.950	48.759906	102.7	bb			
4	SS-13C2-PFDA	18.96	1613.76	1	0.950	94.123577	99.1	bb			
5	PFBS	6.47	41.97	2	0.950	1.130799		bb			
6	PFHpA	12.30	350.00	1	0.950	13.806929		bb			
7	PFHxS	12.54	24.95	2	0.950	0.723320		bb			
8	PFOA	14.89	18871.24	1	0.950	507.257087		bb			
9	PFNA	17.08	9.50	1	0.950	0.527770		db			
10	PFOS	17.11	39.46	2	0.950	2.011645		bb			

Dataset: Untitled

Last Altered: Monday, February 16, 2015 13:37:07 Eastern Standard Time
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Name: 3185723-LFSMH, Date: 14-Feb-2015, Time: 21:54:17, ID: 3185725, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	2360.81		1.000	52.846459	105.7	bb			
2	IS-13C4-PFOS	17.10	2487.03		1.000	106.626229	106.6	bb			
3	SS-13C2-PFHxA	9.24	2260.43	1	1.000	49.554474	99.1	bb			
4	SS-13C2-PFDA	18.96	1478.13	1	1.000	95.769709	95.8	bb			
5	PFBS	6.46	35202.75	2	1.000	1069.359414	95.1	bb			
6	PFHpA	12.30	3139.68	1	1.000	137.585420	110.1	bb			
7	PFHxS	12.52	10953.39	2	1.000	358.053046	95.5	bb			
8	PFOA	14.89	24793.59	1	1.000	740.326250	296.1	bb			
9	PFNA	17.08	3877.34	1	1.000	239.333463	95.7	bd			
10	PFOS	17.10	8068.04	2	1.000	463.738166	92.7	bb			

Name: 3185723-LFSMDH, Date: 14-Feb-2015, Time: 22:25:13, ID: 3185726, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	2325.85		1.000	52.064017	104.1	bb			
2	IS-13C4-PFOS	17.10	2450.36		1.000	105.053868	105.1	bb			
3	SS-13C2-PFHxA	9.23	2265.63	1	1.000	50.415068	100.8	bb			
4	SS-13C2-PFDA	18.96	1463.69	1	1.000	96.259402	96.3	bb			
5	PFBS	6.47	35991.83	2	1.000	1109.693675	98.6	bb			
6	PFHpA	12.30	3109.47	1	1.000	138.309552	110.6	bd			
7	PFHxS	12.52	11193.96	2	1.000	371.393468	99.0	bb			
8	PFOA	14.89	24020.27	1	1.000	728.014153	291.2	bb			
9	PFNA	17.08	4048.66	1	1.000	253.663808	101.5	db			
10	PFOS	17.10	8192.70	2	1.000	477.951114	95.6	bb			

Name: LIB-E2, Date: 14-Feb-2015, Time: 22:56:08, ID: 3185631, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2561.56		1.000	57.340387	114.7	bb			
2	IS-13C4-PFOS	17.08	2601.57		1.000	111.536582	111.5	bb			
3	SS-13C2-PFHxA	9.22	2322.01	1	1.000	46.915043	93.8	bb			
4	SS-13C2-PFDA	18.95	1567.93	1	1.000	93.625979	93.6	bb			
5	PFBS			2	1.000						
6	PFHpA	12.76	5.50	1	1.000	0.222129		bd			
7	PFHxS			2	1.000						
8	PFOA	14.92	1.03	1	1.000	0.028428		bb			
9	PFNA	17.05	2.62	1	1.000	0.149105		bb			
10	PFOS	17.11	2.29	2	1.000	0.125831		bd			

Dataset: Untitled

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Name: 3185881, Date: 14-Feb-2015, Time: 23:26:55, ID: 3185881, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2394.17		1.000	53.593220	107.2	bb			
2	IS-13C4-PFOS	17.08	2589.32		1.000	111.011562	111.0	bb			
3	SS-13C2-PFHxA	9.22	2381.06	1	1.000	51.471688	102.9	bb			
4	SS-13C2-PFDA	18.95	1544.10	1	1.000	98.649789	98.6	bb			
5	PFBS	6.44	40.69	2	1.000	1.187189		bb			
6	PFHpA	12.29	307.78	1	1.000	13.299417		bd			
7	PFHxS	12.52	28.70	2	1.000	0.901013		bb			
8	PFOA	14.89	16601.77	1	1.000	488.814650		bb			
9	PFNA	17.08	8.20	1	1.000	0.498858		dd			
10	PFOS	17.10	45.32	2	1.000	2.502238		bb			

Name: 3185885, Date: 14-Feb-2015, Time: 23:57:51, ID: 3185885, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2428.50		1.000	54.361761	108.7	bb			
2	IS-13C4-PFOS	17.08	2583.01		1.000	110.741120	110.7	bb			
3	SS-13C2-PFHxA	9.21	2295.38	1	1.000	48.918011	97.8	bb			
4	SS-13C2-PFDA	18.94	1472.02	1	1.000	92.715220	92.7	bb			
5	PFBS	6.44	22.05	2	1.000	0.645015		db			
6	PFHpA	12.29	53.51	1	1.000	2.279315		bb			
7	PFHxS	12.52	21.16	2	1.000	0.665867		dd			
8	PFOA	14.87	5163.86	1	1.000	149.892631		bb			
9	PFNA	17.05	7.21	1	1.000	0.432760		bd			
10	PFOS	17.08	178.26	2	1.000	9.865652		bb			

Name: 3185887, Date: 15-Feb-2015, Time: 00:28:40, ID: 3185887, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	2411.64		0.980	52.904599	108.0	bb			
2	IS-13C4-PFOS	17.10	2452.05		0.980	103.024006	105.1	bb			
3	SS-13C2-PFHxA	9.22	2414.13	1	0.980	50.772397	103.6	bb			
4	SS-13C2-PFDA	18.96	1503.34	1	0.980	93.443315	95.4	bb			
5	PFBS	6.50	19.83	2	0.980	0.598693		bb			
6	PFHpA	12.30	60.66	1	0.980	2.550017		bd			
7	PFHxS	12.54	19.46	2	0.980	0.632359		bb			
8	PFOA	14.89	5064.06	1	0.980	145.063198		bb			
9	PFNA	17.10	9.95	1	0.980	0.589028		bd			
10	PFOS	17.11	187.73	2	0.980	10.725691		bb			

Dataset: Untitled

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Name: 3185888, Date: 15-Feb-2015, Time: 00:59:27, ID: 3185888, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	2315.05		0.970	50.267483	103.6	bb			
2	IS-13C4-PFOS	17.10	2469.77		0.970	102.709448	105.9	bb			
3	SS-13C2-PFHxA	9.23	2343.34	1	0.970	50.815977	104.8	bb			
4	SS-13C2-PFDA	18.96	1477.90	1	0.970	94.718190	97.6	bb			
5	PFBS	6.49	18.69	2	0.970	0.554448		bb			
6	PFHpA	12.30	220.92	1	0.970	9.576193		bb			
7	PFHxS	12.52	24.21	2	0.970	0.772924		bb			
8	PFOA	14.90	13408.10	1	0.970	396.025476		bb			
9	PFNA	17.08	5.49	1	0.970	0.335146		bb			
10	PFOS	17.11	159.10	2	0.970	8.932308		bb			

Name: 3185882, Date: 15-Feb-2015, Time: 01:30:23, ID: 3185882, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2281.06		0.970	49.529468	102.1	bb			
2	IS-13C4-PFOS	17.10	2471.76		0.970	102.792372	106.0	bb			
3	SS-13C2-PFHxA	9.21	2292.58	1	0.970	50.456083	104.0	bb			
4	SS-13C2-PFDA	18.96	1444.70	1	0.970	93.970191	96.9	bb			
5	PFBS	6.46	36.81	2	0.970	1.091428		bb			
6	PFHpA	12.29	321.41	1	0.970	14.139648		bb			
7	PFHxS	12.52	23.09	2	0.970	0.736759		db			
8	PFOA	14.89	16748.37	1	0.970	502.055719		bb			
9	PFNA	17.10	7.49	1	0.970	0.463827		db			
10	PFOS	17.10	32.27	2	0.970	1.810018		bb			

Name: 3185882-LFSMH, Date: 15-Feb-2015, Time: 02:01:18, ID: 3185883, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2405.99		1.000	53.857787	107.7	bb			
2	IS-13C4-PFOS	17.09	2542.31		1.000	108.995896	109.0	bb			
3	SS-13C2-PFHxA	9.21	2399.65	1	1.000	51.618817	103.2	bb			
4	SS-13C2-PFDA	18.96	1576.23	1	1.000	100.208282	100.2	bb			
5	PFBS	6.45	37135.66	2	1.000	1103.550603	98.1	bb			
6	PFHpA	12.29	3251.81	1	1.000	139.823445	111.9	bb			
7	PFHxS	12.52	11441.86	2	1.000	365.888708	97.6	bb			
8	PFOA	14.88	25950.22	1	1.000	760.312412	304.1	bb			
9	PFNA	17.07	4014.55	1	1.000	243.149118	97.3	bb			
10	PFOS	17.09	8264.10	2	1.000	464.679849	92.9	bb			

Dataset: Untitled

Last Altered: Monday, February 16, 2015 13:37:07 Eastern Standard Time
Printed: Monday, February 16, 2015 13:37:18 Eastern Standard Time

Name: 3185882-LFSMDH, Date: 15-Feb-2015, Time: 02:32:13, ID: 3185884, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	2324.74		1.000	52.039125	104.1	bb			
2	IS-13C4-PFOS	17.08	2369.58		1.000	101.590600	101.6	bb			
3	SS-13C2-PFHxA	9.21	2292.97	1	1.000	51.047713	102.1	bb			
4	SS-13C2-PFDA	18.95	1532.63	1	1.000	100.841574	100.8	bb			
5	PFBS	6.45	35571.46	2	1.000	1134.120840	100.8	bb			
6	PFHpA	12.29	3148.16	1	1.000	140.097513	112.1	dd			
7	PFHxS	12.52	10962.40	2	1.000	376.110092	100.3	bb			
8	PFOA	14.87	24337.35	1	1.000	737.976995	295.2	bb			
9	PFNA	17.07	3900.28	1	1.000	244.484193	97.8	db			
10	PFOS	17.10	8084.27	2	1.000	487.703365	97.5	bb			

Name: CCM-75-A2, Date: 15-Feb-2015, Time: 03:03:01, ID: 3185641, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.85	2418.32		1.000	54.133793	108.3	bb			
2	IS-13C4-PFOS	17.08	2483.74		1.000	106.484963	106.5	bb			
3	SS-13C2-PFHxA	9.20	2305.72	1	1.000	49.345303	98.7	bb			
4	SS-13C2-PFDA	18.95	1571.19	1	1.000	99.378326	99.4	bb			
5	PFBS	6.45	21960.23	2	1.000	667.974379	99.0	bd			
6	PFHpA	12.27	1823.05	1	1.000	77.988873	104.0	db			
7	PFHxS	12.51	6975.85	2	1.000	228.334612	101.5	bb			
8	PFOA	14.87	5207.72	1	1.000	151.802326	101.2	bb			
9	PFNA	17.07	2544.99	1	1.000	153.356789	102.2	bb			
10	PFOS	17.08	5180.13	2	1.000	298.140579	99.4	bb			

QC Admin Generic Record

Method: 537 Prep Batch: 47637

SAMPLE NUMBER	QC TYPE
3187919	LIB
20	LIB
21	LIB
22	LIB
3187923	ICL
3187924	ICS
25	ICS
26	ICS
27	ICS
28	ICS
29	ICS
~~3187930~~	~~ICS~~ CM 02/16/2015
3187931	LQCM
3187932	CCL
3187933	CCH

SAMPLE NUMBER	QC TYPE

SP-537 CALIBRATION RECORD

Prep Batch: 47637

Sample Type	Comments
All	96% Methanol in Reagent Water Prep Log #: OP-SOC 91-21C
All	Added 10 uL Internal Standard Substock @ 1.25* ug/mL in 96% Methanol in RW Prep Log #: OP-SOC Exp. Date: 03/13/2015
All	Added 10 uL Surrogate Standard Substock @ 1.25* ug/mL in 96% Methanol in RW Prep Log #: OP-SOC 92-31B Exp. Date: 04/03/2015
ICL/ICS/CCC	537 Mixed Analyte Substock @ 0.25* ug/mL in 96% Methanol in RW Prep Log #: OP-SOC 92-31C Exp. Date: 07/21/2015
	Calibration made at the following concentrations in 1mL 96% Methanol in Reagent Water
10* ng/L	Added 10 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
25* ng/L	Added 25 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
50* ng/L	Added 50 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
75* ng/L	Added 75 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
100* ng/L	Added 100 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
125* ng/L	Added 125 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
150* ng/L	Added 150 uL of 537 Mixed Analyte Substock @ 0.25* ug/mL
UQCM @ 75* ng/L	Mixed QCS Substock @ 0.25* ug/mL in 96% Methanol in RW Prep Log#: OP-SOC 91-74C Exp. Date: 03/13/2015 Prepared at 75* ng/L as noted for the calibration standards
All	Vortex after bringing to volume with 96% Methanol in RW
	*Concentrations are in terms of PFHpA, SS-PFHxA-$^{13}C_2$, or IS-PFOA-$^{13}C_2$

Technician: ALP Date: 02/13/2015

SP-537 EXTRACTION RECORD

Prep Batch: 47636

Sample Type	Comments	Standard 1st Use
ALL	See Logbook printout for procedure start time: See attached logbook printout for samples in batch.	
ALL	Surrogate Standard Substock @ 1.25 ug/mL in terms of PFHxA-$^{13}C_2$ in 96% MeOH in RW Prep Log #: OP-SOC 92-31B Exp. Date: 04/03/2015 10 uL added: Conc: 50 ng/L	☐
LFB, LFSM/LFSMD FBL FBH LFSMH/LFSMDH	537 Mixed Analyte Substock @ 0.25 ug/mL in terms of PFHpA in 96% MeOH in RW Prep Log #: OP-SOC 92-31C Exp. Date: 07/21/2015 10 uL added: Conc: 10 ng/L 125 uL added: Conc: 125 ng/L 125 uL added: Conc: 125 ng/L	☐
ALL	Extracted according to 537 SOP SPE Cartridge MFG: Phenomenex Type: SDB-L Lot #: S214-050 Methanol MFG: Fisher Lot #: 143090 Grade: P&T 96% Methanol in Reagent Water Prep Log #: OP-SOC 91-21C	
ALL	Other reagents: QEC Pre-Preserved Bottles: Tris HCl Lot # 80728 Tris Lot #: 68494 Milli-Q Reagent Water: Date of collection: 02/13/2015	
ALL	Internal Standard Substock @ 1.25 ug/mL in terms of PFOA-$^{13}C_2$ in 96% MeOH in RW Prep Log #: OP-SOC 91-74C Exp. Date: 03/13/2015 10uL added: Conc: 50 ng/L	☐
Observations		

Extraction Technician: AVP Date: 02/13/2015

ED_001342_00001134-00093

SP - ORGANIC EXTRACTION WEIGHT + PRESERVATIVE CHECK RECORD

Method: 537 Batch #:47636 Method Required Volume (mL) : 250

Balance ID: B7

Sample ID	Sample pH(1) Out of range? Yes(Y)/No(N)/ NA	Free Chlorine Residual (1) Present(P)/ Absent(A) / NA	Sample & Cont Wgt (g) (2)	Cont Wgt (g)	Sample Vol extracted (mL) (3)	Correction Factor (4)
3185722	NA	NA	273	36	237	1.05
3185723	NA	NA	298	36	262	0.95
3185724	NA	NA	301	36	265	0.94
3185725	NA	NA	293	35	258	0.97
3185726	NA	NA	283	36	247	1.01
3185727	NA	NA	291	37	254	0.98
3185728	NA	NA	272	36	236	1.06
3185729	NA	NA	305	36	269	0.93
3185880	NA	NA	289	36	253	0.99
3185881	NA	NA	286	35	251	1.00
3185882	NA	NA	293	36	257	0.97
3185883	NA	NA	300	36	264	0.95
3185884	NA	NA	288	35	253	0.99
3185885	NA	NA	287	36	251	1.00
3185886	NA	NA	289	36	253	0.99
3185887	NA	NA	291	37	254	0.98
3185888	NA	NA	293	36	257	0.97
					0	#DIV/0!
LRB	NA	NA	305	36	269	0.93
FBL	NA	NA	298	36	262	0.95
FBH	NA	NA	299	36	263	0.95
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!

(1) Refer to Method Extraction Record for out of range criteria. For all samples with pH outside of acceptable and/or Residual chlorine present, action taken must be documented on Extraction Record.

(2) Sample weight may be determined without container if poured directly in extraction vessel.

(3) Sample volume (mL) = Sample & container weight (g) - container weight (g)

(4) Correction factor = method required volume (mL)/sample volume extracted (mL)

Rounding of the correction factor performed by the Excel Application.

Comments:

Technician: ALP Date: 13-Feb-15

SP - ORGANIC EXTRACTION WEIGHT + PRESERVATIVE CHECK RECORD

Method: 537 Batch #: 47636 Method Required Volume (mL) : 250

Balance ID: B7

Sample ID	Sample pH(1) Out of range? Yes(Y)/No(N)/ NA	Free Chlorine Residual (1) Present(P)/ Absent(A)/ NA	Sample & Cont Wgt (g) (2)	Cont Wgt (g)	Sample Vol extracted (mL) (3)	Correction Factor (4)
3185722	NA	NA	273	36	0	#DIV/0!
5723	NA	NA	298	36	0	#DIV/0!
5724	NA	NA	301	36	0	#DIV/0!
MS 5725	NA	NA	293	35	0	#DIV/0!
MSD 5726	NA	NA	283	36	0	#DIV/0!
5727	NA	NA	291	37	0	#DIV/0!
5728	NA	NA	272	36	0	#DIV/0!
5729	NA	NA	305	36	0	#DIV/0!
5880	NA	NA	289	36	0	#DIV/0!
5881	NA	NA	286	35	0	#DIV/0!
5882	NA	NA	293	36	0	#DIV/0!
5883	NA	NA	300	36	0	#DIV/0!
5884	NA	NA	288	35	0	#DIV/0!
5885	NA	NA	287	36	0	#DIV/0!
5886	NA	NA	289	36	0	#DIV/0!
5887	NA	NA	291	37	0	#DIV/0!
5888	NA	NA	293	36	0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
LRB	NA	NA	305	36	0	#DIV/0!
FBL	NA	NA	298	36	0	#DIV/0!
FBH	NA	NA	299	36	0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!
					0	#DIV/0!

(1) Refer to Method Extraction Record for out of range criteria. For all samples with pH outside of acceptable and/or Residual chlorine present, action taken must be documented on Extraction Record.
(2) Sample weight may be determined without container if poured directly in extraction vessel.
(3) Sample volume (mL) = Sample & container weight (g) - container weight (g)
(4) Correction factor = method required volume (mL)/sample volume extracted (mL)
Rounding of the correction factor performed by the Excel Application.

Comments:

Technician: AKP Date: 02/13/2015

LIMSRequest Main Exit

RPD Calculation (Area/Response)

Separate by Colon

Enter two sample IDs and RPD limit as in: sample1, sample2, RPD limit

Arguments

3187924, 3187927, 20

submit

RPD Calculation for Method 537, Maximum RPD = 20.0.
Sample 1: 3187924 (RID 199756), Sample 2: 3187927 (RID 199756).

Parameter	Sample 1 Area	Sample 2 Area	RPD	exceedsLimit
IS-PFOA-13C2	3342.87	3058.20	8.9	
IS-PFOS-13C4	3099.83	2898.57	6.7	
SS-PFDA-13C2	2038.07	1994.04	2.2	
SS-PFHxA-13C2	3046.91	2879.56	5.6	
Perfluorobutanesulfonic acid (PFBS)	9274.29	35101.10	116.4	*
Perfluoroheptanoic acid (PFHpA)	785.96	3046.98	118.0	*
Perfluorohexanesulfonic acid (PFHxS)	3517.82	13162.80	115.6	*
Perfluorononanoic acid (PFNA)	1136.39	4263.88	115.8	*
Perfluorooctane sulfonate (PFOS)	2966.03	11321.10	117.0	*
Perfluorooctanoic acid (PFOA)	2322.66	8698.06	115.7	*

(return status = 0)

Quantify Compound Summary Report **MassLynx 4.1 SCN810**
UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:30:52 Eastern Standard Time

Method: C:\CY\537\021615M537a.pro\MethDB\021615M537a.mdb 05 Feb 2015 07:55:25
Calibration: 17 Feb 2015 10:26:03

Compound name: IS-13C2-PFOA
Response Factor: 63.4488
RRF SD: 1.97804, Relative SD: 3.11753
Response type: External Std, Area
Curve type: RF

	Name	ID	Std. Conc	RT	Area	IS Area	IS RT	%Rec
1	I-10-A	3187923	50.000	15.00	3191.29			100.6
2	I-25-A	3187924	50.000	14.97	3342.87			105.4
3	I-50-A	3187925	50.000	14.97	3243.77			102.2
4	I-75-A	3187926	50.000	14.95	3123.38			98.5
5	I-100-A	3187927	50.000	14.95	3058.20			96.4
6	I-125-A	3187928	50.000	14.94	3168.55			99.9
7	I-150-A	3187929	50.000	14.92	3079.02			97.1

LIMSRequest Main Exit

RPD Calculation (Area/Response)

Separate by Colon

Enter two sample IDs and RPD limit as in:
sample1, sample2, RPD limit

Arguments
3187925, 3187929, 20

submit

RPD Calculation for Method 537, Maximum RPD = 20.0.
Sample 1: 3187925 (RID 199756), Sample 2: 3187929 (RID 199756).

Parameter	Sample 1 Area	Sample 2 Area	RPD	exceedsLimit
IS-PFOA-13C2	3243.77	3079.02	5.2	
IS-PFOS-13C4	3117.17	2872.13	8.2	
SS-PFDA-13C2	2147.75	1982.36	8.0	
SS-PFHxA-13C2	2988.78	2822.51	5.7	
Perfluorobutanesulfonic acid (PFBS)	17768.80	49992.50	95.1	*
Perfluoroheptanoic acid (PFHpA)	1549.48	4256.35	93.2	*
Perfluorohexanesulfonic acid (PFHxS)	6576.24	18758.80	96.2	*
Perfluorononanoic acid (PFNA)	2204.97	6039.77	93.0	*
Perfluorooctane sulfonate (PFOS)	5864.76	16323.50	94.3	*
Perfluorooctanoic acid (PFOA)	4491.73	12475.10	94.1	*

(return status = 0)

UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:30:52 Eastern Standard Time

Compound name: IS-13C4-PFOS
Response Factor: 30.2689
RRF SD: 0.989474, Relative SD: 3.26894
Response type: External Std, Area
Curve type: RF

	Name	ID	Std. Conc.	RT	Area	IS Area	IS RT	%Rec
1	I-10-A	3187923	100.000	17.22	3071.86			101.5
2	I-25-A	3187924	100.000	17.19	3099.83			102.4
3	I-50-A	3187925	100.000	17.18	3117.17			103.0
4	I-75-A	3187926	100.000	17.18	3060.62			101.1
5	I-100-A	3187927	100.000	17.16	2898.57			95.8
6	I-125-A	3187928	100.000	17.14	3068.08			101.4
7	I-150-A	3187929	100.000	17.14	2872.13			94.9

Quantify Sample Report **MassLynx 4.1 SCN810**
UCMR3 PFAAs by ESI/LC/MS/MS

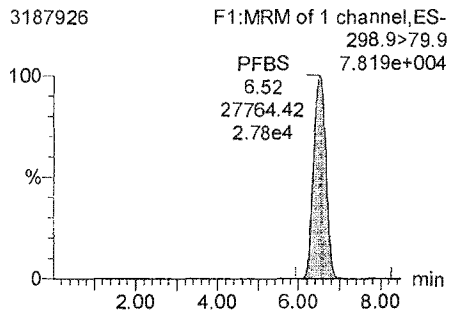
Dataset: C:\CY\537\021615M537a.pro\Asymmetry.qld

Last Altered: Tuesday, February 17, 2015 10:31:21 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:31:37 Eastern Standard Time

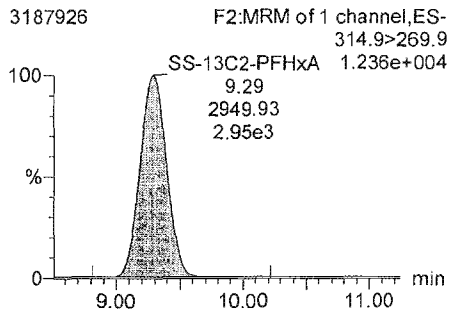
Method: C:\CY\537\021615M537a.pro\MethDB\asymmetry-test-v2.mdb 04 Feb 2015 08:51:39
Calibration: 17 Feb 2015 10:31:21

Name: I-75-A, Date: 16-Feb-2015, Time: 13:14:36, ID: 3187926, Description:

PFBS



SS-13C2-PFHxA



#	Name	ID	RT	Std. Conc	(b/a)	Asymmetry	Flagged
1	PFBS	3187926	6.52	675.000	0.90		NO
2	SS-13C2-PFHxA	3187926	9.29	50.000	1.03		NO

OK. $0.8 \leq A_s \leq 1.5$
CM
02/17/2015

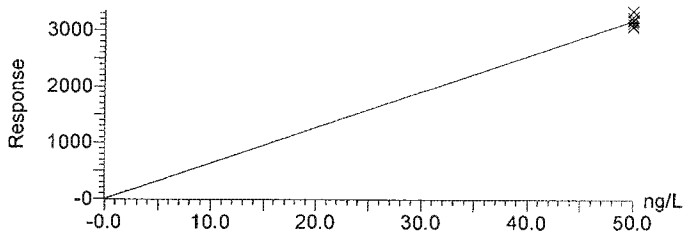
Quantify Calibration Report **MassLynx 4.1 SCN810**
UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

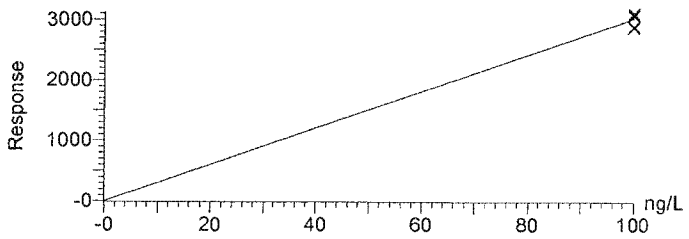
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Method: C:\CY\537\021615M537a.pro\MethDB\021615M537a.mdb 05 Feb 2015 07:55:25
Calibration: 17 Feb 2015 10:26:03

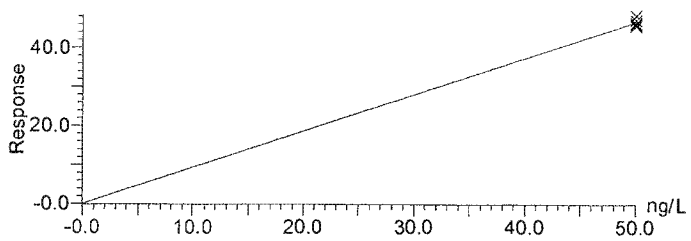
Compound name: IS-13C2-PFOA
Response Factor: 63.4488
RRF SD: 1.97804, % Relative SD: 3.11753
Response type: External Std, Area
Curve type: RF



Compound name: IS-13C4-PFOS
Response Factor: 30.2689
RRF SD: 0.989474, % Relative SD: 3.26894
Response type: External Std, Area
Curve type: RF



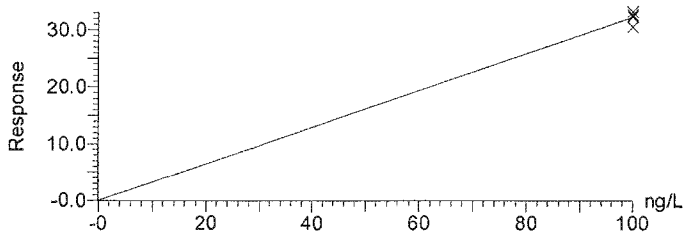
Compound name: SS-13C2-PFHxA
Response Factor: 0.93271
RRF SD: 0.0189555, % Relative SD: 2.03231
Response type: Internal Std (Ref 1), Area * (IS Conc. / IS Area)
Curve type: RF



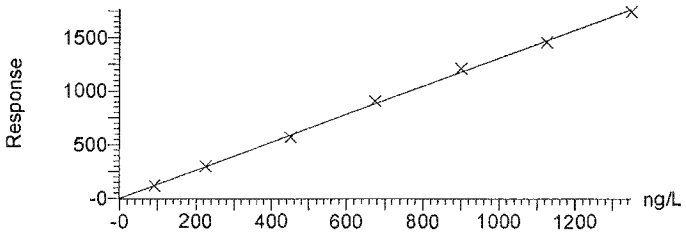
Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

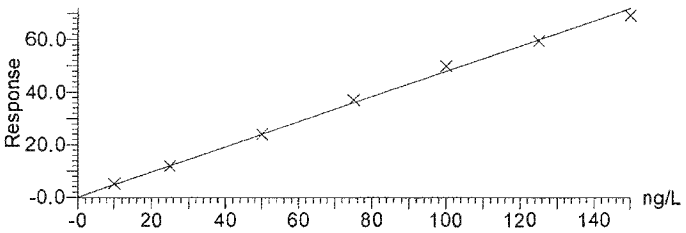
Compound name: SS-13C2-PFDA
Response Factor: 0.322096
RRF SD: 0.00826218, % Relative SD: 2.56513
Response type: Internal Std (Ref 1), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PFBS
Coefficient of Determination: R^2 = 0.999172
Calibration curve: 1.30885 * x
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



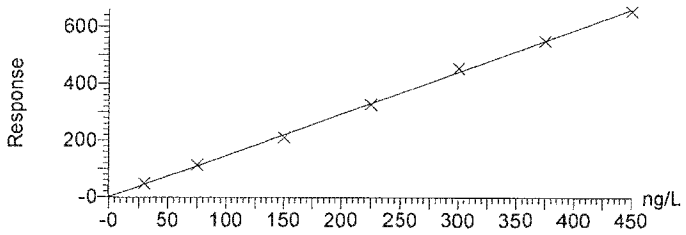
Compound name: PFHpA
Coefficient of Determination: R^2 = 0.998181
Calibration curve: 0.478774 * x
Response type: Internal Std (Ref 1), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



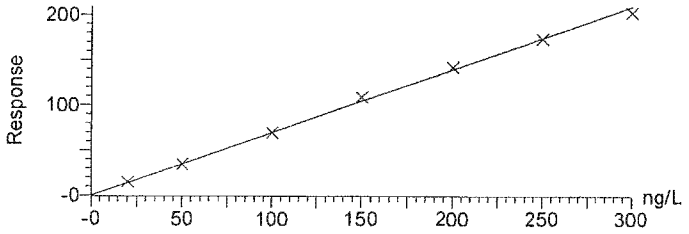
Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

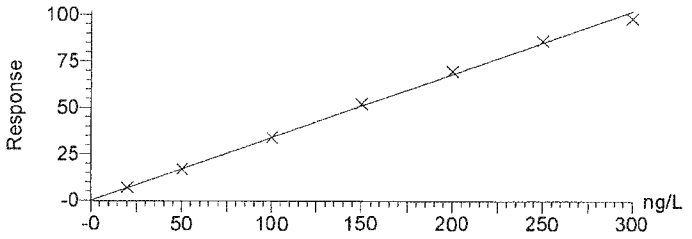
Compound name: PFHxS
Coefficient of Determination: R^2 = 0.998993
Calibration curve: 1.46635 * x
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Compound name: PFOA
Coefficient of Determination: R^2 = 0.998644
Calibration curve: 0.697233 * x
Response type: Internal Std (Ref 1), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



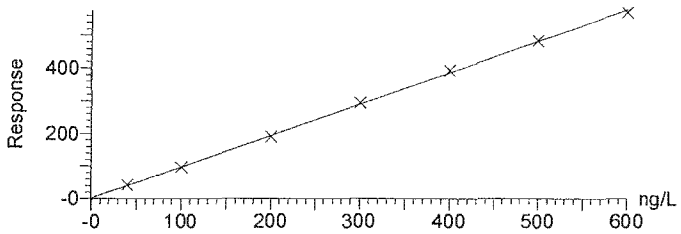
Compound name: PFNA
Coefficient of Determination: R^2 = 0.998799
Calibration curve: 0.340056 * x
Response type: Internal Std (Ref 1), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Compound name: PFOS
Coefficient of Determination: R^2 = 0.999590
Calibration curve: 0.961134 * x
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



UCMR3 PFAAs by ESI/LC/MS/MS

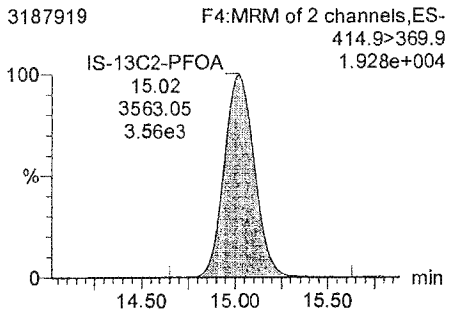
Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

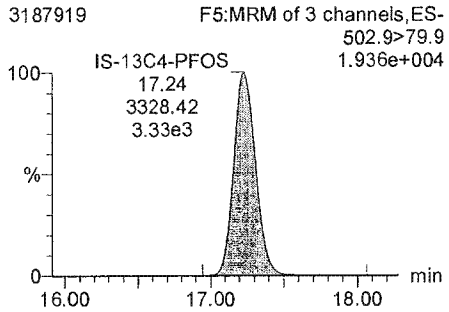
Method: C:\CY\537\021615M537a.pro\MethDB\021615M537a.mdb 05 Feb 2015 07:55:25
Calibration: 17 Feb 2015 10:26:03

Name: LIB-A, Date: 16-Feb-2015, Time: 11:10:55, ID: 3187919, Description:

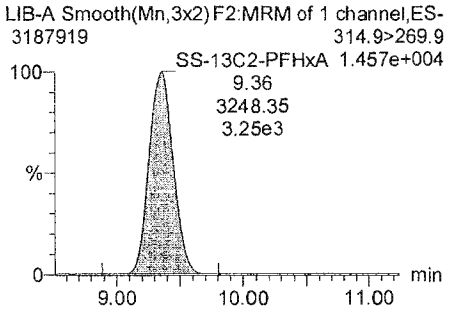
IS-13C2-PFOA



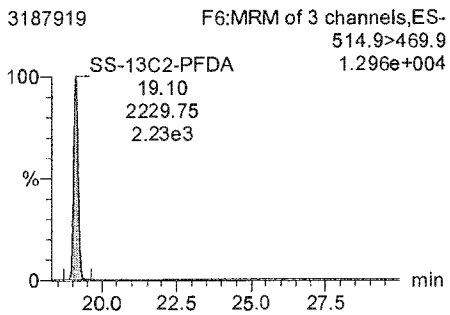
IS-13C4-PFOS



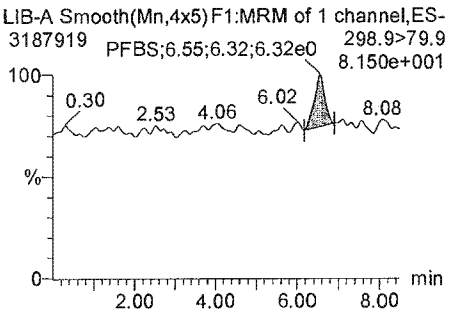
SS-13C2-PFHxA



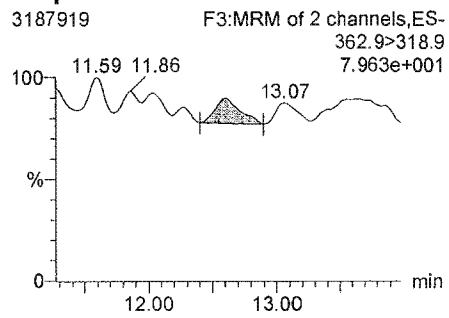
SS-13C2-PFDA



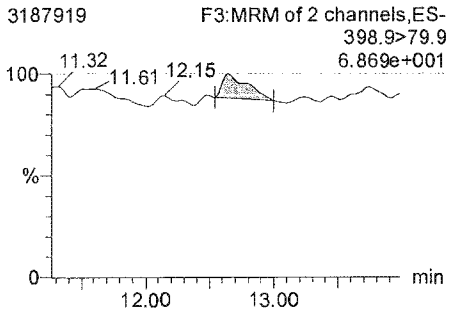
PFBS



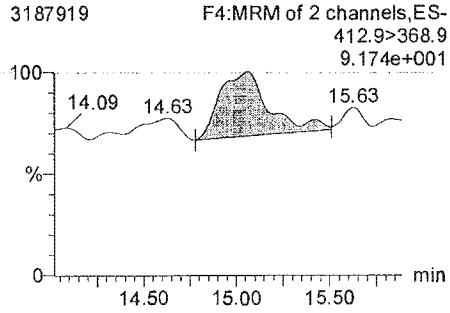
PFHpA



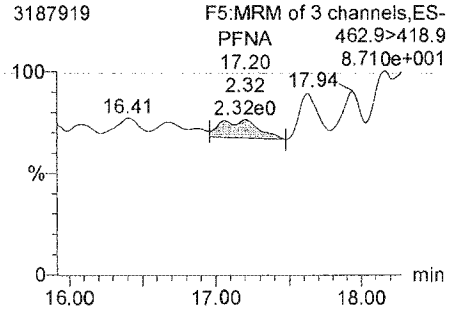
PFHxS



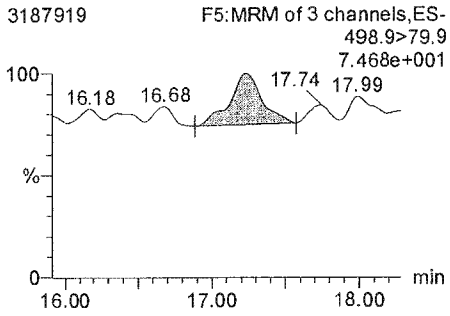
PFOA



PFNA



PFOS



UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: LIB-A, Date: 16-Feb-2015, Time: 11:10:55, ID: 3187919, Description:

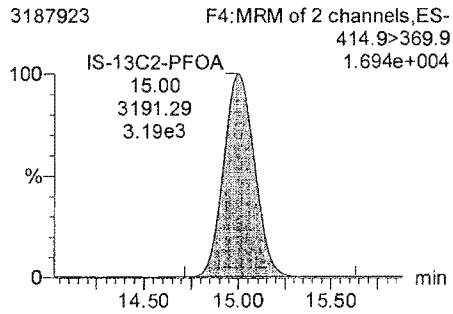
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod Comment	Mod Date	Mod Time
1	IS-13C2-PFOA	15.02	3563.05		1.000	56.156313	112.3	bb			
2	IS-13C4-PFOS	17.24	3328.42		1.000	109.961610	110.0	bb			
3	SS-13C2-PFHxA	9.36	3248.35	1	1.000	48.872460	97.7	bb			
4	SS-13C2-PFDA	19.10	2229.75	1	1.000	97.144379	97.1	bb			
5	PFBS	6.55	6.32	2	1.000	0.144959		bb			
6	PFHpA	12.61	2.22	1	1.000	0.065156		bb			
7	PFHxS	12.64	1.85	2	1.000	0.037925		bb			
8	PFOA	15.07	8.93	1	1.000	0.179811		bd			
9	PFNA	17.20	2.32	1	1.000	0.095738		db			
10	PFOS	17.24	4.79	2	1.000	0.149857		bb			

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

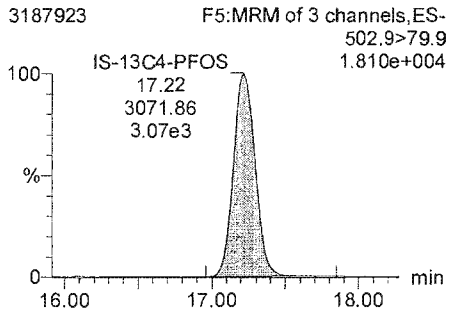
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-10-A, Date: 16-Feb-2015, Time: 11:41:50, ID: 3187923, Description:

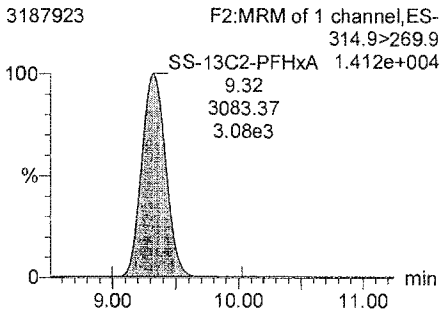
IS-13C2-PFOA



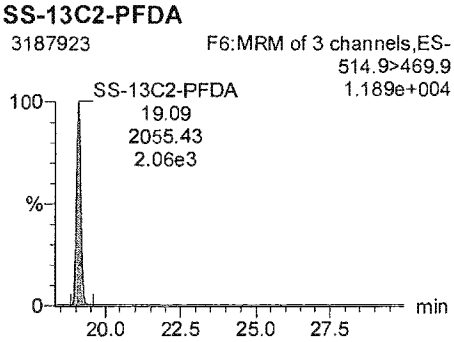
IS-13C4-PFOS



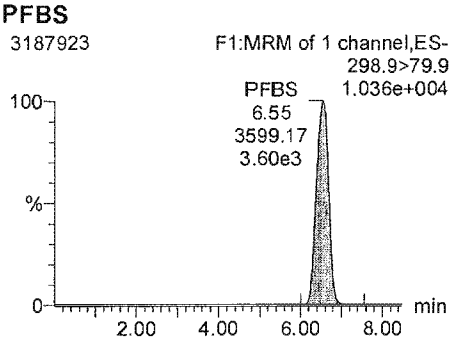
SS-13C2-PFHxA



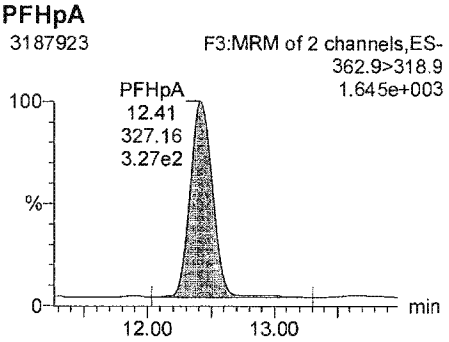
SS-13C2-PFDA



PFBS



PFHpA



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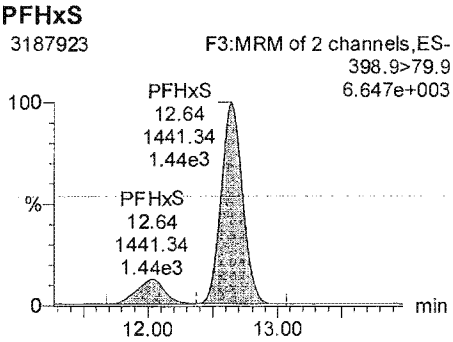
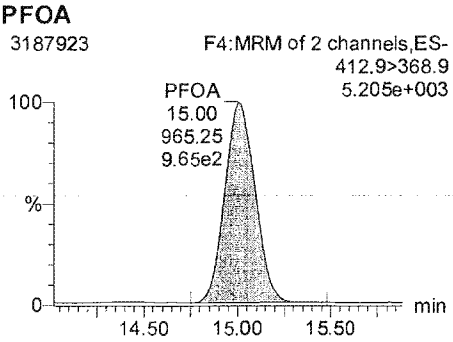


PFOA



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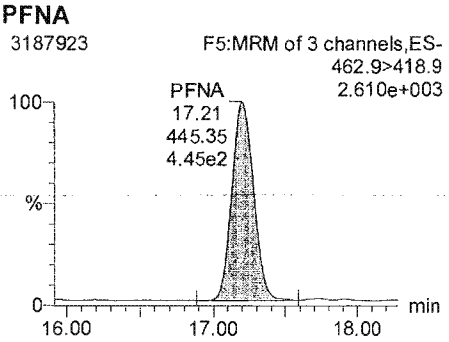
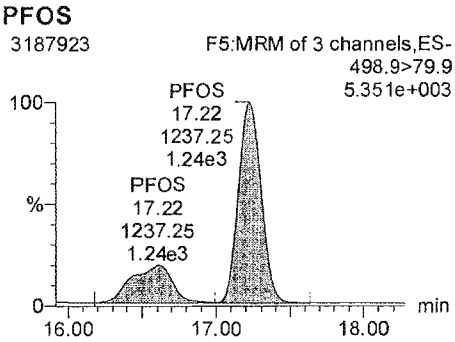


PFOS



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Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-10-A, Date: 16-Feb-2015, Time: 11:41:50, ID: 3187923, Description:

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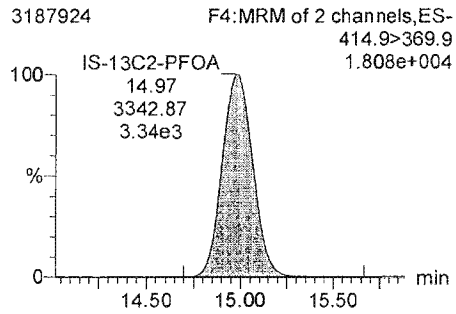
1	IS-13C2-PFOA	15.00	3191.29		1.000	50.297054	100.6	bb			
2	IS-13C4-PFOS	17.22	3071.86		1.000	101.485563	101.5	bb			
3	SS-13C2-PFHxA	9.32	3083.37	1	1.000	51.794415	103.6	bb			
4	SS-13C2-PFDA	19.09	2055.43	1	1.000	99.981960	100.0	bb			
5	PFBS	6.55	3599.17	2	1.000	89.518180	99.5	bb			
6	PFHpA	12.41	327.16	1	1.000	10.706151	107.1	bb			
7	PFHxS	12.64	1441.34	2	1.000	31.998192	106.7	MM	SP-CM	17-Feb-15	10:23:28
8	PFOA	15.00	965.25	1	1.000	21.690307	108.5	db			
9	PFNA	17.21	445.35	1	1.000	20.518956	102.6	bd			
10	PFOS	17.22	1237.25	2	1.000	41.905448	104.8	MM	SP-CM	17-Feb-15	10:25:29

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

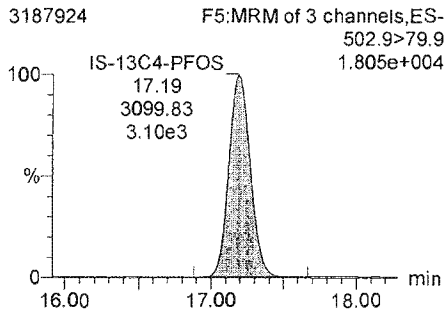
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-25-A, Date: 16-Feb-2015, Time: 12:12:45, ID: 3187924, Description:

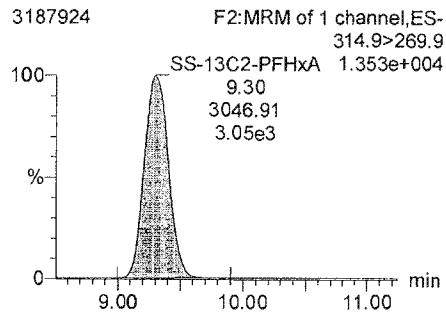
IS-13C2-PFOA



IS-13C4-PFOS



SS-13C2-PFHxA



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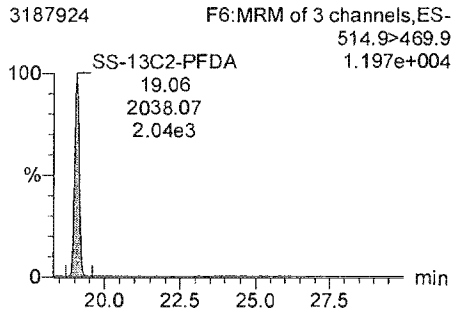
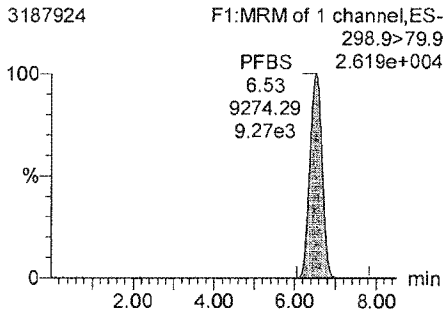
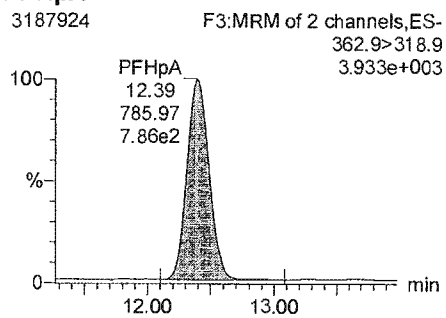


PFBS



PFHpA



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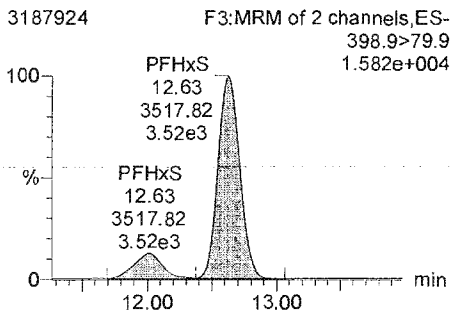
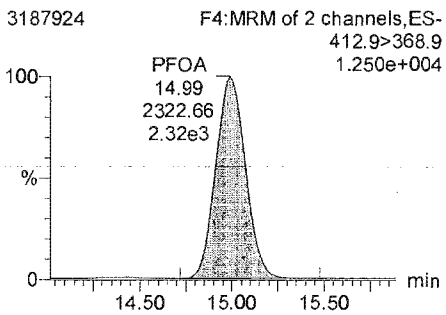


PFOA



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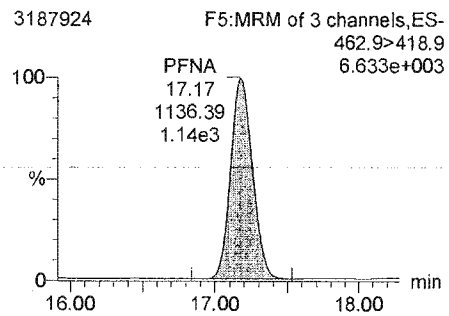
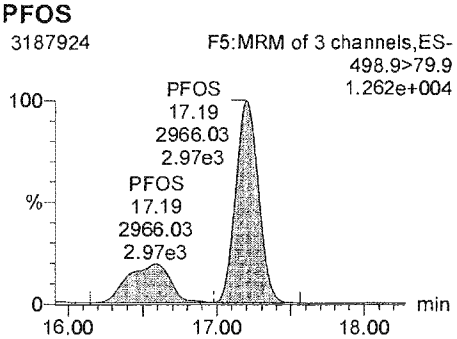


PFOS



UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-25-A, Date: 16-Feb-2015, Time: 12:12:45, ID: 3187924, Description:

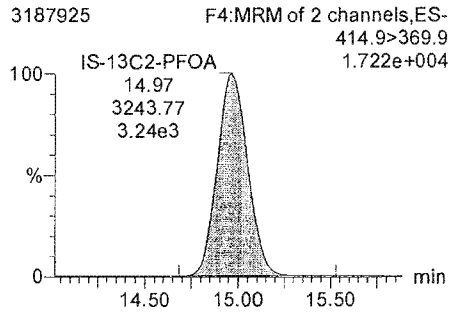
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.97	3342.87		1.000	52.686098	105.4	bb			
2	IS-13C4-PFOS	17.19	3099.83		1.000	102.409513	102.4	bb			
3	SS-13C2-PFHxA	9.30	3046.91	1	1.000	48.861041	97.7	bb			
4	SS-13C2-PFDA	19.06	2038.07	1	1.000	94.641912	94.6	bb			
5	PFBS	6.53	9274.29	2	1.000	228.587770	101.6	bd			
6	PFHpA	12.39	785.97	1	1.000	24.554067	98.2	db			
7	PFHxS	12.63	3517.82	2	1.000	77.392359	103.2	MM	SP-CM	17-Feb-15	10:23:38
8	PFOA	14.99	2322.66	1	1.000	49.826317	99.7	bb			
9	PFNA	17.17	1136.39	1	1.000	49.983489	100.0	bb			
10	PFOS	17.19	2966.03	2	1.000	99.552803	99.6	MM	SP-CM	17-Feb-15	10:25:35

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

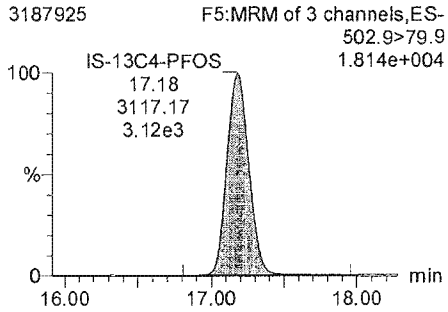
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-50-A, Date: 16-Feb-2015, Time: 12:43:40, ID: 3187925, Description:

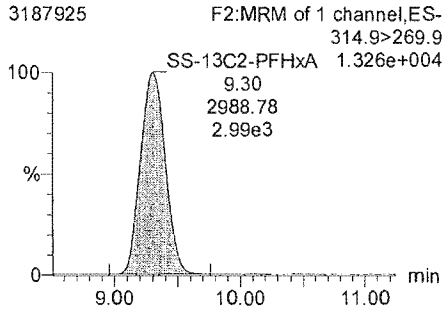
IS-13C2-PFOA



IS-13C4-PFOS



SS-13C2-PFHxA



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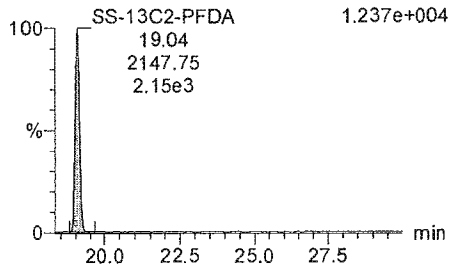
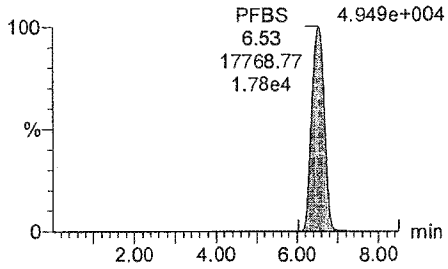
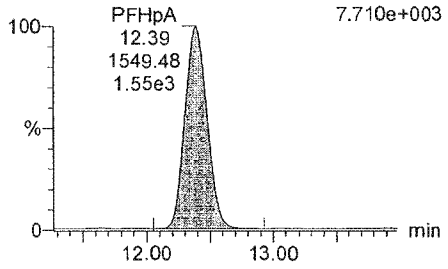


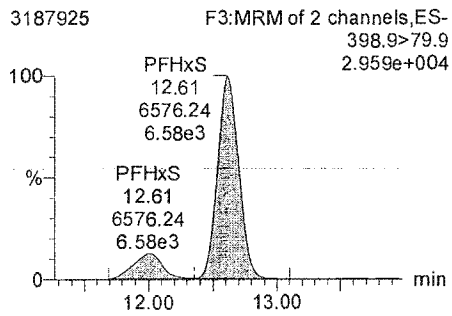
PFBS



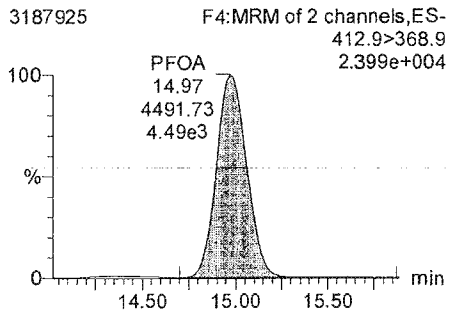
PFHpA



PFHxS



PFOA



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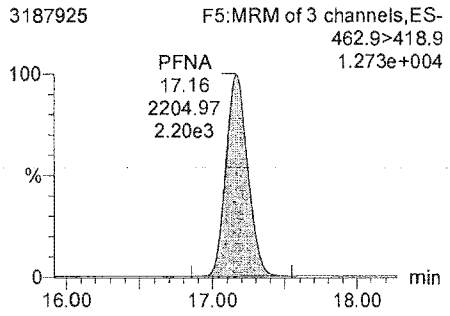
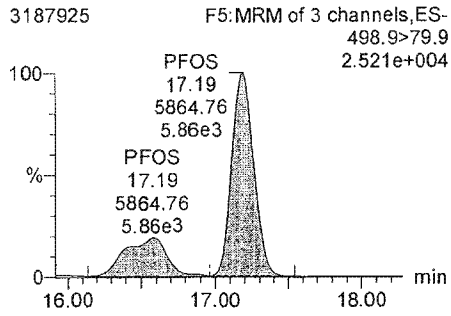


PFOS



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Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-50-A, Date: 16-Feb-2015, Time: 12:43:40, ID: 3187925, Description:

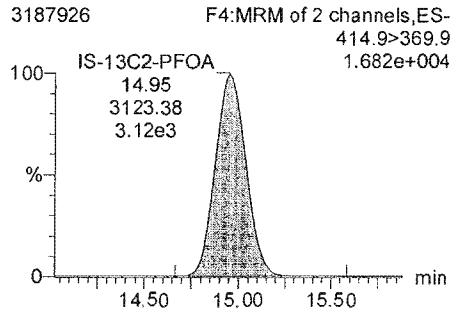
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.97	3243.77		1.000	51.124225	102.2	bb			
2	IS-13C4-PFOS	17.18	3117.17		1.000	102.982543	103.0	bb			
3	SS-13C2-PFHxA	9.30	2988.78	1	1.000	49.393221	98.8	bb			
4	SS-13C2-PFDA	19.04	2147.75	1	1.000	102.782380	102.8	bb			
5	PFBS	6.53	17768.77	2	1.000	435.518265	96.8	bb			
6	PFHpA	12.39	1549.48	1	1.000	49.885604	99.8	bb			
7	PFHxS	12.61	6576.24	2	1.000	143.872928	95.9	MM	SP-CM	17-Feb-15	10:23:42
8	PFOA	14.97	4491.73	1	1.000	99.301481	99.3	bb			
9	PFNA	17.16	2204.97	1	1.000	99.947403	99.9	bd			
10	PFOS	17.19	5864.76	2	1.000	195.751604	97.9	MM	SP-CM	17-Feb-15	10:25:42

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

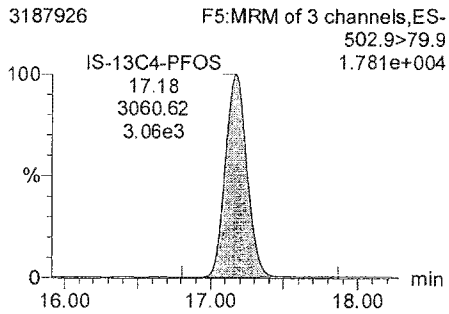
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-75-A, Date: 16-Feb-2015, Time: 13:14:36, ID: 3187926, Description:

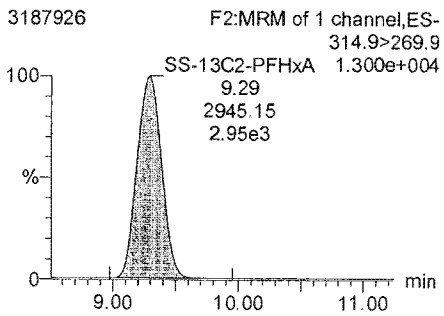
IS-13C2-PFOA



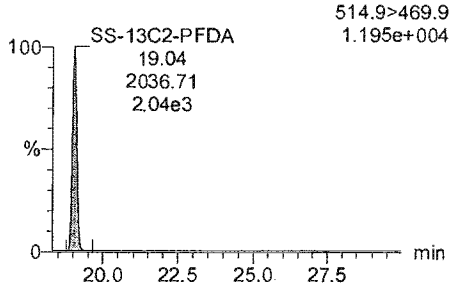
IS-13C4-PFOS



SS-13C2-PFHxA



SS-13C2-PFDA



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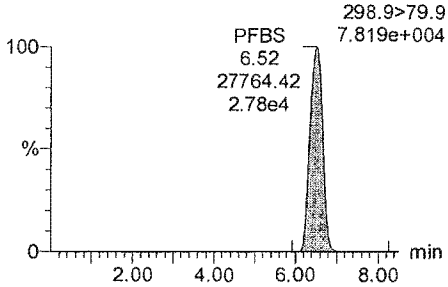

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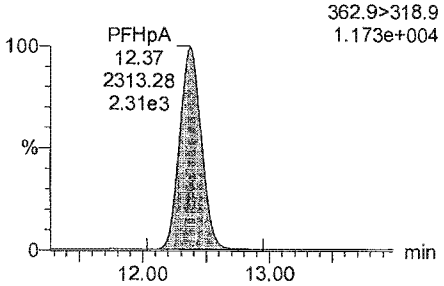
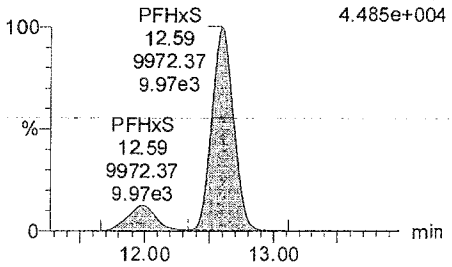
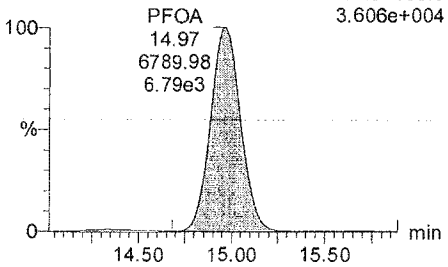


PFHxS



PFOA



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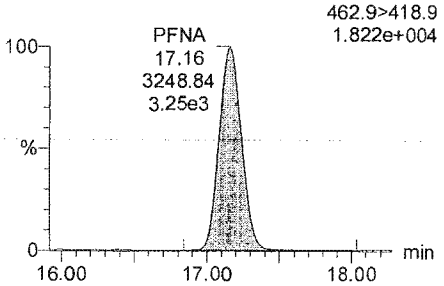
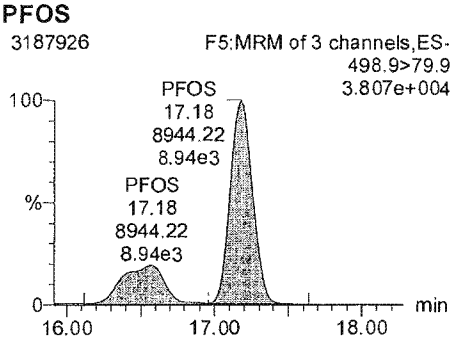


PFOS



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Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-75-A, Date: 16-Feb-2015, Time: 13:14:36, ID: 3187926, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
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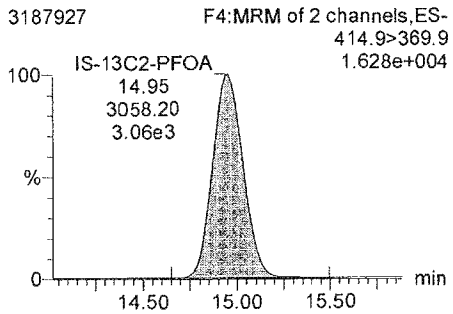
2	IS-13C4-PFOS	17.18	3060.62		1.000	101.114225	101.1	bb			
3	SS-13C2-PFHxA	9.29	2945.15	1	1.000	50.548256	101.1	bb			
4	SS-13C2-PFDA	19.04	2036.71	1	1.000	101.225144	101.2	bb			
5	PFBS	6.52	27764.42	2	1.000	693.089111	102.7	bb			
6	PFHpA	12.37	2313.28	1	1.000	77.346927	103.1	bb			
7	PFHxS	12.59	9972.37	2	1.000	222.203435	98.8	MM	SP-CM	17-Feb-15	10:23:47
8	PFOA	14.97	6789.98	1	1.000	155.896374	103.9	db			
9	PFNA	17.16	3248.84	1	1.000	152.940641	102.0	bb			
10	PFOS	17.18	8944.22	2	1.000	304.052630	101.4	MM	SP-CM	17-Feb-15	10:25:47

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

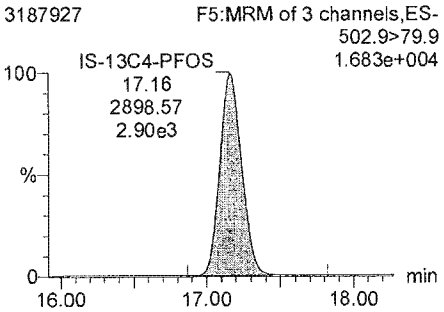
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-100-A, Date: 16-Feb-2015, Time: 13:45:25, ID: 3187927, Description:

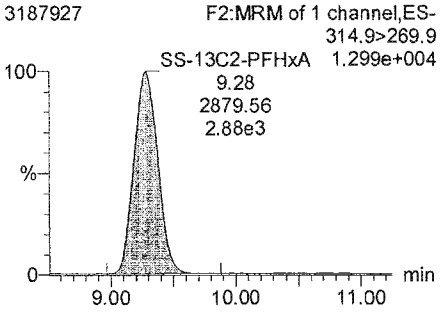
IS-13C2-PFOA



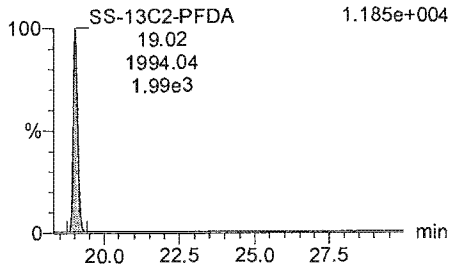
IS-13C4-PFOS



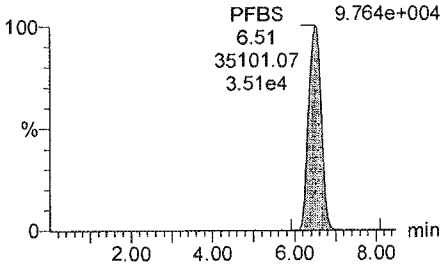
SS-13C2-PFHxA



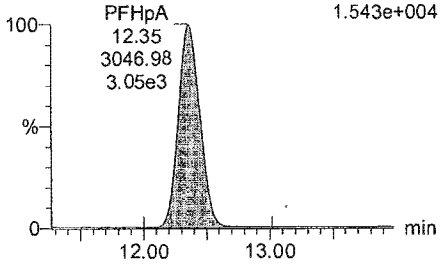
SS-13C2-PFDA



PFBS



PFHpA



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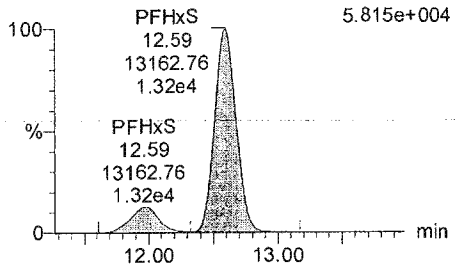
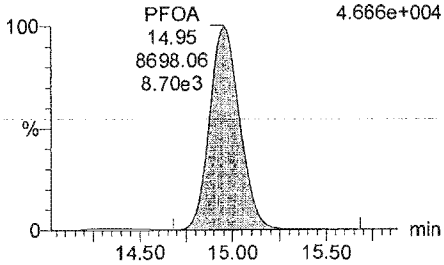
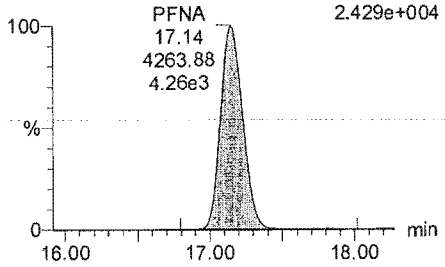


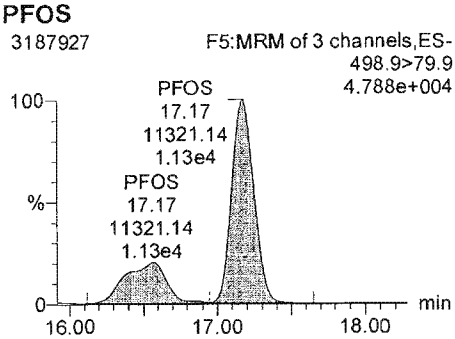
PFOA



PFNA



PFOS



Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-100-A, Date: 16-Feb-2015, Time: 13:45:25, ID: 3187927, Description:

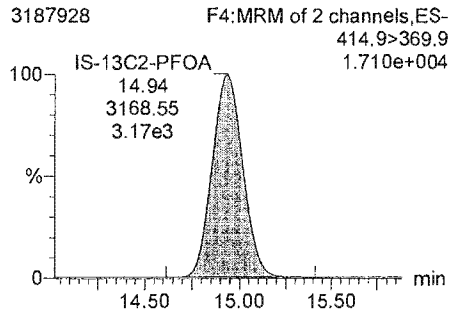
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.95	3058.20		1.000	48.199520	96.4	bb			
2	IS-13C4-PFOS	17.16	2898.57		1.000	95.760521	95.8	bb			
3	SS-13C2-PFHxA	9.28	2879.56	1	1.000	50.475770	101.0	bb			
4	SS-13C2-PFDA	19.02	1994.04	1	1.000	101.216816	101.2	bb			
5	PFBS	6.51	35101.07	2	1.000	925.223221	102.8	bb			
6	PFHpA	12.35	3046.98	1	1.000	104.050159	104.1	db			
7	PFHxS	12.59	13162.76	2	1.000	309.688544	103.2	MM	SP-CM	17-Feb-15	10:23:52
8	PFOA	14.95	8698.06	1	1.000	203.961415	102.0	bb			
9	PFNA	17.14	4263.88	1	1.000	205.002241	102.5	bb			
10	PFOS	17.17	11321.14	2	1.000	406.370673	101.6	MM	SP-CM	17-Feb-15	10:25:52

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

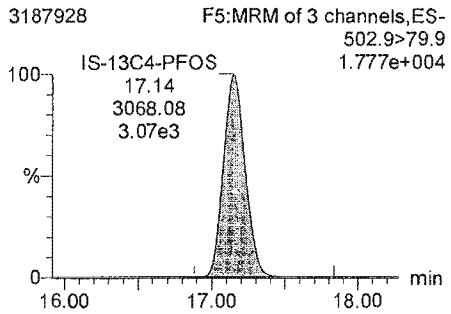
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-125-A, Date: 16-Feb-2015, Time: 14:16:20, ID: 3187928, Description:

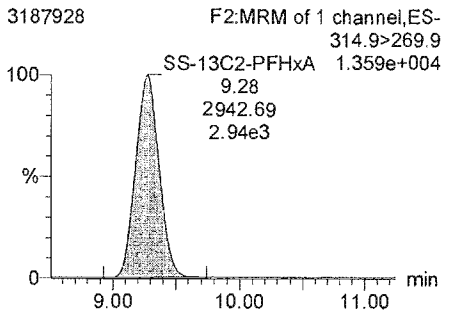
IS-13C2-PFOA



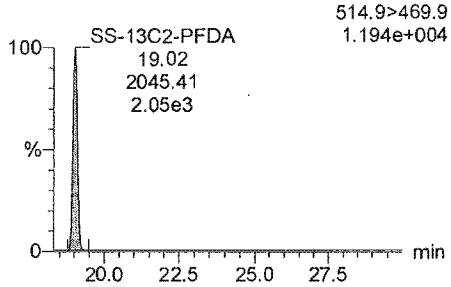
IS-13C4-PFOS



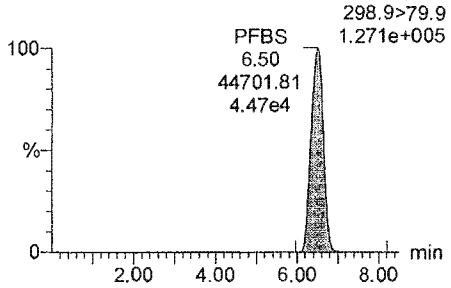
SS-13C2-PFHxA



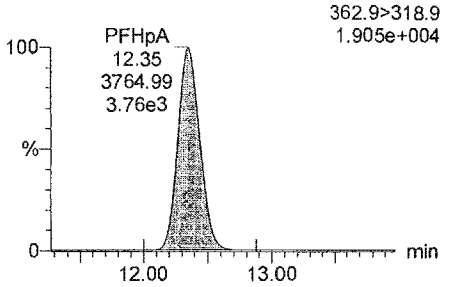
SS-13C2-PFDA



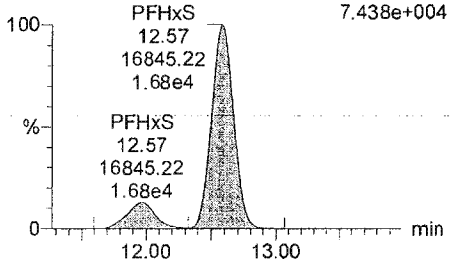
PFBS



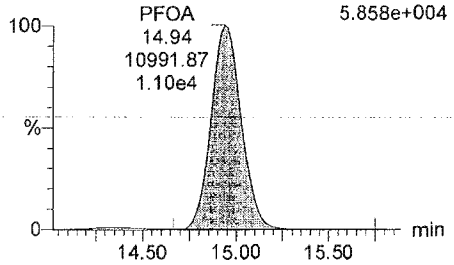
PFHpA



PFHxS



PFOA



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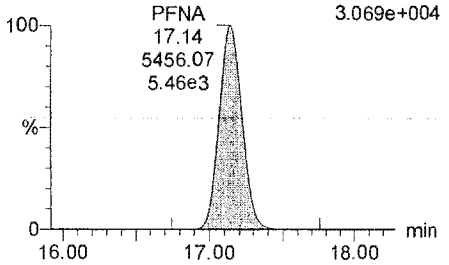
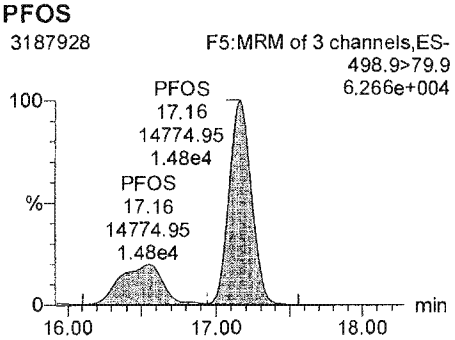


PFOS



UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-125-A, Date: 16-Feb-2015, Time: 14:16:20, ID: 3187928, Description:

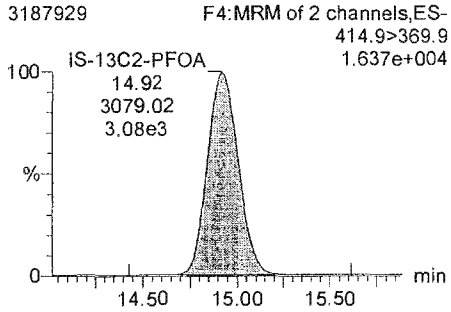
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.94	3168.55		1.000	49.938718	99.9	bb			
2	IS-13C4-PFOS	17.14	3068.08		1.000	101.360550	101.4	bb			
3	SS-13C2-PFHxA	9.28	2942.69	1	1.000	49.785969	99.6	bb			
4	SS-13C2-PFDA	19.02	2045.41	1	1.000	100.208338	100.2	bb			
5	PFBS	6.50	44701.81	2	1.000	1113.188642	99.0	bb			
6	PFHpA	12.35	3764.99	1	1.000	124.091536	99.3	bd			
7	PFHxS	12.57	16845.22	2	1.000	374.431495	99.8	MM	SP-CM	17-Feb-15	10:23:57
8	PFOA	14.94	10991.87	1	1.000	248.772670	99.5	bb			
9	PFNA	17.14	5456.07	1	1.000	253.185586	101.3	db			
10	PFOS	17.16	14774.95	2	1.000	501.043805	100.2	MM	SP-CM	17-Feb-15	10:25:57

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

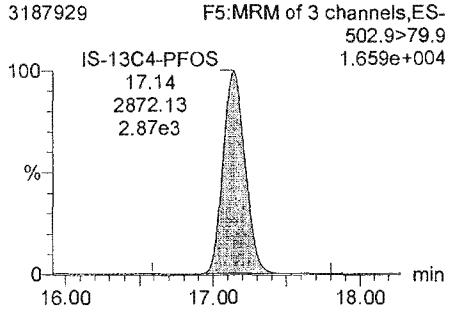
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-150-A, Date: 16-Feb-2015, Time: 14:47:16, ID: 3187929, Description:

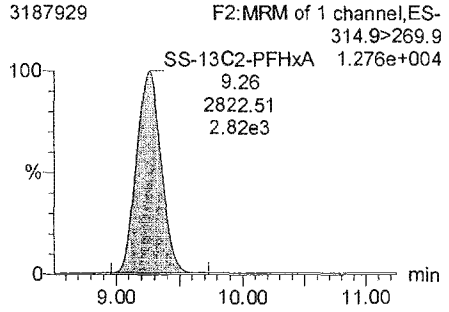
IS-13C2-PFOA



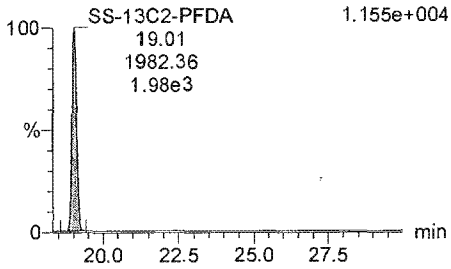
IS-13C4-PFOS



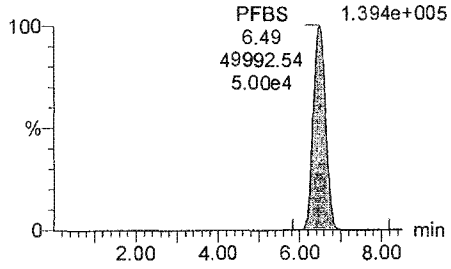
SS-13C2-PFHxA



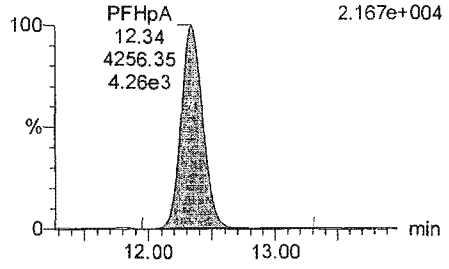
SS-13C2-PFDA



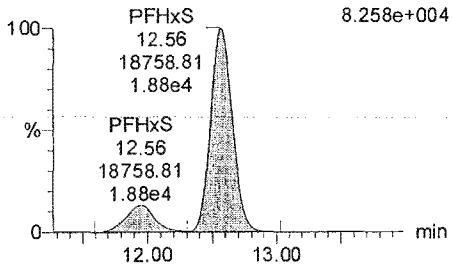
PFBS



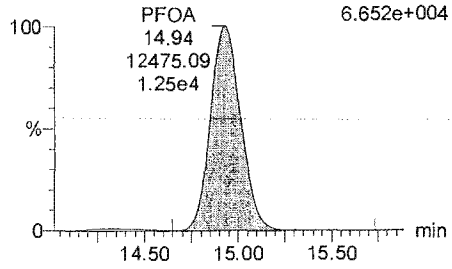
PFHpA



PFHxS



PFOA



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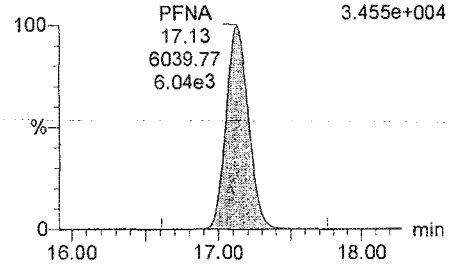
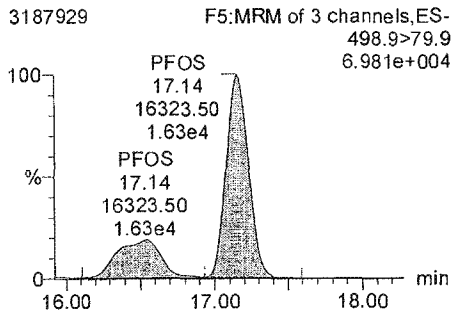


PFOS



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Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: I-150-A, Date: 16-Feb-2015, Time: 14:47:16, ID: 3187929, Description:

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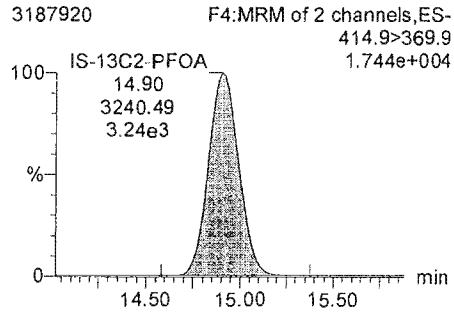
1	IS-13C2-PFOA	14.92	3079.02		1.000	48.527627	97.1	bb			
2	IS-13C4-PFOS	17.14	2872.13		1.000	94.887084	94.9	bb			
3	SS-13C2-PFHxA	9.26	2822.51	1	1.000	49.141328	98.3	bb			
4	SS-13C2-PFDA	19.01	1982.36	1	1.000	99.943450	99.9	bb			
5	PFBS	6.49	49992.54	2	1.000	1329.874811	98.5	bb			
6	PFHpA	12.34	4256.35	1	1.000	144.365555	96.2	dd			
7	PFHxS	12.56	18758.81	2	1.000	445.413047	99.0	MM	SP-CM	17-Feb-15	10:24:02
8	PFOA	14.94	12475.09	1	1.000	290.551436	96.9	bb			
9	PFNA	17.13	6039.77	1	1.000	288.421685	96.1	bd			
10	PFOS	17.14	16323.50	2	1.000	591.323037	98.6	MM	SP-CM	17-Feb-15	10:26:02

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

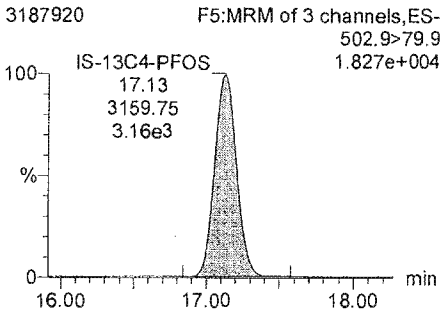
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: LIB-B, Date: 16-Feb-2015, Time: 15:18:11, ID: 3187920, Description:

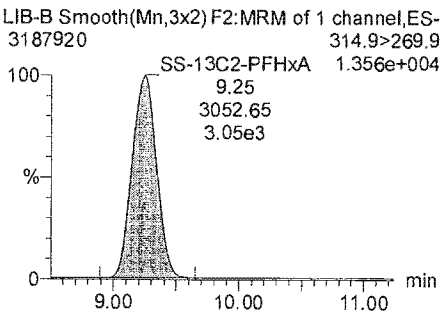
IS-13C2-PFOA



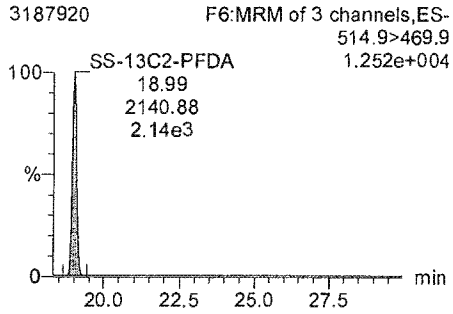
IS-13C4-PFOS



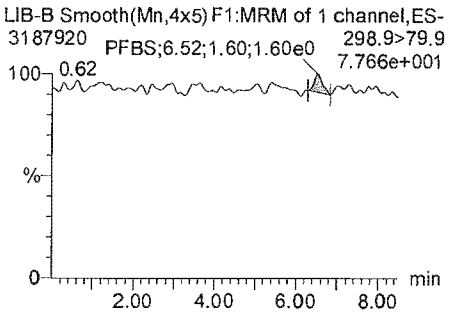
SS-13C2-PFHxA



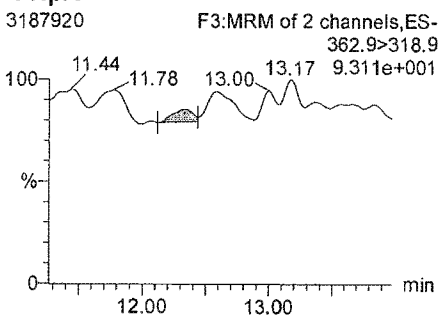
SS-13C2-PFDA



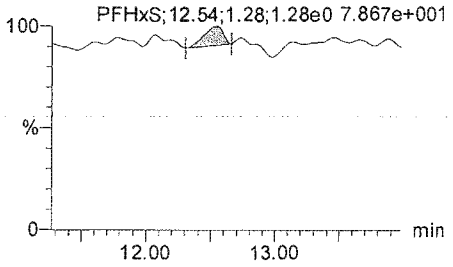
PFBS



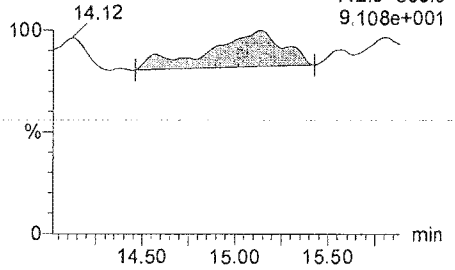
PFHpA



PFHxS



PFOA



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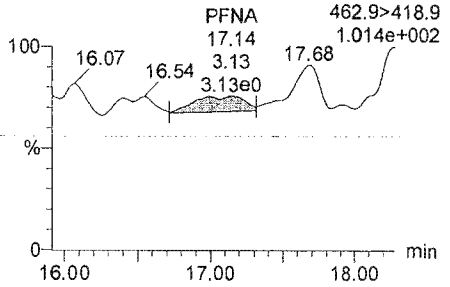
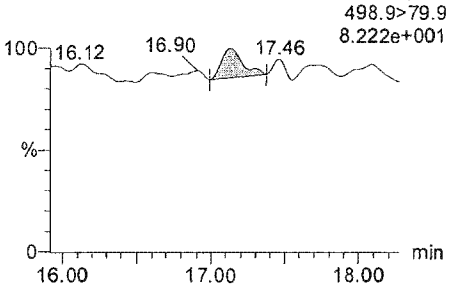


PFOS



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Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: LIB-B, Date: 16-Feb-2015, Time: 15:18:11, ID: 3187920, Description:

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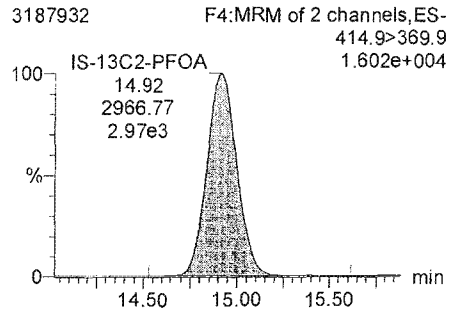
1	IS-13C2-PFOA	14.90	3240.49		1.000	51.072451	102.1	bb			
2	IS-13C4-PFOS	17.13	3159.75		1.000	104.389034	104.4	bb			
3	SS-13C2-PFHxA	9.25	3052.65	1	1.000	50.499891	101.0	bb			
4	SS-13C2-PFDA	18.99	2140.88	1	1.000	102.557281	102.6	bb			
5	PFBS	6.52	1.60	2	1.000	0.038567		bb			
6	PFHpA	12.34	1.08	1	1.000	0.034774		bd			
7	PFHxS	12.54	1.28	2	1.000	0.027605		bb			
8	PFOA	15.14	7.51	1	1.000	0.166108		bb			
9	PFNA	17.14	3.13	1	1.000	0.141840		dd			
10	PFOS	17.13	1.96	2	1.000	0.064407		bb			

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

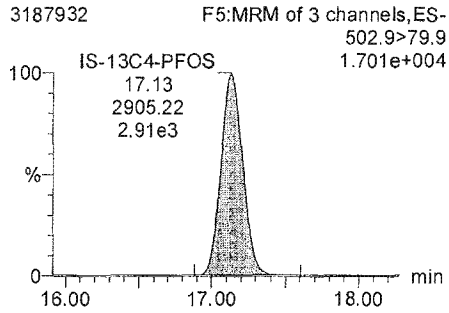
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: CCL-10-A, Date: 16-Feb-2015, Time: 15:49:07, ID: 3187932, Description:

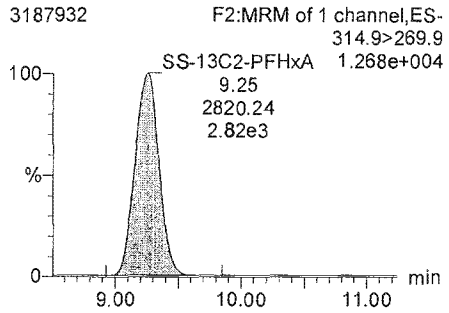
IS-13C2-PFOA



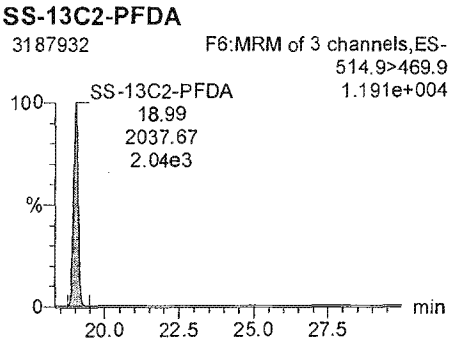
IS-13C4-PFOS



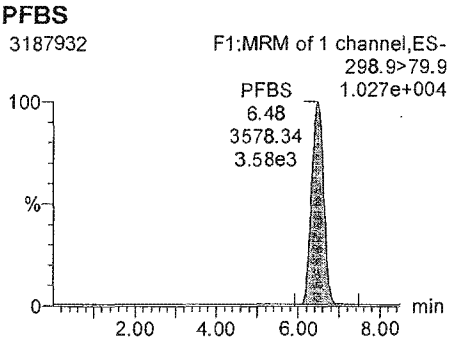
SS-13C2-PFHxA



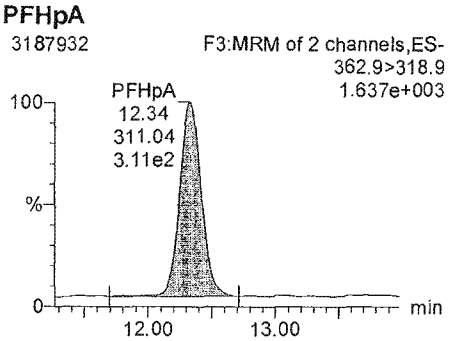
SS-13C2-PFDA



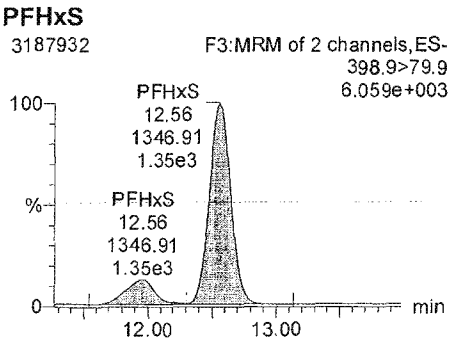
PFBS



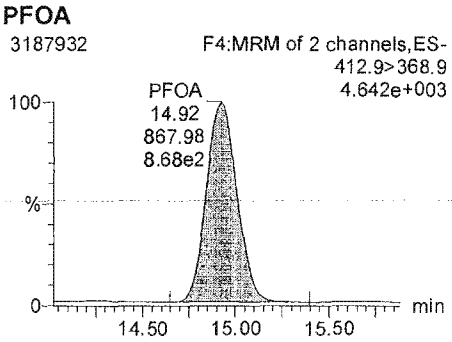
PFHpA



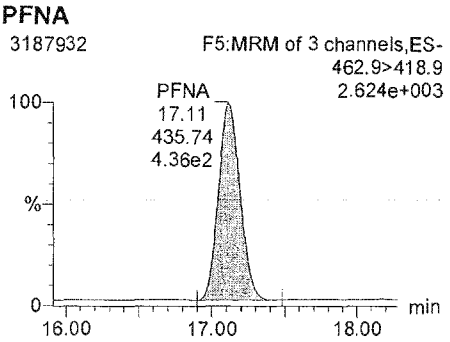
PFHxS



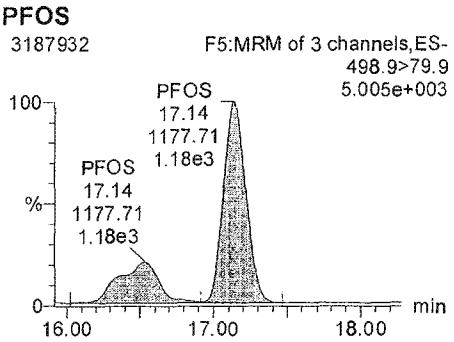
PFOA



PFNA



PFOS



Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: CCL-10-A, Date: 16-Feb-2015, Time: 15:49:07, ID: 3187932, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
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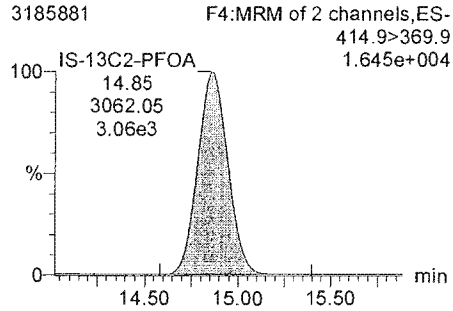
2	IS-13C4-PFOS	17.13	2905.22		1.000	95.980350	96.0	bb			
3	SS-13C2-PFHxA	9.25	2820.24	1	1.000	50.959451	101.9	bb			
4	SS-13C2-PFDA	18.99	2037.67	1	1.000	106.618885	106.6	bb			
5	PFBS	6.48	3578.34	2	1.000	94.104941	104.6	bb			
6	PFHpA	12.34	311.04	1	1.000	10.948876	109.5	db			
7	PFHxS	12.56	1346.91	2	1.000	31.616956	105.4	MM	SP-CM	17-Feb-15	10:24:08
8	PFOA	14.92	867.98	1	1.000	20.980490	104.9	bb			
9	PFNA	17.11	435.74	1	1.000	21.595475	108.0	bb			
10	PFOS	17.14	1177.71	2	1.000	42.176979	105.4	MM	SP-CM	17-Feb-15	10:26:08

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

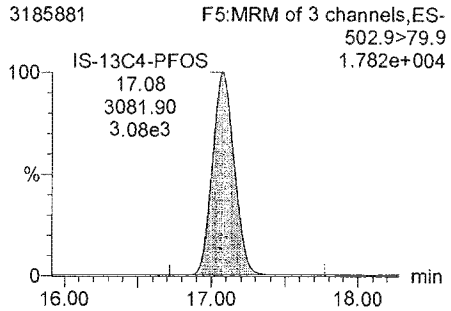
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: 3185881D, Date: 16-Feb-2015, Time: 20:27:20, ID: 3185881, Description:

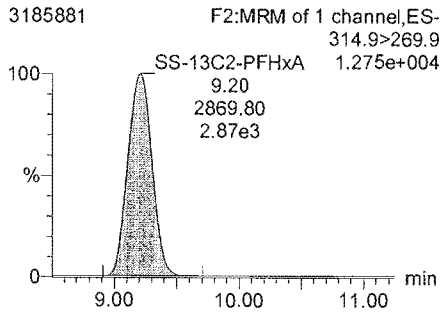
IS-13C2-PFOA



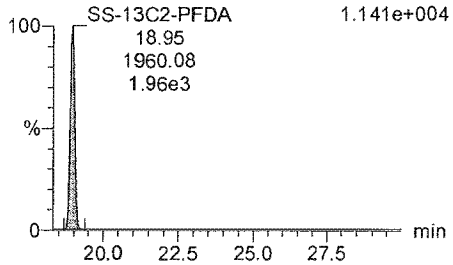
IS-13C4-PFOS



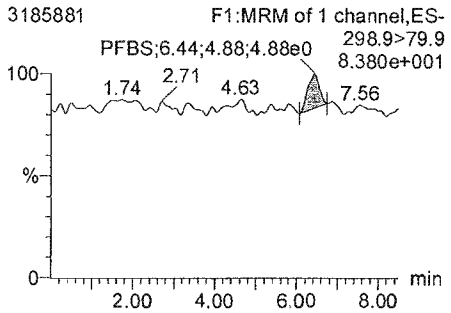
SS-13C2-PFHxA



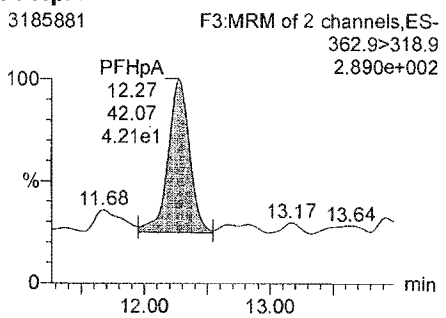
SS-13C2-PFDA



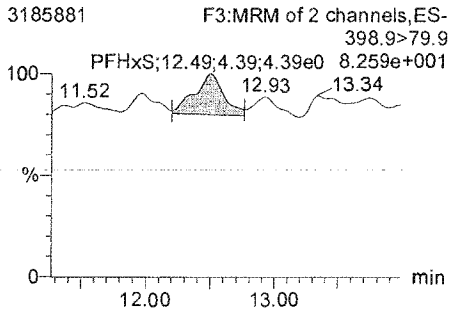
PFBS



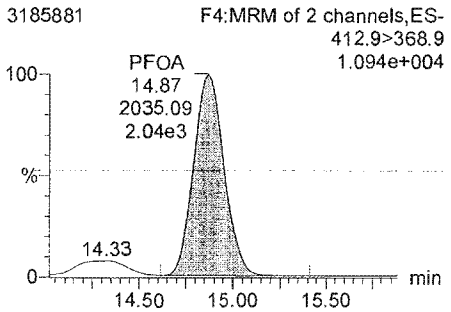
PFHpA



PFHxS



PFOA



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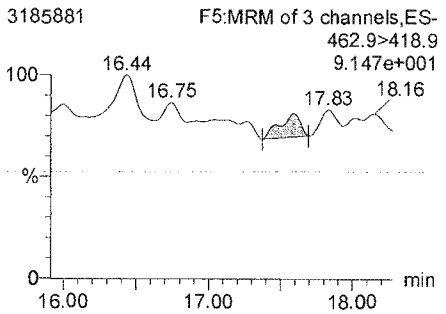
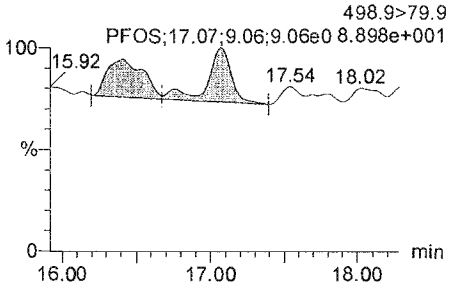


PFOS



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Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: 3185881D, Date: 16-Feb-2015, Time: 20:27:20, ID: 3185881, Description:

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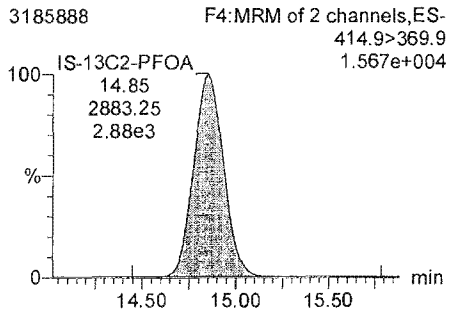
1	IS-13C2-PFOA	14.85	3062.05		10.000	482.600888	96.5	bb			
2	IS-13C4-PFOS	17.08	3081.90		10.000	1018.172562	101.8	bb			
3	SS-13C2-PFHxA	9.20	2869.80	1	10.000	502.415526	100.5	bb			
4	SS-13C2-PFDA	18.95	1960.08	1	10.000	993.678988	99.4	bb			
5	PFBS	6.44	4.88	2	10.000	1.210041		bb			
6	PFHpA	12.27	42.07	1	10.000	14.346925		dd			
7	PFHxS	12.49	4.39	2	10.000	0.971643		dd			
8	PFOA	14.87	2035.09	1	10.000	476.611096		bb			
9	PFNA	17.59	1.77	1	10.000	0.848006		bb			
10	PFOS	17.07	9.06	2	10.000	3.059633		MM	SP-CM	17-Feb-15	10:26:42

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

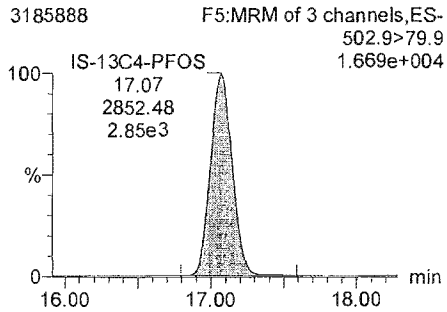
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: 3185888D, Date: 16-Feb-2015, Time: 20:58:16, ID: 3185888, Description:

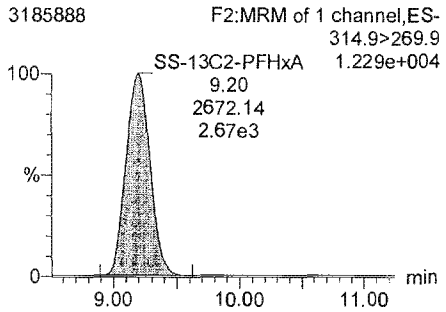
IS-13C2-PFOA



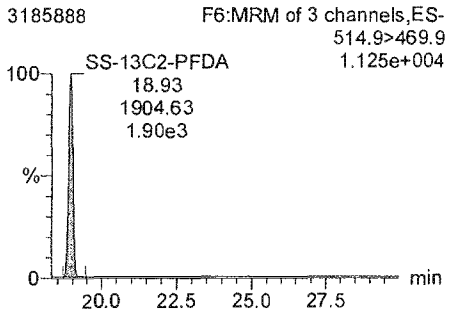
IS-13C4-PFOS



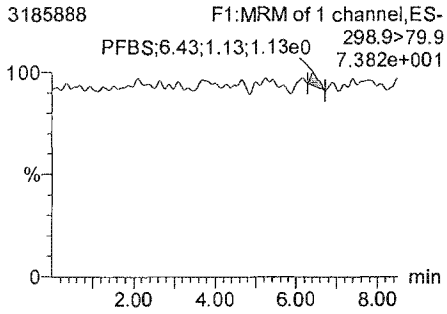
SS-13C2-PFHxA



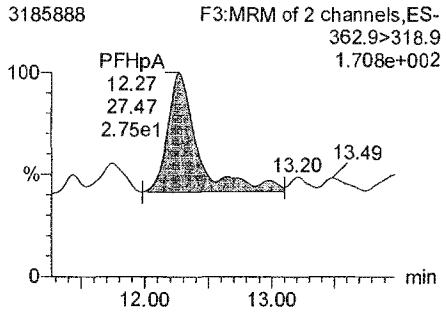
SS-13C2-PFDA



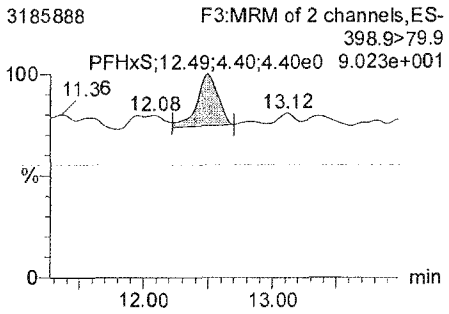
PFBS



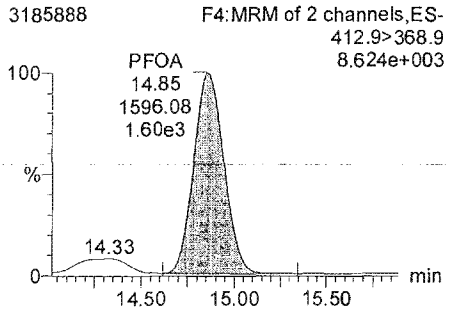
PFHpA



PFHxS



PFOA



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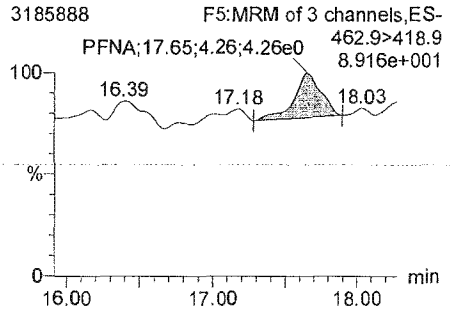
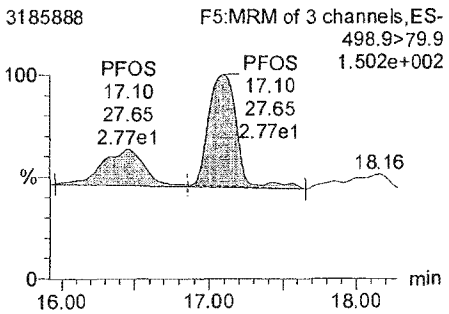


PFOS



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Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: 3185888D, Date: 16-Feb-2015, Time: 20:58:16, ID: 3185888, Description:

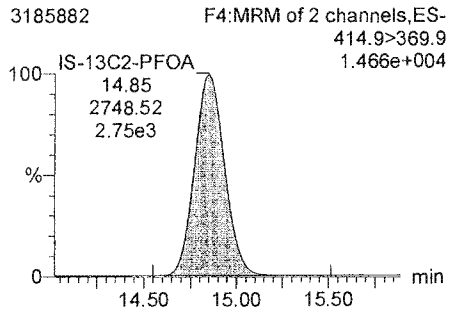
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.85	2883.25		9.700	440.789138	90.9	bb			
2	IS-13C4-PFOS	17.07	2852.48		9.700	914.106707	94.2	bb			
3	SS-13C2-PFHxA	9.20	2672.14	1	9.700	481.917040	99.4	bb			
4	SS-13C2-PFDA	18.93	1904.63	1	9.700	994.681054	102.5	bb			
5	PFBS	6.43	1.13	2	9.700	0.292808		bb			
6	PFHpA	12.27	27.47	1	9.700	9.650623		bd			
7	PFHxS	12.49	4.40	2	9.700	1.019921		db			
8	PFOA	14.85	1596.08	1	9.700	385.066201		bd			
9	PFNA	17.65	4.26	1	9.700	2.107757		bb			
10	PFOS	17.10	27.65	2	9.700	9.783091		MM	SP-CM	17-Feb-15	10:26:47

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

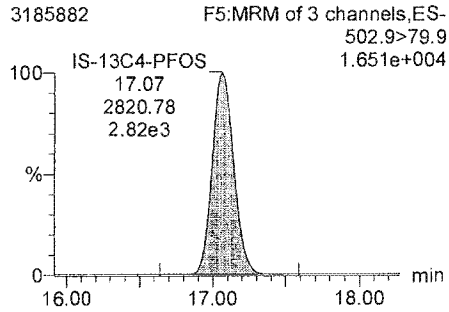
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: 3185882D, Date: 16-Feb-2015, Time: 21:29:03, ID: 3185882, Description:

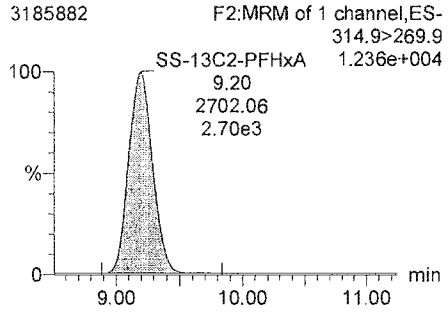
IS-13C2-PFOA



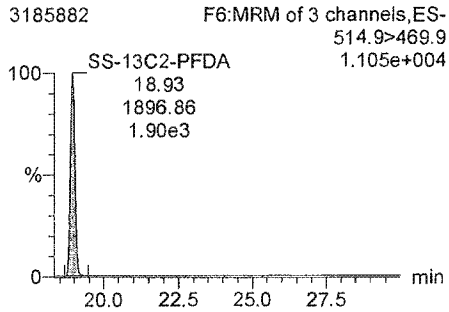
IS-13C4-PFOS



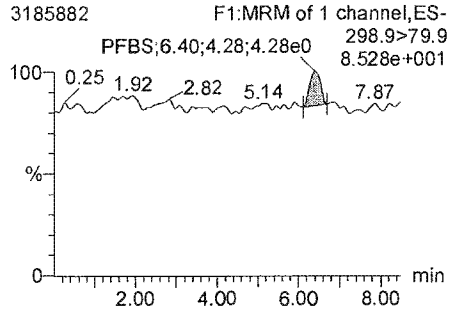
SS-13C2-PFHxA



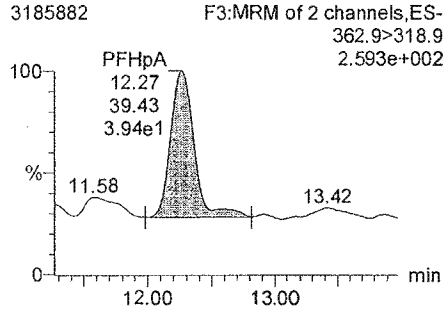
SS-13C2-PFDA



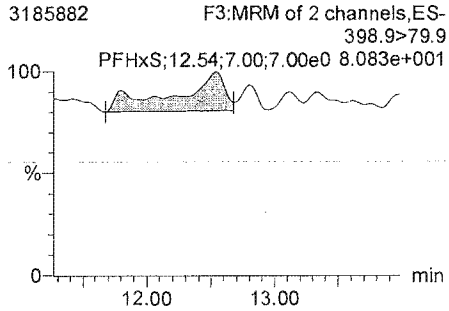
PFBS



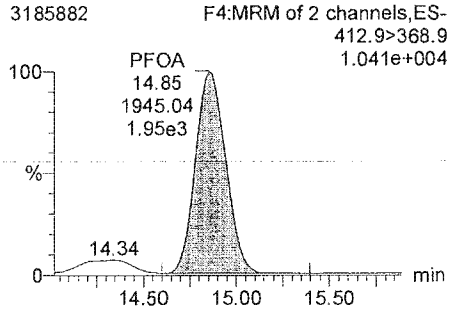
PFHpA



PFHxS



PFOA



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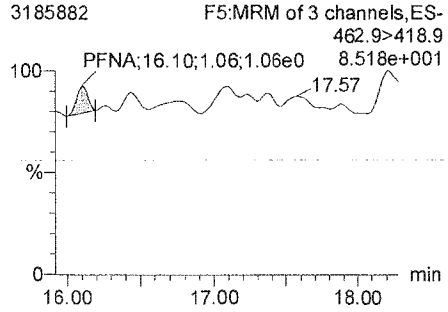
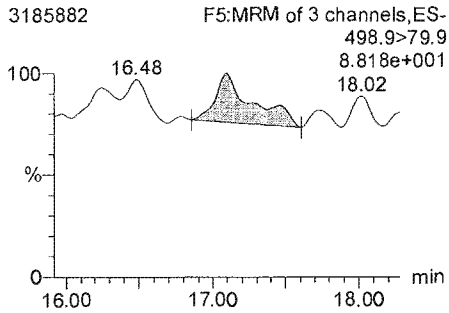


PFOS



Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: 3185882D, Date: 16-Feb-2015, Time: 21:29:03, ID: 3185882, Description:

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1	IS-13C2-PFOA	14.85	2748.52		9.700	420.190812	86.6	bb			
2	IS-13C4-PFOS	17.07	2820.78		9.700	903.948431	93.2	bb			
3	SS-13C2-PFHxA	9.20	2702.06	1	9.700	511.200870	105.4	bb			
4	SS-13C2-PFDA	18.93	1896.86	1	9.700	1039.187110	107.1	bb			
5	PFBS	6.40	4.28	2	9.700	1.125280		bb			
6	PFHpA	12.27	39.43	1	9.700	14.533944		bb			
7	PFHxS	12.54	7.00	2	9.700	1.641817		bd			
8	PFOA	14.85	1945.04	1	9.700	492.260263		bb			
9	PFNA	16.10	1.06	1	9.700	0.551603		bb			
10	PFOS	17.10	6.28	2	9.700	2.246156		bb			

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
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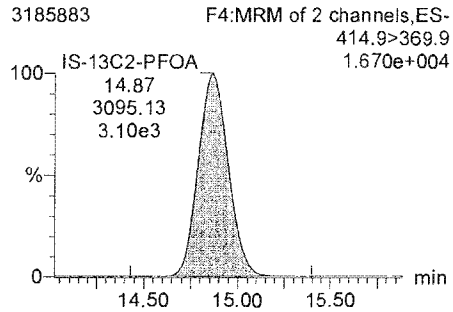
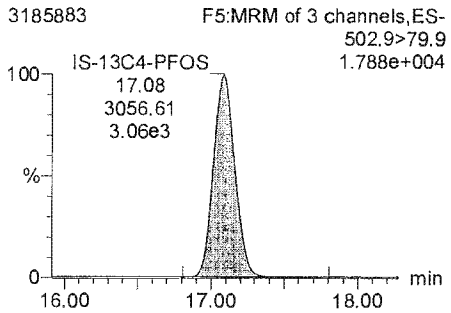
Name: 3185882-LFSMHD, Date: 16-Feb-2015, Time: 21:59:58, ID: 3185883, Description:

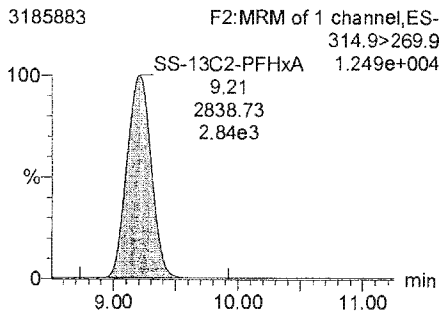
IS-13C2-PFOA



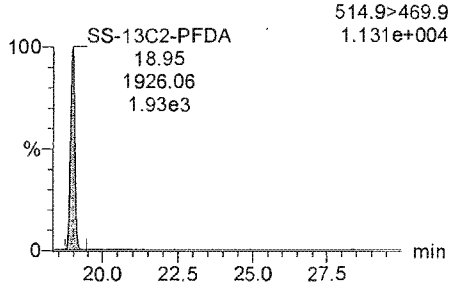
IS-13C4-PFOS



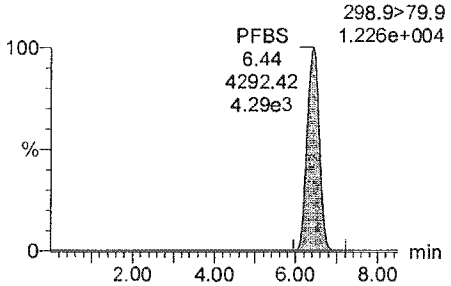
SS-13C2-PFHxA



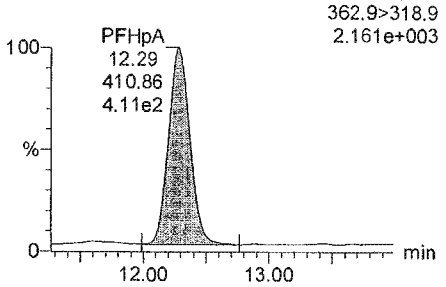
SS-13C2-PFDA



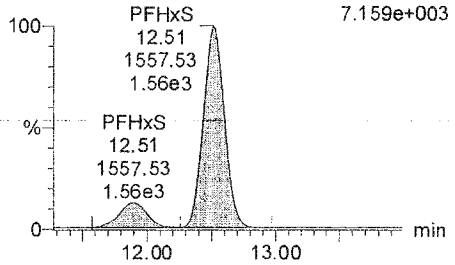
PFBS



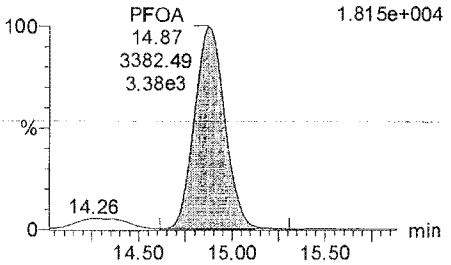
PFHpA



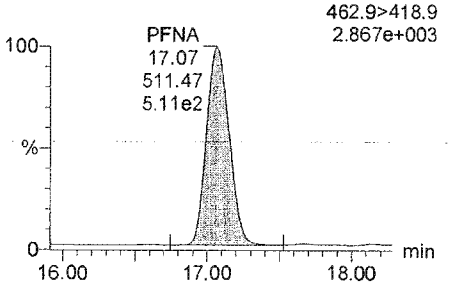
PFHxS



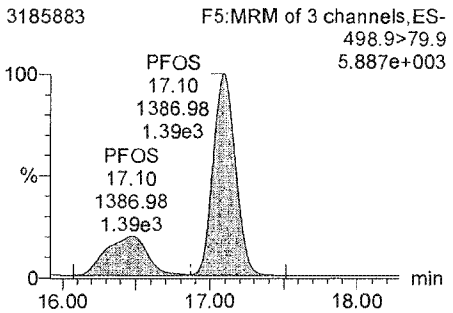
PFOA



PFNA



PFOS



Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: 3185882-LFSMHD, Date: 16-Feb-2015, Time: 21:59:58, ID: 3185883, Description:

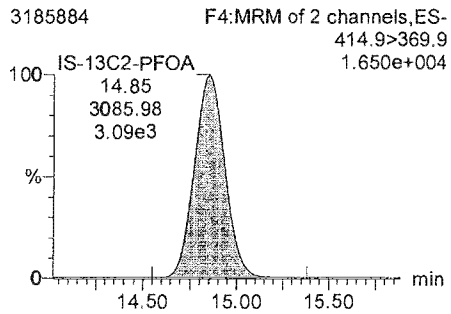
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	3095.13		10.000	487.815644	97.6	bb			
2	IS-13C4-PFOS	17.08	3056.61		10.000	1009.817794	101.0	bb			
3	SS-13C2-PFHxA	9.21	2838.73	1	10.000	491.663940	98.3	bb			
4	SS-13C2-PFDA	18.95	1926.06	1	10.000	965.997182	96.6	bb			
5	PFBS	6.44	4292.42	2	10.000	1072.929909	9.5	bb			
6	PFHpA	12.29	410.86	1	10.000	138.629600	11.1	db			
7	PFHxS	12.51	1557.53	2	10.000	347.502917	9.3	MM	SP-CM	17-Feb-15	10:24:35
8	PFOA	14.87	3382.49	1	10.000	783.699351	31.3	bb			
9	PFNA	17.07	511.47	1	10.000	242.974553	9.7	bd			
10	PFOS	17.10	1386.98	2	10.000	472.113590	9.4	MM	SP-CM	17-Feb-15	10:26:56

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

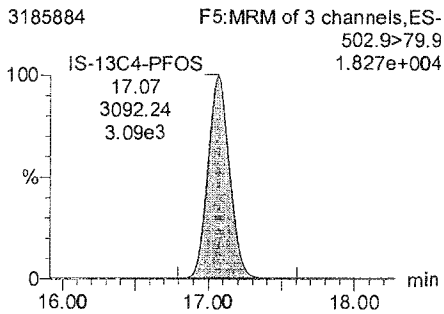
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: 3185882-LFSMDHD, Date: 16-Feb-2015, Time: 22:30:55, ID: 3185884, Description:

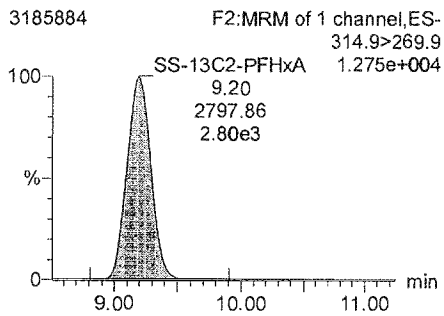
IS-13C2-PFOA



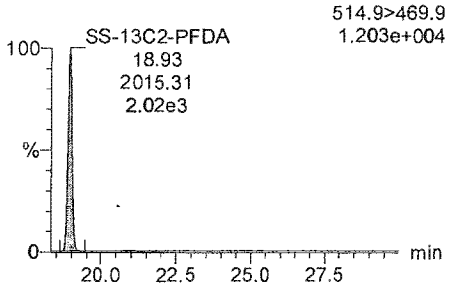
IS-13C4-PFOS



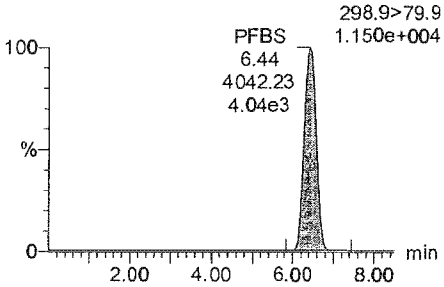
SS-13C2-PFHxA



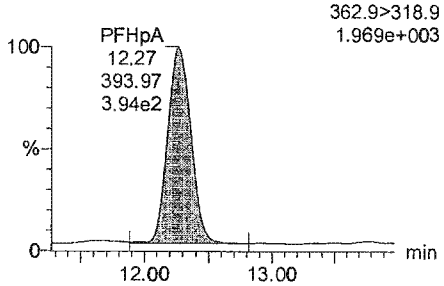
SS-13C2-PFDA



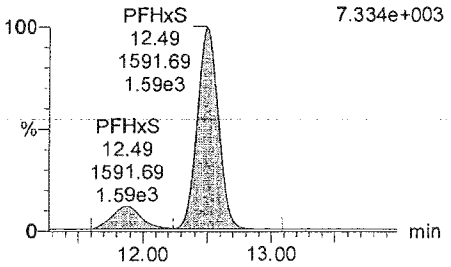
PFBS



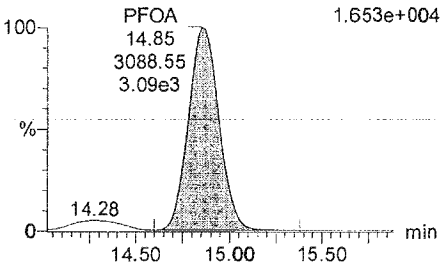
PFHpA



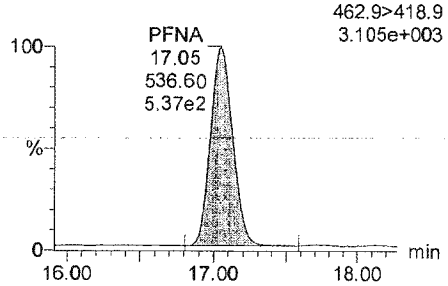
PFHxS



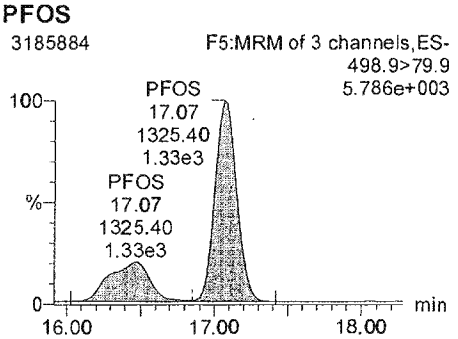
PFOA



PFNA



PFOS



Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: 3185882-LFSMDHD, Date: 16-Feb-2015, Time: 22:30:55, ID: 3185884, Description:

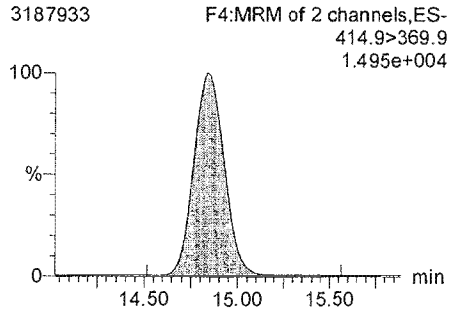
#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.85	3085.98		10.000	486.373063	97.3	bb			
2	IS-13C4-PFOS	17.07	3092.24		10.000	1021.587943	102.2	bb			
3	SS-13C2-PFHxA	9.20	2797.86	1	10.000	486.022248	97.2	bb			
4	SS-13C2-PFDA	18.93	2015.31	1	10.000	1013.753970	101.4	bb			
5	PFBS	6.44	4042.23	2	10.000	998.753109	8.9	bb			
6	PFHpA	12.27	393.97	1	10.000	133.323298	10.7	db			
7	PFHxS	12.49	1591.69	2	10.000	351.031981	9.4	MM	SP-CM	17-Feb-15	10:24:40
8	PFOA	14.85	3088.55	1	10.000	717.717995	28.7	bb			
9	PFNA	17.05	536.60	1	10.000	255.667236	10.2	bd			
10	PFOS	17.07	1325.40	2	10.000	445.954172	8.9	MM	SP-CM	17-Feb-15	10:27:01

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

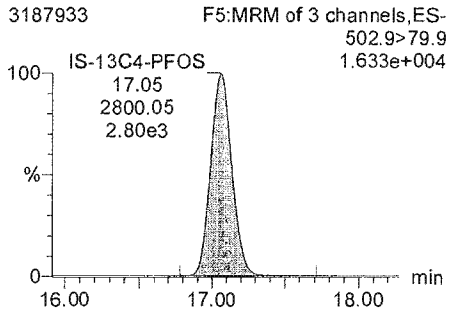
Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: CCH-125-A, Date: 16-Feb-2015, Time: 23:01:50, ID: 3187933, Description:

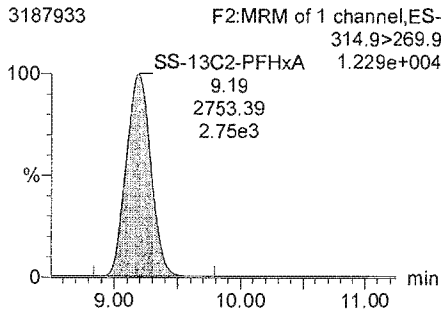
IS-13C2-PFOA



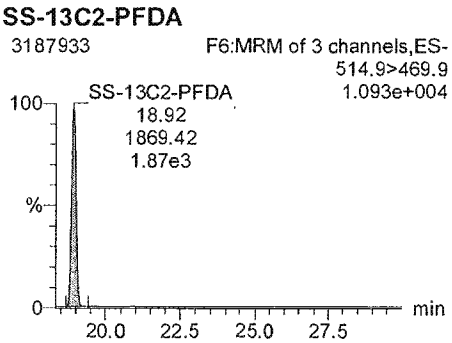
IS-13C4-PFOS



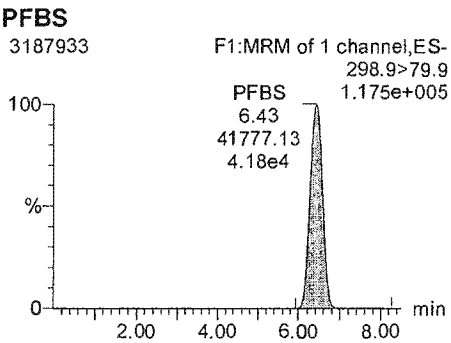
SS-13C2-PFHxA



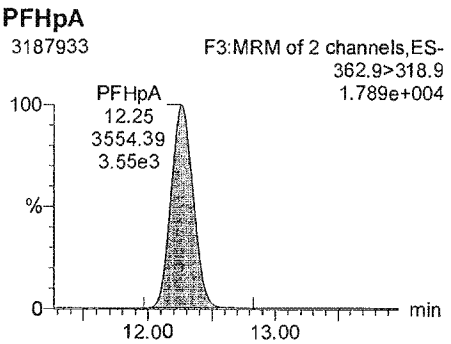
SS-13C2-PFDA



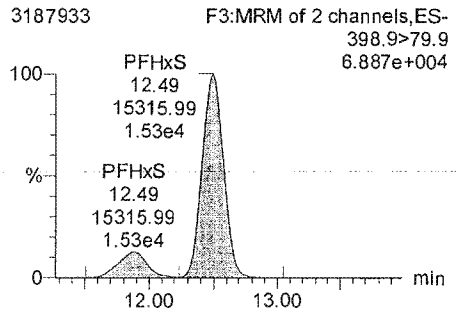
PFBS



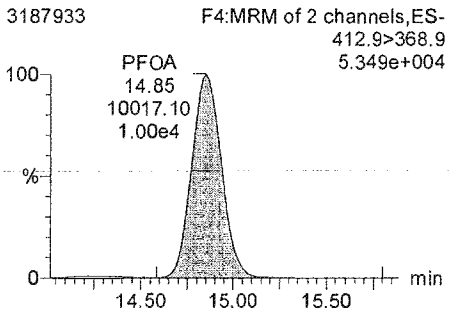
PFHpA



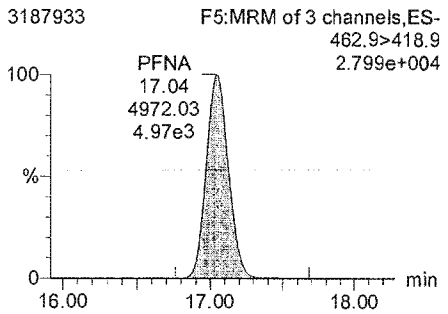
PFHxS



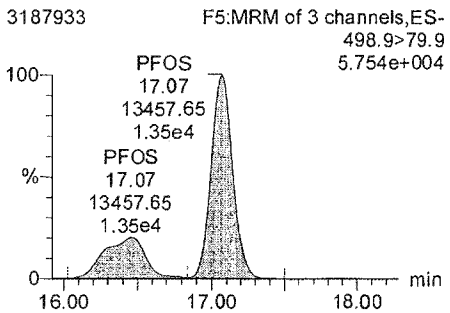
PFOA



PFNA



PFOS



UCMR3 PFAAs by ESI/LC/MS/MS

Dataset: C:\CY\537\021615M537a.pro\021615M537a.qld

Last Altered: Tuesday, February 17, 2015 10:27:07 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:29:58 Eastern Standard Time

Name: CCH-125-A, Date: 16-Feb-2015, Time: 23:01:50, ID: 3187933, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.84	2785.53		1.000	43.902040	87.8	bb			
2	IS-13C4-PFOS	17.05	2800.05		1.000	92.505700	92.5	bb			
3	SS-13C2-PFHxA	9.19	2753.39	1	1.000	52.988652	106.0	bb			
4	SS-13C2-PFDA	18.92	1869.42	1	1.000	104.179688	104.2	bb			
5	PFBS	6.43	41777.13	2	1.000	1139.941921	101.3	bb			
6	PFHpA	12.25	3554.39	1	1.000	133.258974	106.6	dd			
7	PFHxS	12.49	15315.99	2	1.000	373.028033	99.5	MM	SP-CM	17-Feb-15	10:24:46
8	PFOA	14.85	10017.10	1	1.000	257.884695	103.2	bb			
9	PFNA	17.04	4972.03	1	1.000	262.449442	105.0	bb			
10	PFOS	17.07	13457.65	2	1.000	500.056985	100.0	MM	SP-CM	17-Feb-15	10:27:07

Dataset: Untitled

Last Altered: Tuesday, February 17, 2015 10:30:58 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:31:08 Eastern Standard Time

Method: C:\CY\537\021615M537a.pro\MethDB\021615M537a.mdb 05 Feb 2015 07:55:25
Calibration: 17 Feb 2015 10:30:57

Name: LIB-A, Date: 16-Feb-2015, Time: 11:10:55, ID: 3187919, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	15.02	3563.05		1.000	56.156313	112.3	bb			
2	IS-13C4-PFOS	17.24	3328.42		1.000	109.961610	110.0	bb			
3	SS-13C2-PFHxA	9.36	3248.35	1	1.000	48.872460	97.7	bb			
4	SS-13C2-PFDA	19.10	2229.75	1	1.000	97.144379	97.1	bb			
5	PFBS	6.55	6.32	2	1.000	0.144959		bb			
6	PFHpA	12.61	2.22	1	1.000	0.065156		bb			
7	PFHxS	12.64	1.85	2	1.000	0.044633		bb			
8	PFOA	15.07	8.93	1	1.000	0.179811		bd			
9	PFNA	17.20	2.32	1	1.000	0.095738		db			
10	PFOS	17.24	4.79	2	1.000	0.205974		bb			

Name: I-10-A, Date: 16-Feb-2015, Time: 11:41:50, ID: 3187923, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	15.00	3191.29		1.000	50.297054	100.6	bb			
2	IS-13C4-PFOS	17.22	3071.86		1.000	101.485563	101.5	bb			
3	SS-13C2-PFHxA	9.32	3083.37	1	1.000	51.794415	103.6	bb			
4	SS-13C2-PFDA	19.09	2055.43	1	1.000	99.981960	100.0	bb			
5	PFBS	6.55	3599.17	2	1.000	89.518180	99.5	bb			
6	PFHpA	12.41	327.16	1	1.000	10.706151	107.1	bb			
7	PFHxS	12.64	1243.68	2	1.000	32.493246	108.3	bb			
8	PFOA	15.00	965.25	1	1.000	21.690307	108.5	db			
9	PFNA	17.21	445.35	1	1.000	20.518956	102.6	bd			
10	PFOS	17.22	911.80	2	1.000	42.447222	106.1	bb			

Name: I-25-A, Date: 16-Feb-2015, Time: 12:12:45, ID: 3187924, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.97	3342.87		1.000	52.686098	105.4	bb			
2	IS-13C4-PFOS	17.19	3099.83		1.000	102.409513	102.4	bb			
3	SS-13C2-PFHxA	9.30	3046.91	1	1.000	48.861041	97.7	bb			
4	SS-13C2-PFDA	19.06	2038.07	1	1.000	94.641912	94.6	bb			
5	PFBS	6.53	9274.29	2	1.000	228.587770	101.6	bd			
6	PFHpA	12.39	785.97	1	1.000	24.554067	98.2	db			
7	PFHxS	12.63	2992.90	2	1.000	77.489158	103.3	bb			
8	PFOA	14.99	2322.66	1	1.000	49.826317	99.7	bb			
9	PFNA	17.17	1136.39	1	1.000	49.983489	100.0	bb			
10	PFOS	17.19	2173.57	2	1.000	100.274159	100.3	bb			

Dataset: Untitled

Last Altered: Tuesday, February 17, 2015 10:30:58 Eastern Standard Time
Printed: Tuesday, February 17, 2015 10:31:08 Eastern Standard Time

Name: I-50-A, Date: 16-Feb-2015, Time: 12:43:40, ID: 3187925, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.97	3243.77		1.000	51.124225	102.2	bb			
2	IS-13C4-PFOS	17.18	3117.17		1.000	102.982543	103.0	bb			
3	SS-13C2-PFHxA	9.30	2988.78	1	1.000	49.393221	98.8	bb			
4	SS-13C2-PFDA	19.04	2147.75	1	1.000	102.782380	102.8	bb			
5	PFBS	6.53	17768.77	2	1.000	435.518265	96.8	bb			
6	PFHpA	12.39	1549.48	1	1.000	49.885604	99.8	bb			
7	PFHxS	12.61	5643.64	2	1.000	145.306613	96.9	bb			
8	PFOA	14.97	4491.73	1	1.000	99.301481	99.3	bb			
9	PFNA	17.16	2204.97	1	1.000	99.947403	99.9	bd			
10	PFOS	17.19	4284.11	2	1.000	196.540567	98.3	bb			

Name: I-75-A, Date: 16-Feb-2015, Time: 13:14:36, ID: 3187926, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.95	3123.38		1.000	49.226758	98.5	bb			
2	IS-13C4-PFOS	17.18	3060.62		1.000	101.114225	101.1	bb			
3	SS-13C2-PFHxA	9.29	2945.15	1	1.000	50.548256	101.1	bb			
4	SS-13C2-PFDA	19.04	2036.71	1	1.000	101.225144	101.2	bb			
5	PFBS	6.52	27764.42	2	1.000	693.089111	102.7	bb			
6	PFHpA	12.37	2313.28	1	1.000	77.346927	103.1	bb			
7	PFHxS	12.59	8597.74	2	1.000	225.455930	100.2	bb			
8	PFOA	14.97	6789.98	1	1.000	155.896374	103.9	db			
9	PFNA	17.16	3248.84	1	1.000	152.940641	102.0	bb			
10	PFOS	17.18	6507.59	2	1.000	304.062332	101.4	bb			

Name: I-100-A, Date: 16-Feb-2015, Time: 13:45:25, ID: 3187927, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.95	3058.20		1.000	48.199520	96.4	bb			
2	IS-13C4-PFOS	17.16	2898.57		1.000	95.760521	95.8	bb			
3	SS-13C2-PFHxA	9.28	2879.56	1	1.000	50.475770	101.0	bb			
4	SS-13C2-PFDA	19.02	1994.04	1	1.000	101.216816	101.2	bb			
5	PFBS	6.51	35101.07	2	1.000	925.223221	102.8	bb			
6	PFHpA	12.35	3046.98	1	1.000	104.050159	104.1	db			
7	PFHxS	12.59	11121.64	2	1.000	307.944140	102.6	bb			
8	PFOA	14.95	8698.06	1	1.000	203.961415	102.0	bb			
9	PFNA	17.14	4263.88	1	1.000	205.002241	102.5	bb			
10	PFOS	17.17	8156.72	2	1.000	402.424174	100.6	bb			

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Name: I-125-A, Date: 16-Feb-2015, Time: 14:16:20, ID: 3187928, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.94	3168.55		1.000	49.938718	99.9	bb			
2	IS-13C4-PFOS	17.14	3068.08		1.000	101.360550	101.4	bb			
3	SS-13C2-PFHxA	9.28	2942.69	1	1.000	49.785969	99.6	bb			
4	SS-13C2-PFDA	19.02	2045.41	1	1.000	100.208338	100.2	bb			
5	PFBS	6.50	44701.81	2	1.000	1113.188642	99.0	bb			
6	PFHpA	12.35	3764.99	1	1.000	124.091536	99.3	bd			
7	PFHxS	12.57	14263.48	2	1.000	373.118061	99.5	bb			
8	PFOA	14.94	10991.87	1	1.000	248.772670	99.5	bb			
9	PFNA	17.14	5456.07	1	1.000	253.185586	101.3	db			
10	PFOS	17.16	10713.84	2	1.000	499.379895	99.9	bb			

Name: I-150-A, Date: 16-Feb-2015, Time: 14:47:16, ID: 3187929, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	3079.02		1.000	48.527627	97.1	bb			
2	IS-13C4-PFOS	17.14	2872.13		1.000	94.887084	94.9	bb			
3	SS-13C2-PFHxA	9.26	2822.51	1	1.000	49.141328	98.3	bb			
4	SS-13C2-PFDA	19.01	1982.36	1	1.000	99.943450	99.9	bb			
5	PFBS	6.49	49992.54	2	1.000	1329.874811	98.5	bb			
6	PFHpA	12.34	4256.35	1	1.000	144.365555	96.2	dd			
7	PFHxS	12.56	15860.25	2	1.000	443.192852	98.5	bb			
8	PFOA	14.94	12475.09	1	1.000	290.551436	96.9	bb			
9	PFNA	17.13	6039.77	1	1.000	288.421685	96.1	bd			
10	PFOS	17.14	11947.46	2	1.000	594.871652	99.1	bb			

Name: LIB-B, Date: 16-Feb-2015, Time: 15:18:11, ID: 3187920, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.90	3240.49		1.000	51.072451	102.1	bb			
2	IS-13C4-PFOS	17.13	3159.75		1.000	104.389034	104.4	bb			
3	SS-13C2-PFHxA	9.25	3052.65	1	1.000	50.499891	101.0	bb			
4	SS-13C2-PFDA	18.99	2140.88	1	1.000	102.557281	102.6	bb			
5	PFBS	6.52	1.60	2	1.000	0.038567		bb			
6	PFHpA	12.34	1.08	1	1.000	0.034774		bd			
7	PFHxS	12.54	1.28	2	1.000	0.032487		bb			
8	PFOA	15.14	7.51	1	1.000	0.166108		bb			
9	PFNA	17.14	3.13	1	1.000	0.141840		dd			
10	PFOS	17.13	1.96	2	1.000	0.088526		bb			

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Name: CCL-10-A, Date: 16-Feb-2015, Time: 15:49:07, ID: 3187932, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.92	2966.77		1.000	46.758548	93.5	bb			
2	IS-13C4-PFOS	17.13	2905.22		1.000	95.980350	96.0	bb			
3	SS-13C2-PFHxA	9.25	2820.24	1	1.000	50.959451	101.9	bb			
4	SS-13C2-PFDA	18.99	2037.67	1	1.000	106.618885	106.6	bb			
5	PFBS	6.48	3578.34	2	1.000	94.104941	104.6	bb			
6	PFHpA	12.34	311.04	1	1.000	10.948876	109.5	db			
7	PFHxS	12.56	1143.57	2	1.000	31.591551	105.3	bb			
8	PFOA	14.92	867.98	1	1.000	20.980490	104.9	bb			
9	PFNA	17.11	435.74	1	1.000	21.595475	108.0	bb			
10	PFOS	17.14	855.94	2	1.000	42.132223	105.3	bb			

Name: UQCM-75-A, Date: 16-Feb-2015, Time: 16:20:03, ID: 3187931, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.90	2778.38		1.000	43.789335	87.6	bb			
2	IS-13C4-PFOS	17.11	2660.67		1.000	87.901079	87.9	bb			
3	SS-13C2-PFHxA	9.25	2617.44	1	1.000	50.501921	101.0	bb			
4	SS-13C2-PFDA	18.98	1829.42	1	1.000	102.213011	102.2	bb			
5	PFBS	6.49	20366.59	2	1.000	584.839669	86.6	bd			
6	PFHpA	12.32	2055.78	1	1.000	77.272405	103.0	bb			
7	PFHxS	12.54	7037.56	2	1.000	212.284168	94.3	bb			
8	PFOA	14.90	5577.68	1	1.000	143.963796	96.0	db			
9	PFNA	17.10	2796.42	1	1.000	147.989170	98.7	bb			
10	PFOS	17.11	6070.45	2	1.000	326.273331	108.8	bb			

Name: LIB-C, Date: 16-Feb-2015, Time: 16:50:58, ID: 3187921, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	3206.88		1.000	50.542717	101.1	bb			
2	IS-13C4-PFOS	17.11	3089.80		1.000	102.078052	102.1	bb			
3	SS-13C2-PFHxA	9.23	2989.18	1	1.000	49.968157	99.9	bb			
4	SS-13C2-PFDA	18.98	2088.22	1	1.000	101.083339	101.1	bb			
5	PFBS			2	1.000						
6	PFHpA	12.37	2.31	1	1.000	0.075063		bb			
7	PFHxS			2	1.000						
8	PFOA	14.92	3.55	1	1.000	0.079430		bb			
9	PFNA	17.88	2.10	1	1.000	0.096147		bb			
10	PFOS	17.01	5.18	2	1.000	0.239700		bb			

Dataset: Untitled

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Name: 3185724D, Date: 16-Feb-2015, Time: 17:21:54, ID: 3185724, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	3188.54		9.400	472.384595	100.5	bb			
2	IS-13C4-PFOS	17.10	3084.26		9.400	957.815104	101.9	bb			
3	SS-13C2-PFHxA	9.22	2953.50	1	9.400	466.763402	99.3	bb			
4	SS-13C2-PFDA	18.96	2081.55	1	9.400	952.592768	101.3	bb			
5	PFBS	6.44	5.63	2	9.400	1.311676		bb			
6	PFHpA	12.32	47.25	1	9.400	14.548060		bb			
7	PFHxS	12.52	3.98	2	9.400	0.974258		bb			
8	PFOA	14.89	2344.50	1	9.400	495.654251		bb			
9	PFNA	17.16	1.94	1	9.400	0.841793		bb			
10	PFOS	17.16	7.88	2	9.400	3.432255		bb			

Name: 3185729D, Date: 16-Feb-2015, Time: 17:52:50, ID: 3185729, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	3218.14		9.300	471.698136	101.4	bb			
2	IS-13C4-PFOS	17.10	3079.67		9.300	946.215018	101.7	bb			
3	SS-13C2-PFHxA	9.21	2942.58	1	9.300	455.857669	98.0	bb			
4	SS-13C2-PFDA	18.96	2092.39	1	9.300	938.653366	100.9	bb			
5	PFBS	6.48	1.88	2	9.300	0.433757		bb			
6	PFHpA	12.30	32.77	1	9.300	9.889644		dd			
7	PFHxS	12.51	3.47	2	9.300	0.840756		bb			
8	PFOA	14.89	1784.39	1	9.300	369.794698		bb			
9	PFNA	17.01	3.15	1	9.300	1.338895		bd			
10	PFOS	17.11	26.25	2	9.300	11.335148		bd			

Name: 3185723D, Date: 16-Feb-2015, Time: 18:23:46, ID: 3185723, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.89	3172.50		9.500	475.009390	100.0	bb			
2	IS-13C4-PFOS	17.10	3101.89		9.500	973.535972	102.5	bb			
3	SS-13C2-PFHxA	9.22	2891.07	1	9.500	464.091338	97.7	bb			
4	SS-13C2-PFDA	18.96	2061.86	1	9.500	958.440747	100.9	bb			
5	PFBS	6.44	4.58	2	9.500	1.072402		bb			
6	PFHpA	12.30	42.64	1	9.500	13.334537		bd			
7	PFHxS	12.51	3.17	2	9.500	0.778700		db			
8	PFOA	14.89	2329.57	1	9.500	500.253296		bb			
9	PFNA	17.10	1.45	1	9.500	0.637103		bb			
10	PFOS	17.11	6.63	2	9.500	2.903779		bb			

Dataset: Untitled

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Name: 3185723-LFSMHD, Date: 16-Feb-2015, Time: 18:54:41, ID: 3185725, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	3233.09		10.000	509.558212	101.9	bb			
2	IS-13C4-PFOS	17.10	3318.15		10.000	1096.222191	109.6	bb			
3	SS-13C2-PFHxA	9.22	3008.19	1	10.000	498.783267	99.8	bb			
4	SS-13C2-PFDA	18.96	2135.94	1	10.000	1025.549726	102.6	bb			
5	PFBS	6.46	4359.54	2	10.000	1003.816768	8.9	bb			
6	PFHpA	12.29	424.88	1	10.000	137.241076	11.0	db			
7	PFHxS	12.52	1424.17	2	10.000	344.470305	9.2	bb			
8	PFOA	14.89	3433.70	1	10.000	761.618716	30.5	bb			
9	PFNA	17.08	572.76	1	10.000	260.480960	10.4	bb			
10	PFOS	17.10	1047.26	2	10.000	451.348568	9.0	bb			

Name: 3185723-LFSMDHD, Date: 16-Feb-2015, Time: 19:25:36, ID: 3185726, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	3190.79		10.000	502.891735	100.6	bb			
2	IS-13C4-PFOS	17.10	3217.45		10.000	1062.953441	106.3	bb			
3	SS-13C2-PFHxA	9.21	3003.82	1	10.000	504.660086	100.9	bb			
4	SS-13C2-PFDA	18.96	2067.46	1	10.000	1005.827944	100.6	bb			
5	PFBS	6.45	4424.47	2	10.000	1050.653432	9.3	bb			
6	PFHpA	12.29	400.79	1	10.000	131.178431	10.5	bb			
7	PFHxS	12.52	1365.75	2	10.000	340.681071	9.1	bd			
8	PFOA	14.88	3251.64	1	10.000	730.795937	29.2	bb			
9	PFNA	17.07	512.50	1	10.000	236.165102	9.4	bb			
10	PFOS	17.10	1013.82	2	10.000	450.612489	9.0	bb			

Name: LIB-D, Date: 16-Feb-2015, Time: 19:56:24, ID: 3187922, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	3088.17		1.000	48.671822	97.3	bb			
2	IS-13C4-PFOS	17.08	3069.69		1.000	101.413872	101.4	bb			
3	SS-13C2-PFHxA	9.21	2892.18	1	1.000	50.205067	100.4	bb			
4	SS-13C2-PFDA	18.95	1987.24	1	1.000	99.892862	99.9	bb			
5	PFBS			2	1.000						
6	PFHpA	12.24	4.15	1	1.000	0.140206		db			
7	PFHxS			2	1.000						
8	PFOA	14.87	3.54	1	1.000	0.082181		bb			
9	PFNA	16.67	1.86	1	1.000	0.088702		bb			
10	PFOS	17.07	1.71	2	1.000	0.079662		bb			

Dataset: Untitled

Last Altered: Tuesday, February 17, 2015 10:30:58 Eastern Standard Time
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Name: 3185881D, Date: 16-Feb-2015, Time: 20:27:20, ID: 3185881, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.85	3062.05		10.000	482.600888	96.5	bb			
2	IS-13C4-PFOS	17.08	3081.90		10.000	1018.172562	101.8	bb			
3	SS-13C2-PFHxA	9.20	2869.80	1	10.000	502.415526	100.5	bb			
4	SS-13C2-PFDA	18.95	1960.08	1	10.000	993.678988	99.4	bb			
5	PFBS	6.44	4.88	2	10.000	1.210041		bb			
6	PFHpA	12.27	42.07	1	10.000	14.346925		dd			
7	PFHxS	12.49	4.39	2	10.000	1.143489		dd			
8	PFOA	14.87	2035.09	1	10.000	476.611096		bb			
9	PFNA	17.59	1.77	1	10.000	0.848006		bb			
10	PFOS	17.07	4.42	2	10.000	2.051881		db			

Name: 3185888D, Date: 16-Feb-2015, Time: 20:58:16, ID: 3185888, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.85	2883.25		9.700	440.789138	90.9	bb			
2	IS-13C4-PFOS	17.07	2852.48		9.700	914.106707	94.2	bb			
3	SS-13C2-PFHxA	9.20	2672.14	1	9.700	481.917040	99.4	bb			
4	SS-13C2-PFDA	18.93	1904.63	1	9.700	994.681054	102.5	bb			
5	PFBS	6.43	1.13	2	9.700	0.292808		bb			
6	PFHpA	12.27	27.47	1	9.700	9.650623		bd			
7	PFHxS	12.49	4.40	2	9.700	1.200305		db			
8	PFOA	14.85	1596.08	1	9.700	385.066201		bd			
9	PFNA	17.65	4.26	1	9.700	2.107757		bb			
10	PFOS	17.10	17.99	2	9.700	8.750426		bb			

Name: 3185882D, Date: 16-Feb-2015, Time: 21:29:03, ID: 3185882, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.85	2748.52		9.700	420.190812	86.6	bb			
2	IS-13C4-PFOS	17.07	2820.78		9.700	903.948431	93.2	bb			
3	SS-13C2-PFHxA	9.20	2702.06	1	9.700	511.200870	105.4	bb			
4	SS-13C2-PFDA	18.93	1896.86	1	9.700	1039.187110	107.1	bb			
5	PFBS	6.40	4.28	2	9.700	1.125280		bb			
6	PFHpA	12.27	39.43	1	9.700	14.533944		bb			
7	PFHxS	12.54	7.00	2	9.700	1.932189		bd			
8	PFOA	14.85	1945.04	1	9.700	492.260263		bb			
9	PFNA	16.10	1.06	1	9.700	0.551603		bb			
10	PFOS	17.10	6.28	2	9.700	3.087280		bb			

Dataset: Untitled

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Name: 3185882-LFSMHD, Date: 16-Feb-2015, Time: 21:59:58, ID: 3185883, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.87	3095.13		10.000	487.815644	97.6	bb			
2	IS-13C4-PFOS	17.08	3056.61		10.000	1009.817794	101.0	bb			
3	SS-13C2-PFHxA	9.21	2838.73	1	10.000	491.663940	98.3	bb			
4	SS-13C2-PFDA	18.95	1926.06	1	10.000	965.997182	96.6	bb			
5	PFBS	6.44	4292.42	2	10.000	1072.929909	9.5	bb			
6	PFHpA	12.29	410.86	1	10.000	138.629600	11.1	db			
7	PFHxS	12.51	1343.79	2	10.000	352.838961	9.4	bb			
8	PFOA	14.87	3382.49	1	10.000	783.699351	31.3	bb			
9	PFNA	17.07	511.47	1	10.000	242.974553	9.7	bd			
10	PFOS	17.10	1014.36	2	10.000	474.574526	9.5	bb			

Name: 3185882-LFSMDHD, Date: 16-Feb-2015, Time: 22:30:55, ID: 3185884, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.85	3085.98		10.000	486.373063	97.3	bb			
2	IS-13C4-PFOS	17.07	3092.24		10.000	1021.587943	102.2	bb			
3	SS-13C2-PFHxA	9.20	2797.86	1	10.000	486.022248	97.2	bb			
4	SS-13C2-PFDA	18.93	2015.31	1	10.000	1013.753970	101.4	bb			
5	PFBS	6.44	4042.23	2	10.000	998.753109	8.9	bb			
6	PFHpA	12.27	393.97	1	10.000	133.323298	10.7	db			
7	PFHxS	12.49	1379.66	2	10.000	358.085738	9.5	bb			
8	PFOA	14.85	3088.55	1	10.000	717.717995	28.7	bb			
9	PFNA	17.05	536.60	1	10.000	255.667236	10.2	bd			
10	PFOS	17.07	972.54	2	10.000	449.765065	9.0	bb			

Name: CCH-125-A, Date: 16-Feb-2015, Time: 23:01:50, ID: 3187933, Description:

#	Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod.Date	Mod.Time
1	IS-13C2-PFOA	14.84	2785.53		1.000	43.902040	87.8	bb			
2	IS-13C4-PFOS	17.05	2800.05		1.000	92.505700	92.5	bb			
3	SS-13C2-PFHxA	9.19	2753.39	1	1.000	52.988652	106.0	bb			
4	SS-13C2-PFDA	18.92	1869.42	1	1.000	104.179688	104.2	bb			
5	PFBS	6.43	41777.13	2	1.000	1139.941921	101.3	bb			
6	PFHpA	12.25	3554.39	1	1.000	133.258974	106.6	dd			
7	PFHxS	12.49	13079.77	2	1.000	374.905156	100.0	bb			
8	PFOA	14.85	10017.10	1	1.000	257.884695	103.2	bb			
9	PFNA	17.04	4972.03	1	1.000	262.449442	105.0	bb			
10	PFOS	17.07	9801.99	2	1.000	500.611366	100.1	bb			

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 320-11644-1

Job Description: Village of Hoosick Falls

For:
CT Male Associates PC
50 Century Hill Dr
Latham, NY 12110

Attention: Dan Reilly

Approved for release.
Jill Kellmann
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ED_001342_00001134-00148

Definitions/Glossary

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Qualifiers

LCMS

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)

Receipt
The samples were received on 2/12/2015 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

LCMS
The following samples are reported at a dilution due to matrix interference with one or both of the surrogates. One analyte also required dilution doe to elevated concentrations. The matrix intereference was confirmed by re-analysis. Only the second analysis is reported due to failing QC criteria in the CCV's of the first analysis. Well 6 (320-11644-7), Well 7 (320-11644-2), Well 7 (320-11644-2 MS), Well 7 (320-11644-2 MSD)

The surrogate recovery for the following samples was outside control limits: Field Equipment Blank (320-11644-3). Evidence of matrix interference is present as shown by re-analysis; therefore, re-extraction was not performed. The results for the re-analysis are reported due to failed QC criteria for the CCV's of the first analysis.

Due to the high concentration of perfluorooctanoic acid, the matrix spike / matrix spike duplicate (MS/MSD) for batch 65881 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The surrogate recovery for the closing CCV associated with the following samples was outside control limits: (CCV 320-66293/33), (LCS 320-65881/2-A), (MB 320-65881/1-A), Finished Water (320-11644-1), Well 7 (320-11644-2). Evidence of matrix interference is present as shown by re-analysis; therefore, re-extraction was not performed. The results for the re-analysis are reported due to failed QC criteria for the CCV's of the first analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

ED_001342_00001134-00150

Detection Summary

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Client Sample ID: Finished Water — Lab Sample ID: 320-11644-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.96		0.20	0.093	ug/L	10		537	Total/NA

Client Sample ID: Well 7 — Lab Sample ID: 320-11644-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	1.0		0.20	0.094	ug/L	10		537	Total/NA

Client Sample ID: Field Equipment Blank — Lab Sample ID: 320-11644-3

No Detections.

Client Sample ID: Lab Trip Blanks — Lab Sample ID: 320-11644-4

No Detections.

Client Sample ID: Well 3 — Lab Sample ID: 320-11644-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.0053	J	0.0097	0.0045	ug/L	1		537	Total/NA
Perfluorooctanoic acid (PFOA) - DL	0.27		0.097	0.046	ug/L	5		537	Total/NA

Client Sample ID: Well 10 — Lab Sample ID: 320-11644-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.0053	J	0.0097	0.0045	ug/L	1		537	Total/NA
Perfluorooctanoic acid (PFOA) - DL	0.29		0.097	0.046	ug/L	5		537	Total/NA

Client Sample ID: Well 6 — Lab Sample ID: 320-11644-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.74		0.19	0.091	ug/L	10		537	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.066	J	0.096	0.044	ug/L	10		537	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Client Sample ID: Finished Water

Lab Sample ID: 320-11644-1
Date Collected: 02/11/15 09:39
Matrix: Water
Date Received: 02/12/15 10:20

Method: 537 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonate (PFOS)	ND		0.40	0.15	ug/L		02/18/15 09:18	02/23/15 16:25	10
Perfluorooctanoic acid (PFOA)	**0.96**		0.20	0.093	ug/L		02/18/15 09:18	02/23/15 16:25	10
Perfluorononanoic acid (PFNA)	ND		0.20	0.11	ug/L		02/18/15 09:18	02/23/15 16:25	10
Perfluorohexanesulfonic acid(PFHxS)	ND		0.30	0.12	ug/L		02/18/15 09:18	02/23/15 16:25	10
Perfluoroheptanoic acid (PFHpA)	ND		0.099	0.045	ug/L		02/18/15 09:18	02/23/15 16:25	10
Perfluorobutanesulfonic acid (PFBS)	ND		0.89	0.47	ug/L		02/18/15 09:18	02/23/15 16:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*104*		*70 - 130*	*02/18/15 09:18*	*02/23/15 16:25*	*10*
13C2 PFDA	*106*		*70 - 130*	*02/18/15 09:18*	*02/23/15 16:25*	*10*

Client Sample ID: Well 7

Lab Sample ID: 320-11644-2
Date Collected: 02/11/15 10:13
Matrix: Water
Date Received: 02/12/15 10:20

Method: 537 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonate (PFOS)	ND		0.40	0.15	ug/L		02/18/15 09:18	02/23/15 16:54	10
Perfluorooctanoic acid (PFOA)	**1.0**		0.20	0.094	ug/L		02/18/15 09:18	02/23/15 16:54	10
Perfluorononanoic acid (PFNA)	ND		0.20	0.11	ug/L		02/18/15 09:18	02/23/15 16:54	10
Perfluorohexanesulfonic acid(PFHxS)	ND		0.30	0.12	ug/L		02/18/15 09:18	02/23/15 16:54	10
Perfluoroheptanoic acid (PFHpA)	ND		0.10	0.046	ug/L		02/18/15 09:18	02/23/15 16:54	10
Perfluorobutanesulfonic acid (PFBS)	ND		0.90	0.47	ug/L		02/18/15 09:18	02/23/15 16:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*101*		*70 - 130*	*02/18/15 09:18*	*02/23/15 16:54*	*10*
13C2 PFDA	*111*		*70 - 130*	*02/18/15 09:18*	*02/23/15 16:54*	*10*

Client Sample ID: Field Equipment Blank

Lab Sample ID: 320-11644-3
Date Collected: 02/11/15 10:36
Matrix: Water
Date Received: 02/12/15 10:20

Method: 537 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonate (PFOS)	ND		0.039	0.015	ug/L		02/18/15 09:18	02/24/15 11:04	1
Perfluorooctanoic acid (PFOA)	ND		0.019	0.0092	ug/L		02/18/15 09:18	02/24/15 11:04	1
Perfluorononanoic acid (PFNA)	ND		0.019	0.011	ug/L		02/18/15 09:18	02/24/15 11:04	1
Perfluorohexanesulfonic acid(PFHxS)	ND		0.029	0.012	ug/L		02/18/15 09:18	02/24/15 11:04	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0097	0.0045	ug/L		02/18/15 09:18	02/24/15 11:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.088	0.046	ug/L		02/18/15 09:18	02/24/15 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*145*	*X*	*70 - 130*	*02/18/15 09:18*	*02/24/15 11:04*	*1*
13C2 PFDA	*147*	*X*	*70 - 130*	*02/18/15 09:18*	*02/24/15 11:04*	*1*

Client Sample Results

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Client Sample ID: Lab Trip Blanks

Lab Sample ID: 320-11644-4

Date Collected: 02/11/15 00:00
Date Received: 02/12/15 10:20

Matrix: Water

Method: 537 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonate (PFOS)	ND		0.039	0.015	ug/L		02/18/15 09:18	02/24/15 11:34	1
Perfluorooctanoic acid (PFOA)	ND		0.020	0.0092	ug/L		02/18/15 09:18	02/24/15 11:34	1
Perfluorononanoic acid (PFNA)	ND		0.020	0.011	ug/L		02/18/15 09:18	02/24/15 11:34	1
Perfluorohexanesulfonic acid(PFHxS)	ND		0.029	0.012	ug/L		02/18/15 09:18	02/24/15 11:34	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0098	0.0045	ug/L		02/18/15 09:18	02/24/15 11:34	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.088	0.046	ug/L		02/18/15 09:18	02/24/15 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*118*		*70 - 130*	*02/18/15 09:18*	*02/24/15 11:34*	*1*
13C2 PFDA	*117*		*70 - 130*	*02/18/15 09:18*	*02/24/15 11:34*	*1*

Client Sample ID: Well 3

Lab Sample ID: 320-11644-5

Date Collected: 02/11/15 10:59
Date Received: 02/12/15 10:20

Matrix: Water

Method: 537 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonate (PFOS)	ND		0.039	0.015	ug/L		02/18/15 09:18	02/24/15 12:33	1
Perfluorononanoic acid (PFNA)	ND		0.019	0.011	ug/L		02/18/15 09:18	02/24/15 12:33	1
Perfluorohexanesulfonic acid(PFHxS)	ND		0.029	0.012	ug/L		02/18/15 09:18	02/24/15 12:33	1
Perfluoroheptanoic acid (PFHpA)	**0.0053**	**J**	0.0097	0.0045	ug/L		02/18/15 09:18	02/24/15 12:33	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.087	0.046	ug/L		02/18/15 09:18	02/24/15 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*122*		*70 - 130*	*02/18/15 09:18*	*02/24/15 12:33*	*1*
13C2 PFDA	*128*		*70 - 130*	*02/18/15 09:18*	*02/24/15 12:33*	*1*

Method: 537 - Perfluorinated Alkyl Acids (LC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	**0.27**		0.097	0.046	ug/L		02/18/15 09:18	02/23/15 18:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*109*		*70 - 130*	*02/18/15 09:18*	*02/23/15 18:23*	*5*
13C2 PFDA	*104*		*70 - 130*	*02/18/15 09:18*	*02/23/15 18:23*	*5*

Client Sample ID: Well 10

Lab Sample ID: 320-11644-6

Date Collected: 02/11/15 11:30
Date Received: 02/12/15 10:20

Matrix: Water

Method: 537 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonate (PFOS)	ND		0.039	0.015	ug/L		02/18/15 09:18	02/24/15 13:02	1
Perfluorononanoic acid (PFNA)	ND		0.019	0.011	ug/L		02/18/15 09:18	02/24/15 13:02	1
Perfluorohexanesulfonic acid(PFHxS)	ND		0.029	0.012	ug/L		02/18/15 09:18	02/24/15 13:02	1
Perfluoroheptanoic acid (PFHpA)	**0.0053**	**J**	0.0097	0.0045	ug/L		02/18/15 09:18	02/24/15 13:02	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.088	0.046	ug/L		02/18/15 09:18	02/24/15 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*114*		*70 - 130*	*02/18/15 09:18*	*02/24/15 13:02*	*1*
13C2 PFDA	*116*		*70 - 130*	*02/18/15 09:18*	*02/24/15 13:02*	*1*

Client Sample Results

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Client Sample ID: Well 10

Lab Sample ID: 320-11644-6

Date Collected: 02/11/15 11:30
Date Received: 02/12/15 10:20

Matrix: Water

Method: 537 - Perfluorinated Alkyl Acids (LC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	**0.29**		0.097	0.046	ug/L		02/18/15 09:18	02/23/15 18:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*109*		*70 - 130*	*02/18/15 09:18*	*02/23/15 18:53*	*5*
13C2 PFDA	*106*		*70 - 130*	*02/18/15 09:18*	*02/23/15 18:53*	*5*

Client Sample ID: Well 6

Lab Sample ID: 320-11644-7

Date Collected: 02/11/15 11:29
Date Received: 02/12/15 10:20

Matrix: Water

Method: 537 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonate (PFOS)	ND		0.39	0.15	ug/L		02/18/15 09:18	02/23/15 19:22	10
Perfluorooctanoic acid (PFOA)	**0.74**		0.19	0.091	ug/L		02/18/15 09:18	02/23/15 19:22	10
Perfluorononanoic acid (PFNA)	ND		0.19	0.11	ug/L		02/18/15 09:18	02/23/15 19:22	10
Perfluorohexanesulfonic acid(PFHxS)	ND		0.29	0.11	ug/L		02/18/15 09:18	02/23/15 19:22	10
Perfluoroheptanoic acid (PFHpA)	**0.066**	J	0.096	0.044	ug/L		02/18/15 09:18	02/23/15 19:22	10
Perfluorobutanesulfonic acid (PFBS)	ND		0.87	0.46	ug/L		02/18/15 09:18	02/23/15 19:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*108*		*70 - 130*	*02/18/15 09:18*	*02/23/15 19:22*	*10*
13C2 PFDA	*93*		*70 - 130*	*02/18/15 09:18*	*02/23/15 19:22*	*10*

Default Detection Limits

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Method: 537 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	RL	MDL	Units	Method
Perfluorobutanesulfonic acid (PFBS)	0.090	0.048	ug/L	537
Perfluoroheptanoic acid (PFHpA)	0.010	0.0046	ug/L	537
Perfluorohexanesulfonic acid(PFHxS)	0.030	0.012	ug/L	537
Perfluorononanoic acid (PFNA)	0.020	0.011	ug/L	537
Perfluorooctane Sulfonate (PFOS)	0.040	0.016	ug/L	537
Perfluorooctanoic acid (PFOA)	0.020	0.0094	ug/L	537

Surrogate Summary

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Method: 537 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		13C2 PFHxA	13C2 PFDA
Lab Sample ID	**Client Sample ID**	**(70-130)**	**(70-130)**
320-11644-1	Finished Water	104	106
320-11644-2	Well 7	101	111
320-11644-2 MS	Well 7	95	95
320-11644-2 MSD	Well 7	111	104
320-11644-3	Field Equipment Blank	145 X	147 X
320-11644-4	Lab Trip Blanks	118	117
320-11644-5	Well 3	122	128
320-11644-5 - DL	Well 3	109	104
320-11644-6	Well 10	114	116
320-11644-6 - DL	Well 10	109	106
320-11644-7	Well 6	108	93
LCS 320-65881/2-A	Lab Control Sample	120	93
MB 320-65881/1-A	Method Blank	112	94

Surrogate Legend

13C2 PFHxA = 13C2 PFHxA

13C2 PFDA = 13C2 PFDA

QC Sample Results

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Method: 537 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MB 320-65881/1-A
Matrix: Water
Analysis Batch: 66293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonate (PFOS)	ND		0.040	0.016	ug/L		02/18/15 09:18	02/24/15 04:44	1
Perfluorooctanoic acid (PFOA)	ND		0.020	0.0094	ug/L		02/18/15 09:18	02/24/15 04:44	1
Perfluorononanoic acid (PFNA)	ND		0.020	0.011	ug/L		02/18/15 09:18	02/24/15 04:44	1
Perfluorohexanesulfonic acid(PFHxS)	ND		0.030	0.012	ug/L		02/18/15 09:18	02/24/15 04:44	1
Perfluoroheptanoic acid (PFHpA)	ND		0.010	0.0046	ug/L		02/18/15 09:18	02/24/15 04:44	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.090	0.048	ug/L		02/18/15 09:18	02/24/15 04:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*112*		*70 - 130*	*02/18/15 09:18*	*02/24/15 04:44*	*1*
13C2 PFDA	*94*		*70 - 130*	*02/18/15 09:18*	*02/24/15 04:44*	*1*

Lab Sample ID: LCS 320-65881/2-A
Matrix: Water
Analysis Batch: 66293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctane Sulfonate (PFOS)	0.160	0.157		ug/L		98	70 - 130
Perfluorooctanoic acid (PFOA)	0.0803	0.0741		ug/L		92	70 - 130
Perfluorononanoic acid (PFNA)	0.0801	0.0796		ug/L		99	70 - 130
Perfluorohexanesulfonic acid(PFHxS)	0.120	0.118		ug/L		98	70 - 130
Perfluoroheptanoic acid (PFHpA)	0.0396	0.0380		ug/L		96	70 - 130
Perfluorobutanesulfonic acid (PFBS)	0.361	0.317		ug/L		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C2 PFHxA	*120*		*70 - 130*
13C2 PFDA	*93*		*70 - 130*

Lab Sample ID: 320-11644-2 MS
Matrix: Water
Analysis Batch: 66293

Client Sample ID: Well 7
Prep Type: Total/NA
Prep Batch: 65881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctane Sulfonate (PFOS)	ND		0.0398	ND		ug/L		NC	70 - 130
Perfluorooctanoic acid (PFOA)	1.0		0.0199	0.906	4	ug/L		-457	70 - 130
Perfluorononanoic acid (PFNA)	ND		0.0199	ND		ug/L		NC	70 - 130
Perfluorohexanesulfonic acid(PFHxS)	ND		0.0299	ND		ug/L		NC	70 - 130
Perfluoroheptanoic acid (PFHpA)	ND		0.00984	ND		ug/L		NC	70 - 130
Perfluorobutanesulfonic acid (PFBS)	ND		0.0897	ND		ug/L		NC	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C2 PFHxA	*95*		*70 - 130*
13C2 PFDA	*95*		*70 - 130*

Method: 537 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 320-11644-2 MSD
Matrix: Water
Analysis Batch: 66293

Client Sample ID: Well 7
Prep Type: Total/NA
Prep Batch: 65881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctane Sulfonate (PFOS)	ND		0.0394	ND		ug/L		NC	70 - 130	NC	30
Perfluorooctanoic acid (PFOA)	1.0		0.0197	0.981	4	ug/L		-83	70 - 130	8	30
Perfluorononanoic acid (PFNA)	ND		0.0197	ND		ug/L		NC	70 - 130	NC	30
Perfluorohexanesulfonic acid(PFHxS)	ND		0.0295	ND		ug/L		NC	70 - 130	NC	30
Perfluoroheptanoic acid (PFHpA)	ND		0.00973	0.0467	J	ug/L		NC	70 - 130	NC	30
Perfluorobutanesulfonic acid (PFBS)	ND		0.0886	ND		ug/L		NC	70 - 130	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C2 PFHxA	*111*		*70 - 130*
13C2 PFDA	*104*		*70 - 130*

QC Association Summary

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

LCMS

Prep Batch: 65881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-11644-1	Finished Water	Total/NA	Water	537	
320-11644-2	Well 7	Total/NA	Water	537	
320-11644-2 MS	Well 7	Total/NA	Water	537	
320-11644-2 MSD	Well 7	Total/NA	Water	537	
320-11644-3	Field Equipment Blank	Total/NA	Water	537	
320-11644-4	Lab Trip Blanks	Total/NA	Water	537	
320-11644-5	Well 3	Total/NA	Water	537	
320-11644-5 - DL	Well 3	Total/NA	Water	537	
320-11644-6 - DL	Well 10	Total/NA	Water	537	
320-11644-6	Well 10	Total/NA	Water	537	
320-11644-7	Well 6	Total/NA	Water	537	
LCS 320-65881/2-A	Lab Control Sample	Total/NA	Water	537	
MB 320-65881/1-A	Method Blank	Total/NA	Water	537	

Analysis Batch: 66293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-11644-1	Finished Water	Total/NA	Water	537	65881
320-11644-2	Well 7	Total/NA	Water	537	65881
320-11644-2 MS	Well 7	Total/NA	Water	537	65881
320-11644-2 MSD	Well 7	Total/NA	Water	537	65881
320-11644-3	Field Equipment Blank	Total/NA	Water	537	65881
320-11644-4	Lab Trip Blanks	Total/NA	Water	537	65881
320-11644-5 - DL	Well 3	Total/NA	Water	537	65881
320-11644-5	Well 3	Total/NA	Water	537	65881
320-11644-6 - DL	Well 10	Total/NA	Water	537	65881
320-11644-6	Well 10	Total/NA	Water	537	65881
320-11644-7	Well 6	Total/NA	Water	537	65881
LCS 320-65881/2-A	Lab Control Sample	Total/NA	Water	537	65881
MB 320-65881/1-A	Method Blank	Total/NA	Water	537	65881

Lab Chronicle

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Client Sample ID: Finished Water — Lab Sample ID: 320-11644-1

Date Collected: 02/11/15 09:39 — **Matrix: Water**
Date Received: 02/12/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537			65881	02/18/15 09:18	SNE	TAL SAC
Total/NA	Analysis	537		10	66293	02/23/15 16:25	JSS	TAL SAC

Client Sample ID: Well 7 — Lab Sample ID: 320-11644-2

Date Collected: 02/11/15 10:13 — **Matrix: Water**
Date Received: 02/12/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537			65881	02/18/15 09:18	SNE	TAL SAC
Total/NA	Analysis	537		10	66293	02/23/15 16:54	JSS	TAL SAC

Client Sample ID: Field Equipment Blank — Lab Sample ID: 320-11644-3

Date Collected: 02/11/15 10:36 — **Matrix: Water**
Date Received: 02/12/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537			65881	02/18/15 09:18	SNE	TAL SAC
Total/NA	Analysis	537		1	66293	02/24/15 11:04	JSS	TAL SAC

Client Sample ID: Lab Trip Blanks — Lab Sample ID: 320-11644-4

Date Collected: 02/11/15 00:00 — **Matrix: Water**
Date Received: 02/12/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537			65881	02/18/15 09:18	SNE	TAL SAC
Total/NA	Analysis	537		1	66293	02/24/15 11:34	JSS	TAL SAC

Client Sample ID: Well 3 — Lab Sample ID: 320-11644-5

Date Collected: 02/11/15 10:59 — **Matrix: Water**
Date Received: 02/12/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537	DL		65881	02/18/15 09:18	SNE	TAL SAC
Total/NA	Analysis	537	DL	5	66293	02/23/15 18:23	JSS	TAL SAC
Total/NA	Prep	537			65881	02/18/15 09:18	SNE	TAL SAC
Total/NA	Analysis	537		1	66293	02/24/15 12:33	JSS	TAL SAC

Lab Chronicle

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Client Sample ID: Well 10

Lab Sample ID: 320-11644-6

Date Collected: 02/11/15 11:30
Date Received: 02/12/15 10:20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537	DL		65881	02/18/15 09:18	SNE	TAL SAC
Total/NA	Analysis	537	DL	5	66293	02/23/15 18:53	JSS	TAL SAC
Total/NA	Prep	537			65881	02/18/15 09:18	SNE	TAL SAC
Total/NA	Analysis	537		1	66293	02/24/15 13:02	JSS	TAL SAC

Client Sample ID: Well 6

Lab Sample ID: 320-11644-7

Date Collected: 02/11/15 11:29
Date Received: 02/12/15 10:20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537			65881	02/18/15 09:18	SNE	TAL SAC
Total/NA	Analysis	537		10	66293	02/23/15 19:22	JSS	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Laboratory: TestAmerica Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
USEPA UCMR	Federal	1	CA00044	11-06-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Method	Method Description	Protocol	Laboratory
537	Perfluorinated Alkyl Acids (LC/MS)	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: CT Male Associates PC
Project/Site: Village of Hoosick Falls

TestAmerica Job ID: 320-11644-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-11644-1	Finished Water	Water	02/11/15 09:39	02/12/15 10:20
320-11644-2	Well 7	Water	02/11/15 10:13	02/12/15 10:20
320-11644-3	Field Equipment Blank	Water	02/11/15 10:36	02/12/15 10:20
320-11644-4	Lab Trip Blanks	Water	02/11/15 00:00	02/12/15 10:20
320-11644-5	Well 3	Water	02/11/15 10:59	02/12/15 10:20
320-11644-6	Well 10	Water	02/11/15 11:30	02/12/15 10:20
320-11644-7	Well 6	Water	02/11/15 11:29	02/12/15 10:20

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
LC537-ICV_00008	06/30/15	02/13/15	MeOH/H2O, Lot 090285	10 mL	LC537-HSP_00004	270 uL	Perfluorobutanesulfonic acid (PFBS)	92.5452 ng/mL
							Perfluoroheptanoic acid (PFHpA)	10.1574 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	30.8278 ng/mL
							Perfluorononanoic acid (PFNA)	20.5413 ng/mL
							Perfluorooctanoic acid (PFOA)	20.5866 ng/mL
							Perfluorooctane Sulfonate (PFOS)	41.1081 ng/mL
					LC537-SU_00010	500 uL	13C2 PFDA	10 ng/mL
							13C2 PFHxA	10 ng/mL
.LC537-HSP_00004	06/30/15	02/13/15	Methanol, Lot 90285	10 mL	LC537SPIM_00006	0.38 mL	Perfluorobutanesulfonic acid (PFBS)	3427.6 ng/mL
							Perfluoroheptanoic acid (PFHpA)	376.2 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	1141.77 ng/mL
							Perfluorononanoic acid (PFNA)	760.789 ng/mL
							Perfluorooctanoic acid (PFOA)	762.467 ng/mL
							Perfluorooctane Sulfonate (PFOS)	1522.52 ng/mL
..LC537SPIM_00006	06/30/15	02/12/15	Methanol, Lot 090285	10 mL	LC537-PFBS_00003	0.44 mL	Perfluorobutanesulfonic acid (PFBS)	90.2 ug/mL
					LC537-PFHpA_00006	0.1 mL	Perfluoroheptanoic acid (PFHpA)	9.9 ug/mL
					LC537-PFHxS_00004	0.295 mL	Perfluorohexanesulfonic acid(PFHxS)	30.0466 ug/mL
					LC537-PFNA_00004	0.189 mL	Perfluorononanoic acid (PFNA)	20.0208 ug/mL
					LC537-PFOA_00005	0.0975 mL	Perfluorooctanoic acid (PFOA)	20.0649 ug/mL
					LC537-PFOS_00003	0.4 mL	Perfluorooctane Sulfonate (PFOS)	40.0664 ug/mL
...LC537-PFBS_00003	09/13/15	09/13/14	Methanol, Lot 067374	6 mL	LC537_PFBS_00001	0.0123 g	Perfluorobutanesulfonic acid (PFBS)	2050 ug/mL
....LC537_PFBS_00001	07/13/17		Sigma, Lot MKBF7792		(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	1 g/g
...LC537-PFHpA_00006	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHpA_00001	0.005 g	Perfluoroheptanoic acid (PFHpA)	990 ug/mL
....LC537_PFHpA_00001	10/31/16		Aldrich, Lot BCBG3662V		(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	0.99 g/g
...LC537-PFHxS_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHxS_00001	0.0056 g	Perfluorohexanesulfonic acid(PFHxS)	1018.53 ug/mL
....LC537_PFHxS_00001	07/06/16		Sigma, Lot BCBF9742V		(Purchased Reagent)		Perfluorohexanesulfonic acid(PFHxS)	0.9094 g/g
...LC537-PFNA_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFNA_00001	0.0055 g	Perfluorononanoic acid (PFNA)	1059.3 ug/mL
....LC537_PFNA_00001	07/25/17		TCI America, Lot QN44F		(Purchased Reagent)		Perfluorononanoic acid (PFNA)	0.963 g/g
...LC537-PFOA_00005	06/30/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOA_00001	0.0103 g	Perfluorooctanoic acid (PFOA)	2057.94 ug/mL
....LC537_PFOA_00001	06/30/15		Fluka, Lot SZBA162XV		(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	0.999 g/g

ED_001342_00001134-00165

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LC537-PFOS_00003	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOS_00001	0.0055 g	Perfluorooctane Sulfonate (PFOS)	1001.66 ug/mL
....LC537_PFOS_00001	07/06/16		Fluka, Lot SZBB187XV		(Purchased Reagent)		Perfluorooctane Sulfonate (PFOS)	0.9106 g/g
.LC537-SU_00010	08/12/15	02/12/15	Methanol, Lot 090285	25 mL	LCMPFDA_00004	100 uL	13C2 PFDA	0.2 ug/mL
					LCMPFHxA_00005	100 uL	13C2 PFHxA	0.2 ug/mL
..LCMPFDA_00004	04/13/19		Wellington Laboratories, Lot MPFDA0414		(Purchased Reagent)		13C2 PFDA	50 ug/mL
..LCMPFHxA_00005	04/13/19		Wellington Laboratories, Lot MPFHxA0414		(Purchased Reagent)		13C2 PFHxA	50 ug/mL
LC537-IS_00008	08/12/15	02/02/15	Methanol, Lot 090285	10 mL	LCM2PFOA_00004	0.2 mL	13C2-PFOA	1 ug/mL
					LCMPFOS_00007	0.6 mL	13C4 PFOS	2.868 ug/mL
.LCM2PFOA_00004	03/19/17		Wellington Laboratories, Lot M2PFOA0312		(Purchased Reagent)		13C2-PFOA	50 ug/mL
.LCMPFOS_00007	10/09/19		Wellington Laboratories, Lot MPFOS1014		(Purchased Reagent)		13C4 PFOS	47.8 ug/mL
LC537-L1_00009	06/30/15	02/13/15	MeOH/H2O, Lot 090285	10 mL	LC537-HSP_00004	26 uL	Perfluorobutanesulfonic acid (PFBS)	8.91176 ng/mL
							Perfluoroheptanoic acid (PFHpA)	0.97812 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	2.9686 ng/mL
							Perfluorononanoic acid (PFNA)	1.97805 ng/mL
							Perfluorooctanoic acid (PFOA)	1.98241 ng/mL
							Perfluorooctane Sulfonate (PFOS)	3.95856 ng/mL
					LC537-IS_00008	100 uL	13C2-PFOA	10 ng/mL
							13C4 PFOS	28.68 ng/mL
					LC537-SU_00010	500 uL	13C2 PFDA	10 ng/mL
							13C2 PFHxA	10 ng/mL
.LC537-HSP_00004	06/30/15	02/13/15	Methanol, Lot 90285	10 mL	LC537SPIM_00006	0.38 mL	Perfluorobutanesulfonic acid (PFBS)	3427.6 ng/mL
							Perfluoroheptanoic acid (PFHpA)	376.2 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	1141.77 ng/mL
							Perfluorononanoic acid (PFNA)	760.789 ng/mL
							Perfluorooctanoic acid (PFOA)	762.467 ng/mL
							Perfluorooctane Sulfonate (PFOS)	1522.52 ng/mL
..LC537SPIM_00006	06/30/15	02/12/15	Methanol, Lot 090285	10 mL	LC537-PFBS_00003	0.44 mL	Perfluorobutanesulfonic acid (PFBS)	90.2 ug/mL
					LC537-PFHpA_00006	0.1 mL	Perfluoroheptanoic acid (PFHpA)	9.9 ug/mL
					LC537-PFHxS_00004	0.295 mL	Perfluorohexanesulfonic acid(PFHxS)	30.0466 ug/mL
					LC537-PFNA_00004	0.189 mL	Perfluorononanoic acid (PFNA)	20.0208 ug/mL
					LC537-PFOA_00005	0.0975 mL	Perfluorooctanoic acid (PFOA)	20.0649 ug/mL
					LC537-PFOS_00003	0.4 mL	Perfluorooctane Sulfonate (PFOS)	40.0664 ug/mL
...LC537-PFBS_00003	09/13/15	09/13/14	Methanol, Lot 067374	6 mL	LC537_PFBS_00001	0.0123 g	Perfluorobutanesulfonic acid (PFBS)	2050 ug/mL

ED_001342_00001134-00166

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LC537_PFBS_00001	07/13/17	Sigma, Lot MKBF7792			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	1 g/g
...LC537-PFHpA_00006	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHpA_00001	0.005 g	Perfluoroheptanoic acid (PFHpA)	990 ug/mL
....LC537_PFHpA_00001	10/31/16	Aldrich, Lot BCBG3662V			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	0.99 g/g
...LC537-PFHxS_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHxS_00001	0.0056 g	Perfluorohexanesulfonic acid(PFHxS)	1018.53 ug/mL
....LC537_PFHxS_00001	07/06/16	Sigma, Lot BCBF9742V			(Purchased Reagent)		Perfluorohexanesulfonic acid(PFHxS)	0.9094 g/g
...LC537-PFNA_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFNA_00001	0.0055 g	Perfluorononanoic acid (PFNA)	1059.3 ug/mL
....LC537_PFNA_00001	07/25/17	TCI America, Lot QN44F			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	0.963 g/g
...LC537-PFOA_00005	06/30/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOA_00001	0.0103 g	Perfluorooctanoic acid (PFOA)	2057.94 ug/mL
....LC537_PFOA_00001	06/30/15	Fluka, Lot SZBA162XV			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	0.999 g/g
...LC537-PFOS_00003	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOS_00001	0.0055 g	Perfluorooctane Sulfonate (PFOS)	1001.66 ug/mL
....LC537_PFOS_00001	07/06/16	Fluka, Lot SZBB187XV			(Purchased Reagent)		Perfluorooctane Sulfonate (PFOS)	0.9106 g/g
.LC537-IS_00008	08/12/15	02/02/15	Methanol, Lot 090285	10 mL	LCM2PFOA_00004	0.2 mL	13C2-PFOA	1 ug/mL
					LCMPFOS_00007	0.6 mL	13C4 PFOS	2.868 ug/mL
..LCM2PFOA_00004	03/19/17	Wellington Laboratories, Lot M2PFOA0312			(Purchased Reagent)		13C2-PFOA	50 ug/mL
..LCMPFOS_00007	10/09/19	Wellington Laboratories, Lot MPFOS1014			(Purchased Reagent)		13C4 PFOS	47.8 ug/mL
.LC537-SU_00010	08/12/15	02/12/15	Methanol, Lot 090285	25 mL	LCMPFDA_00004	100 uL	13C2 PFDA	0.2 ug/mL
					LCMPFHxA_00005	100 uL	13C2 PFHxA	0.2 ug/mL
..LCMPFDA_00004	04/13/19	Wellington Laboratories, Lot MPFDA0414			(Purchased Reagent)		13C2 PFDA	50 ug/mL
..LCMPFHxA_00005	04/13/19	Wellington Laboratories, Lot MPFHxA0414			(Purchased Reagent)		13C2 PFHxA	50 ug/mL
LC537-L2_00008	06/30/15	02/13/15	MeOH/H2O, Lot 090285	10 mL	LC537-HSP_00004	68 uL	Perfluorobutanesulfonic acid (PFBS)	23.3077 ng/mL
							Perfluoroheptanoic acid (PFHpA)	2.55816 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	7.76404 ng/mL
							Perfluorononanoic acid (PFNA)	5.17337 ng/mL
							Perfluorooctanoic acid (PFOA)	5.18477 ng/mL
							Perfluorooctane Sulfonate (PFOS)	10.3532 ng/mL
					LC537-IS_00008	100 uL	13C2-PFOA	10 ng/mL
							13C4 PFOS	28.68 ng/mL
					LC537-SU_00010	500 uL	13C2 PFDA	10 ng/mL
							13C2 PFHxA	10 ng/mL
.LC537-HSP_00004	06/30/15	02/13/15	Methanol, Lot 90285	10 mL	LC537SPIM_00006	0.38 mL	Perfluorobutanesulfonic acid (PFBS)	3427.6 ng/mL
							Perfluoroheptanoic acid (PFHpA)	376.2 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	1141.77 ng/mL
							Perfluorononanoic acid (PFNA)	760.789 ng/mL
							Perfluorooctanoic acid (PFOA)	762.467 ng/mL

ED_001342_00001134-00167

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorooctane Sulfonate (PFOS)	1522.52 ng/mL
..LC537SPIM_00006	06/30/15	02/12/15	Methanol, Lot 090285	10 mL	LC537-PFBS_00003	0.44 mL	Perfluorobutanesulfonic acid (PFBS)	90.2 ug/mL
					LC537-PFHpA_00006	0.1 mL	Perfluoroheptanoic acid (PFHpA)	9.9 ug/mL
					LC537-PFHxS_00004	0.295 mL	Perfluorohexanesulfonic acid(PFHxS)	30.0466 ug/mL
					LC537-PFNA_00004	0.189 mL	Perfluorononanoic acid (PFNA)	20.0208 ug/mL
					LC537-PFOA_00005	0.0975 mL	Perfluorooctanoic acid (PFOA)	20.0649 ug/mL
					LC537-PFOS_00003	0.4 mL	Perfluorooctane Sulfonate (PFOS)	40.0664 ug/mL
...LC537-PFBS_00003	09/13/15	09/13/14	Methanol, Lot 067374	6 mL	LC537_PFBS_00001	0.0123 g	Perfluorobutanesulfonic acid (PFBS)	2050 ug/mL
....LC537_PFBS_00001	07/13/17		Sigma, Lot MKBF7792		(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	1 g/g
...LC537-PFHpA_00006	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHpA_00001	0.005 g	Perfluoroheptanoic acid (PFHpA)	990 ug/mL
....LC537_PFHpA_00001	10/31/16		Aldrich, Lot BCBG3662V		(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	0.99 g/g
...LC537-PFHxS_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHxS_00001	0.0056 g	Perfluorohexanesulfonic acid(PFHxS)	1018.53 ug/mL
....LC537_PFHxS_00001	07/06/16		Sigma, Lot BCBF9742V		(Purchased Reagent)		Perfluorohexanesulfonic acid(PFHxS)	0.9094 g/g
...LC537-PFNA_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFNA_00001	0.0055 g	Perfluorononanoic acid (PFNA)	1059.3 ug/mL
....LC537_PFNA_00001	07/25/17		TCI America, Lot QN44F		(Purchased Reagent)		Perfluorononanoic acid (PFNA)	0.963 g/g
...LC537-PFOA_00005	06/30/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOA_00001	0.0103 g	Perfluorooctanoic acid (PFOA)	2057.94 ug/mL
....LC537_PFOA_00001	06/30/15		Fluka, Lot SZBA162XV		(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	0.999 g/g
...LC537-PFOS_00003	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOS_00001	0.0055 g	Perfluorooctane Sulfonate (PFOS)	1001.66 ug/mL
....LC537_PFOS_00001	07/06/16		Fluka, Lot SZBB187XV		(Purchased Reagent)		Perfluorooctane Sulfonate (PFOS)	0.9106 g/g
.LC537-IS_00008	08/12/15	02/02/15	Methanol, Lot 090285	10 mL	LCM2PFOA_00004	0.2 mL	13C2-PFOA	1 ug/mL
					LCMPFOS_00007	0.6 mL	13C4 PFOS	2.868 ug/mL
..LCM2PFOA_00004	03/19/17		Wellington Laboratories, Lot M2PFOA0312		(Purchased Reagent)		13C2-PFOA	50 ug/mL
..LCMPFOS_00007	10/09/19		Wellington Laboratories, Lot MPFOS1014		(Purchased Reagent)		13C4 PFOS	47.8 ug/mL
.LC537-SU_00010	08/12/15	02/12/15	Methanol, Lot 090285	25 mL	LCMPFDA_00004	100 uL	13C2 PFDA	0.2 ug/mL
					LCMPFHxA_00005	100 uL	13C2 PFHxA	0.2 ug/mL
..LCMPFDA_00004	04/13/19		Wellington Laboratories, Lot MPFDA0414		(Purchased Reagent)		13C2 PFDA	50 ug/mL
..LCMPFHxA_00005	04/13/19		Wellington Laboratories, Lot MPFHxA0414		(Purchased Reagent)		13C2 PFHxA	50 ug/mL
LC537-L3_00008	06/30/15	02/13/15	MeOH/H2O, Lot 090285	10 mL	LC537-HSP_00004	134 uL	Perfluorobutanesulfonic acid (PFBS)	45.9298 ng/mL
							Perfluoroheptanoic acid (PFHpA)	5.04108 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	15.2997 ng/mL
							Perfluorononanoic acid (PFNA)	10.1946 ng/mL
							Perfluorooctanoic acid (PFOA)	10.2171 ng/mL

ED_001342_00001134-00168

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorooctane Sulfonate (PFOS)	20.4018 ng/mL
					LC537-IS_00008	100 uL	13C2-PFOA	10 ng/mL
							13C4 PFOS	28.68 ng/mL
					LC537-SU_00010	500 uL	13C2 PFDA	10 ng/mL
							13C2 PFHxA	10 ng/mL
.LC537-HSP_00004	06/30/15	02/13/15	Methanol, Lot 90285	10 mL	LC537SPIM_00006	0.38 mL	Perfluorobutanesulfonic acid (PFBS)	3427.6 ng/mL
							Perfluoroheptanoic acid (PFHpA)	376.2 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	1141.77 ng/mL
							Perfluorononanoic acid (PFNA)	760.789 ng/mL
							Perfluorooctanoic acid (PFOA)	762.467 ng/mL
							Perfluorooctane Sulfonate (PFOS)	1522.52 ng/mL
..LC537SPIM_00006	06/30/15	02/12/15	Methanol, Lot 090285	10 mL	LC537-PFBS_00003	0.44 mL	Perfluorobutanesulfonic acid (PFBS)	90.2 ug/mL
					LC537-PFHpA_00006	0.1 mL	Perfluoroheptanoic acid (PFHpA)	9.9 ug/mL
					LC537-PFHxS_00004	0.295 mL	Perfluorohexanesulfonic acid(PFHxS)	30.0466 ug/mL
					LC537-PFNA_00004	0.189 mL	Perfluorononanoic acid (PFNA)	20.0208 ug/mL
					LC537-PFOA_00005	0.0975 mL	Perfluorooctanoic acid (PFOA)	20.0649 ug/mL
					LC537-PFOS_00003	0.4 mL	Perfluorooctane Sulfonate (PFOS)	40.0664 ug/mL
...LC537-PFBS_00003	09/13/15	09/13/14	Methanol, Lot 067374	6 mL	LC537_PFBS_00001	0.0123 g	Perfluorobutanesulfonic acid (PFBS)	2050 ug/mL
....LC537_PFBS_00001	07/13/17		Sigma, Lot MKBF7792		(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	1 g/g
...LC537-PFHpA_00006	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHpA_00001	0.005 g	Perfluoroheptanoic acid (PFHpA)	990 ug/mL
....LC537_PFHpA_00001	10/31/16		Aldrich, Lot BCBG3662V		(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	0.99 g/g
...LC537-PFHxS_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHxS_00001	0.0056 g	Perfluorohexanesulfonic acid(PFHxS)	1018.53 ug/mL
....LC537_PFHxS_00001	07/06/16		Sigma, Lot BCBF9742V		(Purchased Reagent)		Perfluorohexanesulfonic acid(PFHxS)	0.9094 g/g
...LC537-PFNA_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFNA_00001	0.0055 g	Perfluorononanoic acid (PFNA)	1059.3 ug/mL
....LC537_PFNA_00001	07/25/17		TCI America, Lot QN44F		(Purchased Reagent)		Perfluorononanoic acid (PFNA)	0.963 g/g
...LC537-PFOA_00005	06/30/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOA_00001	0.0103 g	Perfluorooctanoic acid (PFOA)	2057.94 ug/mL
....LC537_PFOA_00001	06/30/15		Fluka, Lot SZBA162XV		(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	0.999 g/g
...LC537-PFOS_00003	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOS_00001	0.0055 g	Perfluorooctane Sulfonate (PFOS)	1001.66 ug/mL
....LC537_PFOS_00001	07/06/16		Fluka, Lot SZBB187XV		(Purchased Reagent)		Perfluorooctane Sulfonate (PFOS)	0.9106 g/g
.LC537-IS_00008	08/12/15	02/02/15	Methanol, Lot 090285	10 mL	LCM2PFOA_00004	0.2 mL	13C2-PFOA	1 ug/mL
					LCMPFOS_00007	0.6 mL	13C4 PFOS	2.868 ug/mL
..LCM2PFOA_00004	03/19/17		Wellington Laboratories, Lot M2PFOA0312		(Purchased Reagent)		13C2-PFOA	50 ug/mL

ED_001342_00001134-00169

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..LCMPFOS_00007	10/09/19	Wellington Laboratories, Lot MPFOS1014			(Purchased Reagent)		13C4 PFOS	47.8 ug/mL
.LC537-SU_00010	08/12/15	02/12/15	Methanol, Lot 090285	25 mL	LCMPFDA_00004	100 uL	13C2 PFDA	0.2 ug/mL
					LCMPFHxA_00005	100 uL	13C2 PFHxA	0.2 ug/mL
..LCMPFDA_00004	04/13/19	Wellington Laboratories, Lot MPFDA0414			(Purchased Reagent)		13C2 PFDA	50 ug/mL
..LCMPFHxA_00005	04/13/19	Wellington Laboratories, Lot MPFHxA0414			(Purchased Reagent)		13C2 PFHxA	50 ug/mL
LC537-L4_00009	06/30/15	02/13/15	MeOH/H2O, Lot 090285	10 mL	LC537-HSP_00004	270 uL	Perfluorobutanesulfonic acid (PFBS)	92.5452 ng/mL
							Perfluoroheptanoic acid (PFHpA)	10.1574 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	30.8278 ng/mL
							Perfluorononanoic acid (PFNA)	20.5413 ng/mL
							Perfluorooctanoic acid (PFOA)	20.5866 ng/mL
							Perfluorooctane Sulfonate (PFOS)	41.1081 ng/mL
					LC537-IS_00008	100 uL	13C2-PFOA	10 ng/mL
							13C4 PFOS	28.68 ng/mL
					LC537-SU_00010	500 uL	13C2 PFDA	10 ng/mL
							13C2 PFHxA	10 ng/mL
.LC537-HSP_00004	06/30/15	02/13/15	Methanol, Lot 90285	10 mL	LC537SPIM_00006	0.38 mL	Perfluorobutanesulfonic acid (PFBS)	3427.6 ng/mL
							Perfluoroheptanoic acid (PFHpA)	376.2 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	1141.77 ng/mL
							Perfluorononanoic acid (PFNA)	760.789 ng/mL
							Perfluorooctanoic acid (PFOA)	762.467 ng/mL
							Perfluorooctane Sulfonate (PFOS)	1522.52 ng/mL
..LC537SPIM_00006	06/30/15	02/12/15	Methanol, Lot 090285	10 mL	LC537-PFBS_00003	0.44 mL	Perfluorobutanesulfonic acid (PFBS)	90.2 ug/mL
					LC537-PFHpA_00006	0.1 mL	Perfluoroheptanoic acid (PFHpA)	9.9 ug/mL
					LC537-PFHxS_00004	0.295 mL	Perfluorohexanesulfonic acid(PFHxS)	30.0466 ug/mL
					LC537-PFNA_00004	0.189 mL	Perfluorononanoic acid (PFNA)	20.0208 ug/mL
					LC537-PFOA_00005	0.0975 mL	Perfluorooctanoic acid (PFOA)	20.0649 ug/mL
					LC537-PFOS_00003	0.4 mL	Perfluorooctane Sulfonate (PFOS)	40.0664 ug/mL
...LC537-PFBS_00003	09/13/15	09/13/14	Methanol, Lot 067374	6 mL	LC537_PFBS_00001	0.0123 g	Perfluorobutanesulfonic acid (PFBS)	2050 ug/mL
....LC537_PFBS_00001	07/13/17	Sigma, Lot MKBF7792			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	1 g/g
...LC537-PFHpA_00006	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHpA_00001	0.005 g	Perfluoroheptanoic acid (PFHpA)	990 ug/mL
....LC537_PFHpA_00001	10/31/16	Aldrich, Lot BCBG3662V			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	0.99 g/g
...LC537-PFHxS_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHxS_00001	0.0056 g	Perfluorohexanesulfonic acid(PFHxS)	1018.53 ug/mL

ED_001342_00001134-00170

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LC537_PFHxS_00001	07/06/16		Sigma, Lot BCBF9742V		(Purchased Reagent)		Perfluorohexanesulfonic acid(PFHxS)	0.9094 g/g
...LC537-PFNA_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFNA_00001	0.0055 g	Perfluorononanoic acid (PFNA)	1059.3 ug/mL
....LC537_PFNA_00001	07/25/17		TCI America, Lot QN44F		(Purchased Reagent)		Perfluorononanoic acid (PFNA)	0.963 g/g
...LC537-PFOA_00005	06/30/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOA_00001	0.0103 g	Perfluorooctanoic acid (PFOA)	2057.94 ug/mL
....LC537_PFOA_00001	06/30/15		Fluka, Lot SZBA162XV		(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	0.999 g/g
...LC537-PFOS_00003	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOS_00001	0.0055 g	Perfluorooctane Sulfonate (PFOS)	1001.66 ug/mL
....LC537_PFOS_00001	07/06/16		Fluka, Lot SZBB187XV		(Purchased Reagent)		Perfluorooctane Sulfonate (PFOS)	0.9106 g/g
.LC537-IS_00008	08/12/15	02/02/15	Methanol, Lot 090285	10 mL	LCM2PFOA_00004	0.2 mL	13C2-PFOA	1 ug/mL
					LCMPFOS_00007	0.6 mL	13C4 PFOS	2.868 ug/mL
..LCM2PFOA_00004	03/19/17		Wellington Laboratories, Lot M2PFOA0312		(Purchased Reagent)		13C2-PFOA	50 ug/mL
..LCMPFOS_00007	10/09/19		Wellington Laboratories, Lot MPFOS1014		(Purchased Reagent)		13C4 PFOS	47.8 ug/mL
.LC537-SU_00010	08/12/15	02/12/15	Methanol, Lot 090285	25 mL	LCMPFDA_00004	100 uL	13C2 PFDA	0.2 ug/mL
					LCMPFHxA_00005	100 uL	13C2 PFHxA	0.2 ug/mL
..LCMPFDA_00004	04/13/19		Wellington Laboratories, Lot MPFDA0414		(Purchased Reagent)		13C2 PFDA	50 ug/mL
..LCMPFHxA_00005	04/13/19		Wellington Laboratories, Lot MPFHxA0414		(Purchased Reagent)		13C2 PFHxA	50 ug/mL
LC537-L5_00008	06/30/15	02/13/15	MeOH/H2O, Lot 090285	10 mL	LC537-HSP_00004	400 uL	Perfluorobutanesulfonic acid (PFBS)	137.104 ng/mL
							Perfluoroheptanoic acid (PFHpA)	15.048 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	45.6708 ng/mL
							Perfluorononanoic acid (PFNA)	30.4316 ng/mL
							Perfluorooctanoic acid (PFOA)	30.4987 ng/mL
							Perfluorooctane Sulfonate (PFOS)	60.9009 ng/mL
					LC537-IS_00008	100 uL	13C2-PFOA	10 ng/mL
							13C4 PFOS	28.68 ng/mL
					LC537-SU_00010	500 uL	13C2 PFDA	10 ng/mL
							13C2 PFHxA	10 ng/mL
.LC537-HSP_00004	06/30/15	02/13/15	Methanol, Lot 90285	10 mL	LC537SPIM_00006	0.38 mL	Perfluorobutanesulfonic acid (PFBS)	3427.6 ng/mL
							Perfluoroheptanoic acid (PFHpA)	376.2 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	1141.77 ng/mL
							Perfluorononanoic acid (PFNA)	760.789 ng/mL
							Perfluorooctanoic acid (PFOA)	762.467 ng/mL
							Perfluorooctane Sulfonate (PFOS)	1522.52 ng/mL
..LC537SPIM_00006	06/30/15	02/12/15	Methanol, Lot 090285	10 mL	LC537-PFBS_00003	0.44 mL	Perfluorobutanesulfonic acid (PFBS)	90.2 ug/mL
					LC537-PFHpA_00006	0.1 mL	Perfluoroheptanoic acid (PFHpA)	9.9 ug/mL
					LC537-PFHxS_00004	0.295 mL	Perfluorohexanesulfonic acid(PFHxS)	30.0466 ug/mL
					LC537-PFNA_00004	0.189 mL	Perfluorononanoic acid (PFNA)	20.0208 ug/mL

ED_001342_00001134-00171

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LC537-PFOA_00005	0.0975 mL	Perfluorooctanoic acid (PFOA)	20.0649 ug/mL
					LC537-PFOS_00003	0.4 mL	Perfluorooctane Sulfonate (PFOS)	40.0664 ug/mL
...LC537-PFBS_00003	09/13/15	09/13/14	Methanol, Lot 067374	6 mL	LC537_PFBS_00001	0.0123 g	Perfluorobutanesulfonic acid (PFBS)	2050 ug/mL
....LC537_PFBS_00001	07/13/17		Sigma, Lot MKBF7792		(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	1 g/g
...LC537-PFHpA_00006	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHpA_00001	0.005 g	Perfluoroheptanoic acid (PFHpA)	990 ug/mL
....LC537_PFHpA_00001	10/31/16		Aldrich, Lot BCBG3662V		(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	0.99 g/g
...LC537-PFHxS_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHxS_00001	0.0056 g	Perfluorohexanesulfonic acid(PFHxS)	1018.53 ug/mL
....LC537_PFHxS_00001	07/06/16		Sigma, Lot BCBF9742V		(Purchased Reagent)		Perfluorohexanesulfonic acid(PFHxS)	0.9094 g/g
...LC537-PFNA_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFNA_00001	0.0055 g	Perfluorononanoic acid (PFNA)	1059.3 ug/mL
....LC537_PFNA_00001	07/25/17		TCI America, Lot QN44F		(Purchased Reagent)		Perfluorononanoic acid (PFNA)	0.963 g/g
...LC537-PFOA_00005	06/30/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOA_00001	0.0103 g	Perfluorooctanoic acid (PFOA)	2057.94 ug/mL
....LC537_PFOA_00001	06/30/15		Fluka, Lot SZBA162XV		(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	0.999 g/g
...LC537-PFOS_00003	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOS_00001	0.0055 g	Perfluorooctane Sulfonate (PFOS)	1001.66 ug/mL
....LC537_PFOS_00001	07/06/16		Fluka, Lot SZBB187XV		(Purchased Reagent)		Perfluorooctane Sulfonate (PFOS)	0.9106 g/g
.LC537-IS_00008	08/12/15	02/02/15	Methanol, Lot 090285	10 mL	LCM2PFOA_00004	0.2 mL	13C2-PFOA	1 ug/mL
					LCMPFOS_00007	0.6 mL	13C4 PFOS	2.868 ug/mL
..LCM2PFOA_00004	03/19/17		Wellington Laboratories, Lot M2PFOA0312		(Purchased Reagent)		13C2-PFOA	50 ug/mL
..LCMPFOS_00007	10/09/19		Wellington Laboratories, Lot MPFOS1014		(Purchased Reagent)		13C4 PFOS	47.8 ug/mL
.LC537-SU_00010	08/12/15	02/12/15	Methanol, Lot 090285	25 mL	LCMPFDA_00004	100 uL	13C2 PFDA	0.2 ug/mL
					LCMPFHxA_00005	100 uL	13C2 PFHxA	0.2 ug/mL
..LCMPFDA_00004	04/13/19		Wellington Laboratories, Lot MPFDA0414		(Purchased Reagent)		13C2 PFDA	50 ug/mL
..LCMPFHxA_00005	04/13/19		Wellington Laboratories, Lot MPFHxA0414		(Purchased Reagent)		13C2 PFHxA	50 ug/mL
LC537-L6_00008	06/30/15	02/13/15	MeOH/H2O, Lot 090285	10 mL	LC537-HSP_00004	530 uL	Perfluorobutanesulfonic acid (PFBS)	181.663 ng/mL
							Perfluoroheptanoic acid (PFHpA)	19.9386 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	60.5138 ng/mL
							Perfluorononanoic acid (PFNA)	40.3218 ng/mL
							Perfluorooctanoic acid (PFOA)	40.4107 ng/mL
							Perfluorooctane Sulfonate (PFOS)	80.6937 ng/mL
					LC537-IS_00008	100 uL	13C2-PFOA	10 ng/mL
							13C4 PFOS	28.68 ng/mL
					LC537-SU_00010	500 uL	13C2 PFDA	10 ng/mL
							13C2 PFHxA	10 ng/mL
.LC537-HSP_00004	06/30/15	02/13/15	Methanol, Lot 90285	10 mL	LC537SPIM_00006	0.38 mL	Perfluorobutanesulfonic acid (PFBS)	3427.6 ng/mL

ED_001342_00001134-00172

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluoroheptanoic acid (PFHpA)	376.2 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	1141.77 ng/mL
							Perfluorononanoic acid (PFNA)	760.789 ng/mL
							Perfluorooctanoic acid (PFOA)	762.467 ng/mL
							Perfluorooctane Sulfonate (PFOS)	1522.52 ng/mL
..LC537SPIM_00006	06/30/15	02/12/15	Methanol, Lot 090285	10 mL	LC537-PFBS_00003	0.44 mL	Perfluorobutanesulfonic acid (PFBS)	90.2 ug/mL
					LC537-PFHpA_00006	0.1 mL	Perfluoroheptanoic acid (PFHpA)	9.9 ug/mL
					LC537-PFHxS_00004	0.295 mL	Perfluorohexanesulfonic acid(PFHxS)	30.0466 ug/mL
					LC537-PFNA_00004	0.189 mL	Perfluorononanoic acid (PFNA)	20.0208 ug/mL
					LC537-PFOA_00005	0.0975 mL	Perfluorooctanoic acid (PFOA)	20.0649 ug/mL
					LC537-PFOS_00003	0.4 mL	Perfluorooctane Sulfonate (PFOS)	40.0664 ug/mL
...LC537-PFBS_00003	09/13/15	09/13/14	Methanol, Lot 067374	6 mL	LC537_PFBS_00001	0.0123 g	Perfluorobutanesulfonic acid (PFBS)	2050 ug/mL
....LC537_PFBS_00001	07/13/17		Sigma, Lot MKBF7792		(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	1 g/g
...LC537-PFHpA_00006	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHpA_00001	0.005 g	Perfluoroheptanoic acid (PFHpA)	990 ug/mL
....LC537_PFHpA_00001	10/31/16		Aldrich, Lot BCBG3662V		(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	0.99 g/g
...LC537-PFHxS_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHxS_00001	0.0056 g	Perfluorohexanesulfonic acid(PFHxS)	1018.53 ug/mL
....LC537_PFHxS_00001	07/06/16		Sigma, Lot BCBF9742V		(Purchased Reagent)		Perfluorohexanesulfonic acid(PFHxS)	0.9094 g/g
...LC537-PFNA_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFNA_00001	0.0055 g	Perfluorononanoic acid (PFNA)	1059.3 ug/mL
....LC537_PFNA_00001	07/25/17		TCI America, Lot QN44F		(Purchased Reagent)		Perfluorononanoic acid (PFNA)	0.963 g/g
...LC537-PFOA_00005	06/30/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOA_00001	0.0103 g	Perfluorooctanoic acid (PFOA)	2057.94 ug/mL
....LC537_PFOA_00001	06/30/15		Fluka, Lot SZBA162XV		(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	0.999 g/g
...LC537-PFOS_00003	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOS_00001	0.0055 g	Perfluorooctane Sulfonate (PFOS)	1001.66 ug/mL
....LC537_PFOS_00001	07/06/16		Fluka, Lot SZBB187XV		(Purchased Reagent)		Perfluorooctane Sulfonate (PFOS)	0.9106 g/g
.LC537-IS_00008	08/12/15	02/02/15	Methanol, Lot 090285	10 mL	LCM2PFOA_00004	0.2 mL	13C2-PFOA	1 ug/mL
					LCMPFOS_00007	0.6 mL	13C4 PFOS	2.868 ug/mL
..LCM2PFOA_00004	03/19/17		Wellington Laboratories, Lot M2PFOA0312		(Purchased Reagent)		13C2-PFOA	50 ug/mL
..LCMPFOS_00007	10/09/19		Wellington Laboratories, Lot MPFOS1014		(Purchased Reagent)		13C4 PFOS	47.8 ug/mL
.LC537-SU_00010	08/12/15	02/12/15	Methanol, Lot 090285	25 mL	LCMPFDA_00004	100 uL	13C2 PFDA	0.2 ug/mL
					LCMPFHxA_00005	100 uL	13C2 PFHxA	0.2 ug/mL
..LCMPFDA_00004	04/13/19		Wellington Laboratories, Lot MPFDA0414		(Purchased Reagent)		13C2 PFDA	50 ug/mL
..LCMPFHxA_00005	04/13/19		Wellington Laboratories, Lot MPFHxA0414		(Purchased Reagent)		13C2 PFHxA	50 ug/mL
LC537-LSP_00004	06/30/15	02/13/15	Methanol, Lot 090285	10 mL	LC537SPIM_00006	0.05 mL	Perfluorobutane Sulfonate	451 ng/mL

ED_001342_00001134-00173

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorobutanesulfonic acid (PFBS)	451 ng/mL
							Perfluoroheptanoic acid (PFHpA)	49.5 ng/mL
							Perfluorohexanesulfonic acid(PFHxS)	150.233 ng/mL
							Perfluorononanoic acid (PFNA)	100.104 ng/mL
							Perfluorooctanoic acid (PFOA)	100.325 ng/mL
							Perfluorooctane Sulfonate (PFOS)	200.332 ng/mL
.LC537SPIM_00006	06/30/15	02/12/15	Methanol, Lot 090285	10 mL	LC537-PFBS_00003	0.44 mL	Perfluorobutane Sulfonate	90.2 ug/mL
							Perfluorobutanesulfonic acid (PFBS)	90.2 ug/mL
					LC537-PFHpA_00006	0.1 mL	Perfluoroheptanoic acid (PFHpA)	9.9 ug/mL
					LC537-PFHxS_00004	0.295 mL	Perfluorohexanesulfonic acid(PFHxS)	30.0466 ug/mL
					LC537-PFNA_00004	0.189 mL	Perfluorononanoic acid (PFNA)	20.0208 ug/mL
					LC537-PFOA_00005	0.0975 mL	Perfluorooctanoic acid (PFOA)	20.0649 ug/mL
					LC537-PFOS_00003	0.4 mL	Perfluorooctane Sulfonate (PFOS)	40.0664 ug/mL
..LC537-PFBS_00003	09/13/15	09/13/14	Methanol, Lot 067374	6 mL	LC537_PFBS_00001	0.0123 g	Perfluorobutane Sulfonate	2050 ug/mL
							Perfluorobutanesulfonic acid (PFBS)	2050 ug/mL
...LC537_PFBS_00001	07/13/17		Sigma, Lot MKBF7792		(Purchased Reagent)		Perfluorobutane Sulfonate	1 g/g
							Perfluorobutanesulfonic acid (PFBS)	1 g/g
..LC537-PFHpA_00006	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHpA_00001	0.005 g	Perfluoroheptanoic acid (PFHpA)	990 ug/mL
...LC537_PFHpA_00001	10/31/16		Aldrich, Lot BCBG3662V		(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	0.99 g/g
..LC537-PFHxS_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHxS_00001	0.0056 g	Perfluorohexanesulfonic acid(PFHxS)	1018.53 ug/mL
...LC537_PFHxS_00001	07/06/16		Sigma, Lot BCBF9742V		(Purchased Reagent)		Perfluorohexanesulfonic acid(PFHxS)	0.9094 g/g
..LC537-PFNA_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFNA_00001	0.0055 g	Perfluorononanoic acid (PFNA)	1059.3 ug/mL
...LC537_PFNA_00001	07/25/17		TCI America, Lot QN44F		(Purchased Reagent)		Perfluorononanoic acid (PFNA)	0.963 g/g
..LC537-PFOA_00005	06/30/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOA_00001	0.0103 g	Perfluorooctanoic acid (PFOA)	2057.94 ug/mL
...LC537_PFOA_00001	06/30/15		Fluka, Lot SZBA162XV		(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	0.999 g/g
..LC537-PFOS_00003	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOS_00001	0.0055 g	Perfluorooctane Sulfonate (PFOS)	1001.66 ug/mL
...LC537_PFOS_00001	07/06/16		Fluka, Lot SZBB187XV		(Purchased Reagent)		Perfluorooctane Sulfonate (PFOS)	0.9106 g/g
LC537-MSP_00004	06/30/15	02/13/15	Methanol, Lot 090285	10 mL	LC537SPIM_00006	0.2 mL	Perfluorobutane Sulfonate	1804 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	1804 ng/mL
							Perfluoroheptanoic acid (PFHpA)	198 ng/mL

ED_001342_00001134-00174

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorohexanesulfonic acid(PFHxS)	600.932 ng/mL
							Perfluorononanoic acid (PFNA)	400.415 ng/mL
							Perfluorooctanoic acid (PFOA)	401.298 ng/mL
							Perfluorooctane Sulfonate (PFOS)	801.328 ng/mL
.LC537SPIM_00006	06/30/15	02/12/15	Methanol, Lot 090285	10 mL	LC537-PFBS_00003	0.44 mL	Perfluorobutane Sulfonate	90.2 ug/mL
							Perfluorobutanesulfonic acid (PFBS)	90.2 ug/mL
					LC537-PFHpA_00006	0.1 mL	Perfluoroheptanoic acid (PFHpA)	9.9 ug/mL
					LC537-PFHxS_00004	0.295 mL	Perfluorohexanesulfonic acid(PFHxS)	30.0466 ug/mL
					LC537-PFNA_00004	0.189 mL	Perfluorononanoic acid (PFNA)	20.0208 ug/mL
					LC537-PFOA_00005	0.0975 mL	Perfluorooctanoic acid (PFOA)	20.0649 ug/mL
					LC537-PFOS_00003	0.4 mL	Perfluorooctane Sulfonate (PFOS)	40.0664 ug/mL
..LC537-PFBS_00003	09/13/15	09/13/14	Methanol, Lot 067374	6 mL	LC537_PFBS_00001	0.0123 g	Perfluorobutane Sulfonate	2050 ug/mL
							Perfluorobutanesulfonic acid (PFBS)	2050 ug/mL
...LC537_PFBS_00001	07/13/17	Sigma, Lot MKBF7792			(Purchased Reagent)		Perfluorobutane Sulfonate	1 g/g
							Perfluorobutanesulfonic acid (PFBS)	1 g/g
..LC537-PFHpA_00006	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHpA_00001	0.005 g	Perfluoroheptanoic acid (PFHpA)	990 ug/mL
...LC537_PFHpA_00001	10/31/16	Aldrich, Lot BCBG3662V			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	0.99 g/g
..LC537-PFHxS_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFHxS_00001	0.0056 g	Perfluorohexanesulfonic acid(PFHxS)	1018.53 ug/mL
...LC537_PFHxS_00001	07/06/16	Sigma, Lot BCBF9742V			(Purchased Reagent)		Perfluorohexanesulfonic acid(PFHxS)	0.9094 g/g
..LC537-PFNA_00004	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFNA_00001	0.0055 g	Perfluorononanoic acid (PFNA)	1059.3 ug/mL
...LC537_PFNA_00001	07/25/17	TCI America, Lot QN44F			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	0.963 g/g
..LC537-PFOA_00005	06/30/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOA_00001	0.0103 g	Perfluorooctanoic acid (PFOA)	2057.94 ug/mL
...LC537_PFOA_00001	06/30/15	Fluka, Lot SZBA162XV			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	0.999 g/g
..LC537-PFOS_00003	09/13/15	09/13/14	Methanol, Lot 067374	5 mL	LC537_PFOS_00001	0.0055 g	Perfluorooctane Sulfonate (PFOS)	1001.66 ug/mL
...LC537_PFOS_00001	07/06/16	Fluka, Lot SZBB187XV			(Purchased Reagent)		Perfluorooctane Sulfonate (PFOS)	0.9106 g/g
LC537-SU_00010	08/12/15	02/12/15	Methanol, Lot 090285	25 mL	LCMPFDA_00004	100 uL	13C2 PFDA	0.2 ug/mL
					LCMPFHxA_00005	100 uL	13C2 PFHxA	0.2 ug/mL
.LCMPFDA_00004	04/13/19	Wellington Laboratories, Lot MPFDA0414			(Purchased Reagent)		13C2 PFDA	50 ug/mL
.LCMPFHxA_00005	04/13/19	Wellington Laboratories, Lot MPFHxA0414			(Purchased Reagent)		13C2 PFHxA	50 ug/mL

ED_001342_00001134-00175

Reagent

LC537_PFBS_00001

7-13-12 DEG

SIGMA-ALDRICH®

sigma-aldrich.com

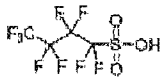
3050 Spruce Street,Saint Louis,MO 63103,USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

12LCMS0509

Certificate of Analysis

Product Name:
Nonafluorobutane-1-sulfonic acid - 97%

Product Number:	**562629**
Lot Number:	**MKBF7792**
Brand:	ALDRICH
CAS Number:	375-73-5
MDL Number:	MFCD01320794
Formula:	C4HF9O3S
Formula Weight:	300.1 g/mol
Storage Temperature:	Store at 2 - 8 °C
Quality Release Date:	18 APR 2011



PFBS

Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared spectrum	Conforms to Structure	Conforms
Fluorine NMR Spectra	Conforms to Structure	Conforms
Purity (Titration by NaOH)	96.5 - 103.5%	100.2%

Jamie Gleason

Jamie Gleason, Manager
Quality Control
Milwaukee, Wisconsin US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Reagent

LC537_PFHpA_00001

SIGMA-ALDRICH

ALDRICH chemistry

Industriestrasse 25, CH-9471 Buchs (SG), Switzerland
Tel: +41 81 755 2511 Fax: +41 81 756 5449

Certificate of Analysis

Inv 821
12LCMS0580

Product Name:	PERFLUOROHEPTANOIC ACID 99 %
Product Number:	342041
Product Brand:	Aldrich
Molecular Formula:	$C_7HF_{13}O_2$
Molecular Mass:	364.06
CAS Number:	375-85-9

TEST	SPECIFICATION	LOT BCBG3662V RESULTS
APPEARANCE (COLOR)	COLORLESS OR WHITE	WHITE
APPEARANCE (FORM)	LIQUID OR SOLID	SOLID
TITRATION	98.5 - 101.5 %	101.5 %
TITRATION (METHOD)	BACK TITRATION	BACK TITRATION
PURITY (GC AREA %)	≥ 98.5 %	99.0 %
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS

QC RELEASE DATE	02/NOV/11
RECOMMENDED RETEST DATE	OCT/16

Dr. Claudia Geitner
Manager Quality Control
Buchs, Switzerland

Sigma-Aldrich warrants, that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice for additional terms and conditions of sale. The values given on the 'Certificate of Analysis' are the results determined at the time of analysis.

Reagent

LC537_PFHxS_00001

SIGMA-ALDRICH

ALDRICH

Industriestrasse 25, CH-9471 Buchs (SG), Switzerland
Tel: +41 81 755 2511 Fax: +41 81 756 5449

7-13-12 DEG
12LCMS0510

Certificate of Analysis

Product Name:	TRIDECAFLUOROHEXANE-1-SULFONIC ACID POTASSIUM SALT >= 98.0 % T
Product Number:	50929
Product Brand:	Aldrich
Molecular Formula:	$C_6F_{13}KO_3S$
Molecular Mass:	438.20
CAS Number:	3871-99-6

TEST	SPECIFICATION	LOT BCBF9742V RESULTS
APPEARANCE (COLOR)	WHITE TO FAINT BEIGE	WHITE
APPEARANCE (FORM)	POWDER OR CRYSTALS	POWDER
TITRATION (ION EXCHANGE)	≥ 98.0 %	99.6 %
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS

QC RELEASE DATE 29/JUN/11

Dr. Claudia Geitner
Manager Quality Control
Buchs, Switzerland

$$\text{MW Corr} = \frac{(\text{K form}) - (\text{K}) + (\text{H})}{(438.20 - 39.10 + 1.01)} = 0.91307 \text{ (anion form)}$$

$$438.20 \text{ (K form)}$$

Purity = 90.94% w/M.W correction

PFHxS CAS # 355-46-4

Sigma-Aldrich warrants, that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice for additional terms and conditions of sale. The values given on the 'Certificate of Analysis' are the results determined at the time of analysis.

Reagent

LC537_PFNA_00001

Certificate of Analysis

Jul 26, 2012 (JST)

TOKYO CHEMICAL INDUSTRY CO.,LTD.
4-10-1 Nihonbashi-Honcho, Chuo-ku, Tokyo 103-0023 Japan

Chemical Name: Heptadecafluorononanoic Acid		
Product Number: H0843	Lot: QN44F	

Tests	Results	Specifications
Purity(GC)	96.3 %	min. 95.0 %
Purity(Neutralization titration)	98.1 %	min. 95.0 %
Melting point	63.3 deg-C	62.0 to 67.0 deg-C

Customer service:
TCI AMERICA
Tel: +1-800-423-8616 / +1-503-283-1681
Fax: +1-888-520-1075 / +1-503-283-1987
E-mail: sales@tciamerica.com

PFNA

Reagent

LC537_PFOA_00001

SIGMA-ALDRICH

CERTIFICATE OF ANALYSIS

Sigma-Aldrich Laborchemikalien GmbH D-30918 Seelze
Telefon: +49 5137 8238-150

Seelze, 07.02.2011/159919/10/12640

Order-No.:
Customer-No.:

Order-Code:

Quantity:

Production Date: 11.Jun.2010
Expiry Date: 11.Jun.2015

Article/Product: 33824 Batch : SZBA162XV

Pentadecafluorooctanoic acid OEKANAL®

PFOA

Reference Material (RM)

1. General Information

Formula: C8HF15O2
CAS-No.: [335-67-1]
Usage : PFOA

Molar mass: 414.07 g/Mole
Recomm. storage temp.: roomtemp.

2. Batch Analysis

identiy (GC-MS)	complying
Assay (GCMS)	>99.9 %
Date of Analysis	16.Jun.2010

3. Advice and Remarks

- The minimum shelf life is based on the current knowledge and holds only for proper storage conditions in the originally closed flasks/ packages.
- Whenever the container is opened for removal of aliqout portions of the substance, the person handling the substance must assure, that the integrity of the substance is maintained and proper records of all its handlings are kept. Special care has to be taken to avoid any contamination or adulteration of the substance.
- We herewith confirm that the delivery is effected according to the technical delivery conditions agreed.
- Particular properties of the products or the suitability for a particular area of application are not assured.
- We guarantee a proper quality within our General Conditions of Sales.

Sigma-Aldrich Laborchemikalien GmbH
Quality Management SA-LC

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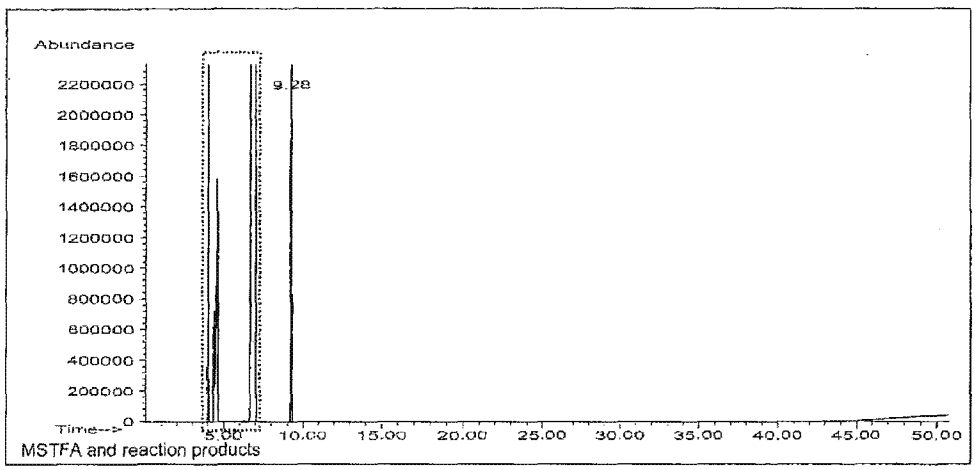
02/25/2015

Article: **Pentafluorooctanic acid OEKANAL**
Article-No.: **33824**
Batch: **SZBA162XV**

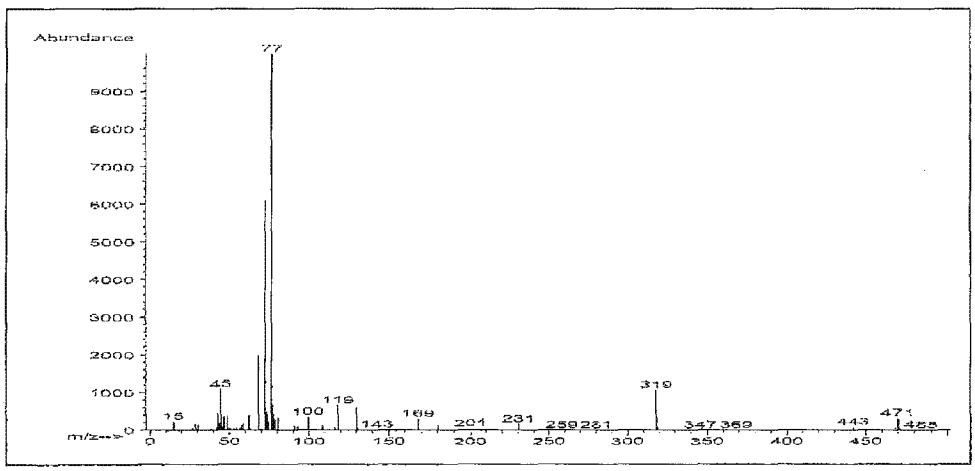
Column: XTI-5 (Restek); 30 m; fs cap.; I.D.:0.25 mm; 1 µm df
Injector: Split mode
Injection: approx. 0.5 µl of reaction mixture with MSTFA (approx. 10 mg + 200 µl MSTFA)
Inj.-temp.: 280°C
Oven-temp.: 40°C (for 2 min) to 320°C (6°C/min) hold for 2 min
Split: 1:100
Flow: 1 ml He/min (Constant flow mode)
Detector: MSD
Mass range: 10-600 amu (Scan mode)
Evaluation: Purity: Total Ion Chromatogram
(MSTFA and reaction products blinded out in report)
Identity: Mass spectrum complies
Operator: Ahrens

Total Ion Chromatogram:



Ret.time	Area	Area-%	Component
9.28	160.26	100.0	Pentadecafluoroctansäure (as TMS-ester)

Mass spectrum:



Reagent

LC537_PFOS_00001

SIGMA-ALDRICH 7-13-12 DEG

CERTIFICATE OF ANALYSIS 12LCMS0511

Sigma-Aldrich Laborchemikalien GmbH D-30918 Seelze
Telefon: +49 5137 8238-150

Seelze, 06.07.2011/212805/11/15770

Order-No.:
Customer-No.:

Order-Code:

Quantity:

Production Date: 06.Jul.2011
Expiry Date: 06.Jul.2016

Article/Product: 33829 Batch : SZBB187XV

Heptadecafluorooctanesulfonic acid potassium salt OEKANAL® PFOS-K+

Reference Material (RM)

1. General Information

Formula: C8F17KO3S
CAS-No.: [2795-39-3]
Usage : PFOS

Molar mass: 538.22 g/Mole
Recomm. storage temp.: roomtemp.

The estimated uncertainty of a single measurement of the assay can be expected to be 0.5 % relative (confidence level = 95%, n= 6) whereby the assay measurements are calculated by 100% minus found impurities.

2. Batch Analysis

Identity	complying
Assay (LC-MS)	98 %
Date of Analysis	06.Jul.2011

$$\text{MW correction} = \frac{538.22 - 39.10 + 1.01}{538.22} = \frac{500.13}{538.22} = 0.92923$$

3. Advice and Remarks

Purity 91.06%

- The minimum shelf life is based on the current knowledge and holds only for proper storage conditions in the originally closed flasks/ packages.
- Whenever the container is opened for removal of aliqout portions of the substance, the person handling the substance must assure, that the integrity of the substance is maintained and proper records of all its handlings are kept. Special care has to be taken to avoid any contamination or adulteration of the substance.
- We herewith confirm that the delivery is effected according to the technical delivery conditions agreed.
- Particular properties of the products or the suitability for a particular area of application are not assured.
- We guarantee a proper quality within our General Conditions of Sales.

PFOS CAS# 1763-23-1

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Quality Management SA-LC

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02/25/2015

537

Perflourinated Alkyl Acids (LC/MS)

ED_001342_00001134-00189

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Atlantis d-C ID: 2.1 (mm)

Client Sample ID	Lab Sample ID	PFHxA	#	PFDA	#
Finished Water	320-11644-1	104		106	
Well 7	320-11644-2	101		111	
Field Equipment Blank	320-11644-3	145	X	147	X
Lab Trip Blanks	320-11644-4	118		117	
Well 3	320-11644-5	122		128	
Well 3 DL	320-11644-5 DL	109		104	
Well 10	320-11644-6	114		116	
Well 10 DL	320-11644-6 DL	109		106	
Well 6	320-11644-7	108		93	
	MB 320-65881/1-A	112		94	
	LCS 320-65881/2-A	120		93	
Well 7 MS	320-11644-2 MS	95		95	
Well 7 MSD	320-11644-2 MSD	111		104	

	QC LIMITS
PFHxA = 13C2 PFHxA	70-130
PFDA = 13C2 PFDA	70-130

Column to be used to flag recovery values

FORM II 537

ED_001342_00001134-00190

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 23FEB15A4A_43.d

Lab ID: LCS 320-65881/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Perfluorooctane Sulfonate (PFOS)	0.160	0.157	98	70-130	
Perfluorooctanoic acid (PFOA)	0.0803	0.0741	92	70-130	
Perfluorononanoic acid (PFNA)	0.0801	0.0796	99	70-130	
Perfluorohexanesulfonic acid(PFHxS)	0.120	0.118	98	70-130	
Perfluoroheptanoic acid (PFHpA)	0.0396	0.0380	96	70-130	
Perfluorobutanesulfonic acid (PFBS)	0.361	0.317	88	70-130	

Column to be used to flag recovery and RPD values

FORM III 537

ED_001342_00001134-00191

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 23FEB15A4A_19.d

Lab ID: 320-11644-2 MS Client ID: Well 7 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Perfluorooctane Sulfonate (PFOS)	0.0398	ND	ND	NC	70-130	
Perfluorooctanoic acid (PFOA)	0.0199	1.0	0.906	-457	70-130	4
Perfluorononanoic acid (PFNA)	0.0199	ND	ND	NC	70-130	
Perfluorohexanesulfonic acid(PFHxS)	0.0299	ND	ND	NC	70-130	
Perfluoroheptanoic acid (PFHpA)	0.00984	ND	ND	NC	70-130	
Perfluorobutanesulfonic acid (PFBS)	0.0897	ND	ND	NC	70-130	

Column to be used to flag recovery and RPD values

FORM III 537

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 23FEB15A4A_20.d

Lab ID: 320-11644-2 MSD Client ID: Well 7 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorooctane Sulfonate (PFOS)	0.0394	ND	NC	NC	30	70-130	
Perfluorooctanoic acid (PFOA)	0.0197	0.981	-83	8	30	70-130	4
Perfluorononanoic acid (PFNA)	0.0197	ND	NC	NC	30	70-130	
Perfluorohexanesulfonic acid(PFHxS)	0.0295	ND	NC	NC	30	70-130	
Perfluoroheptanoic acid (PFHpA)	0.00973	0.0467 J	NC	NC	30	70-130	
Perfluorobutanesulfonic acid (PFBS)	0.0886	ND	NC	NC	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 537

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Lab File ID: 23FEB15A4A_42.d Lab Sample ID: MB 320-65881/1-A

Matrix: Water Date Extracted: 02/18/2015 09:18

Instrument ID: A4 Date Analyzed: 02/24/2015 04:44

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
Finished Water	320-11644-1	23FEB15A4A_17.d	02/23/2015 16:25
Well 7	320-11644-2	23FEB15A4A_18.d	02/23/2015 16:54
Well 7 MS	320-11644-2 MS	23FEB15A4A_19.d	02/23/2015 17:24
Well 7 MSD	320-11644-2 MSD	23FEB15A4A_20.d	02/23/2015 17:54
Well 3 DL	320-11644-5 DL	23FEB15A4A_21.d	02/23/2015 18:23
Well 10 DL	320-11644-6 DL	23FEB15A4A_22.d	02/23/2015 18:53
Well 6	320-11644-7	23FEB15A4A_23.d	02/23/2015 19:22
	LCS 320-65881/2-A	23FEB15A4A_43.d	02/24/2015 05:14
Field Equipment Blank	320-11644-3	23FEB15A4A_54.d	02/24/2015 11:04
Lab Trip Blanks	320-11644-4	23FEB15A4A_55.d	02/24/2015 11:34
Well 3	320-11644-5	23FEB15A4A_57.d	02/24/2015 12:33
Well 10	320-11644-6	23FEB15A4A_58.d	02/24/2015 13:02

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID: Finished Water
Lab Sample ID: 320-11644-1
Matrix: Water
Lab File ID: 23FEB15A4A_17.d
Analysis Method: 537
Date Collected: 02/11/2015 09:39
Extraction Method: 537
Date Extracted: 02/18/2015 09:18
Sample wt/vol: 253.1(mL)
Date Analyzed: 02/23/2015 16:25
Con. Extract Vol.: 1.00(mL)
Dilution Factor: 10
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	ND		0.40	0.15
335-67-1	Perfluorooctanoic acid (PFOA)	0.96		0.20	0.093
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.11
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	ND		0.30	0.12
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.099	0.045
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.89	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	104		70-130
STL00996	13C2 PFDA	106		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_17.d
Lims ID: 320-11644-B-1-A Lab Sample ID: 320-11644-1
Client ID: Finished Water
Sample Type: Client
Inject. Date: 23-Feb-2015 16:25:20 ALS Bottle#: 29 Worklist Smp#: 44
Injection Vol: 10.0 ul Dil. Factor: 10.0000
Sample Info: 320-11644-B-1-A 10x
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:18 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 07:03:28

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
$ 2 13C2 PFHxA								
314.6 > 269.7	18.013	18.040	-0.027	1.000	105285	1.04	200	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.830	18.854	-0.024	1.000	50163	0.8037	42.2	
* 6 13C2-PFOA								
414.7 > 369.7	19.512	19.532	-0.020		163950	1.00	111	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.502	19.533	-0.031	1.000	2743735	24.4	856	
* 7 13C4 PFOS								
502.4 > 79.7	20.155	20.189	-0.034		343914	2.87	312	
$ 10 13C2 PFDA								
514.4 > 469.5	20.978	21.021	-0.043	1.000	130533	1.06	127	

Report Date: 24-Feb-2015 07:03:28 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_17.d

Injection Date: 23-Feb-2015 16:25:20 Instrument ID: A4

Lims ID: 320-11644-B-1-A Lab Sample ID: 320-11644-1

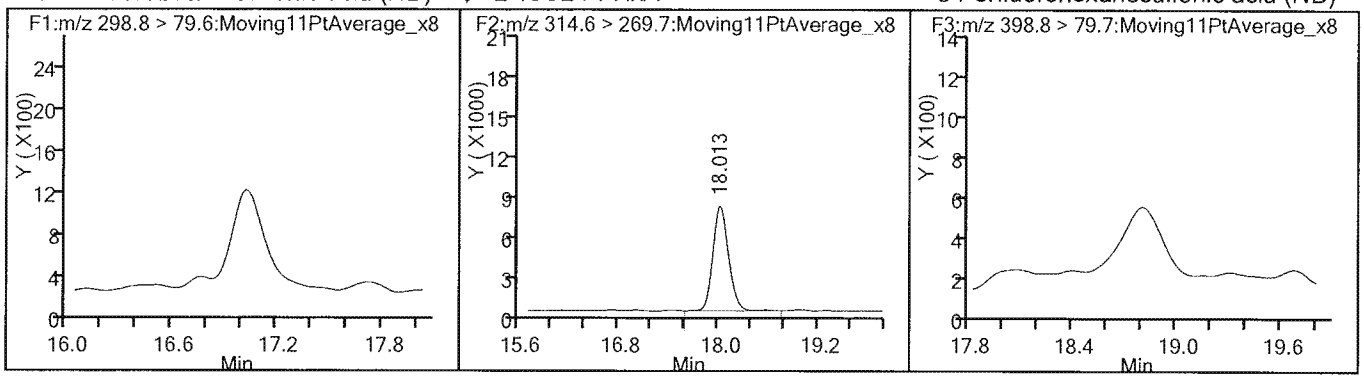
Client ID: Finished Water

Operator ID: JRB ALS Bottle#: 29 Worklist Smp#: 44

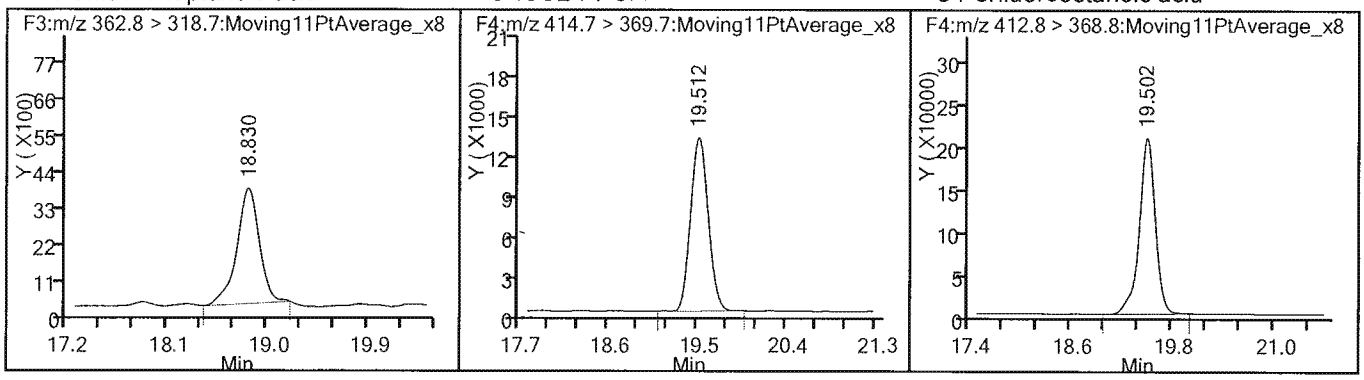
Injection Vol: 10.0 ul Dil. Factor: 10.0000

Method: 537_A4 Limit Group: LC 537 ICAL

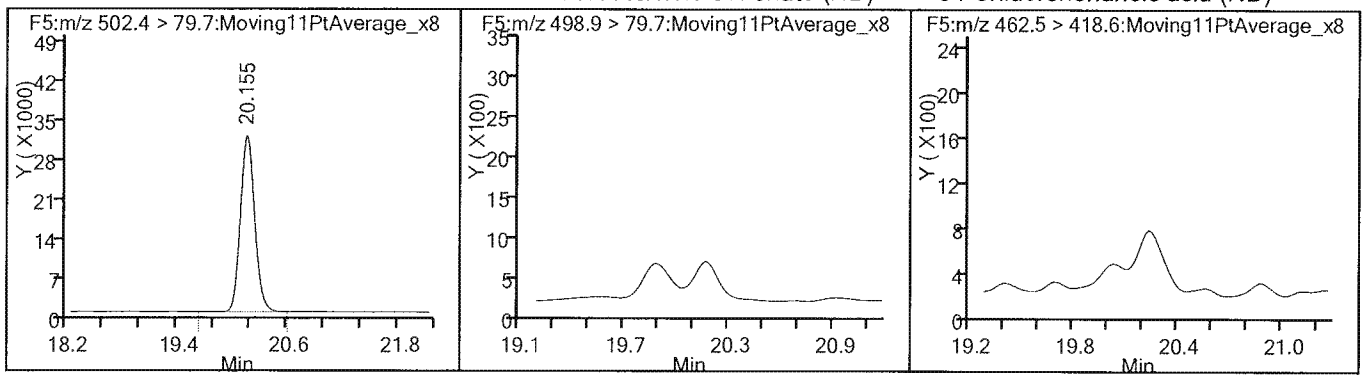
1 Perfluorobutanesulfonic acid (ND) $ 2 13C2 PFHxA 3 Perfluorohexanesulfonic acid (ND)



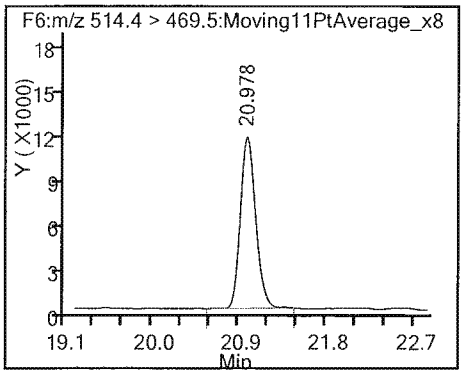
4 Perfluoroheptanoic acid * 6 13C2-PFOA 5 Perfluorooctanoic acid



* 7 13C4 PFOS 8 Perfluorooctanoic Sulfonate (ND) 9 Perfluorononanoic acid (ND)



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-11644-1

SDG No.:

Client Sample ID: Well 7 | Lab Sample ID: 320-11644-2

Matrix: Water | Lab File ID: 23FEB15A4A_18.d

Analysis Method: 537 | Date Collected: 02/11/2015 10:13

Extraction Method: 537 | Date Extracted: 02/18/2015 09:18

Sample wt/vol: 250.8(mL) | Date Analyzed: 02/23/2015 16:54

Con. Extract Vol.: 1.00(mL) | Dilution Factor: 10

Injection Volume: 10(uL) | GC Column: Atlantis d-C18 ID: 2.1(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 66293 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	ND		0.40	0.15
335-67-1	Perfluorooctanoic acid (PFOA)	1.0		0.20	0.094
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.11
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	ND		0.30	0.12
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.10	0.046
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.90	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	101		70-130
STL00996	13C2 PFDA	111		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_18.d
Lims ID: 320-11644-B-2-A Lab Sample ID: 320-11644-2
Client ID: Well 7
Sample Type: Client
Inject. Date: 23-Feb-2015 16:54:56 ALS Bottle#: 30 Worklist Smp#: 45
Injection Vol: 10.0 ul Dil. Factor: 10.0000
Sample Info: 320-11644-B-2-A 10x
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:18 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 07:03:38

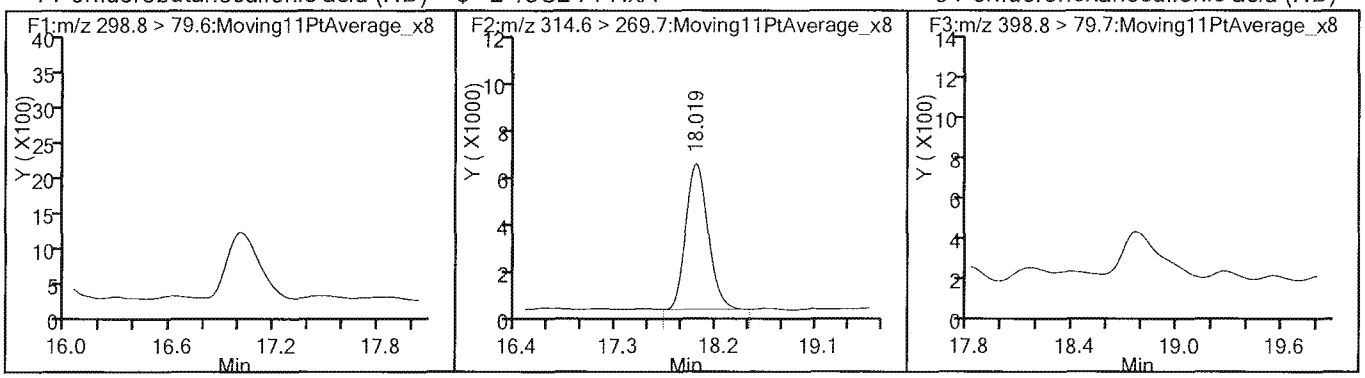
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
$ 2 13C2 PFHxA								
314.6 > 269.7	18.019	18.040	-0.021	1.000	86378	1.01	157	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.836	18.854	-0.018	1.000	44504	0.8430	37.4	
* 6 13C2-PFOA								
414.7 > 369.7	19.507	19.532	-0.025		138661	1.00	108	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.502	19.533	-0.031	1.000	2376876	25.0	739	
* 7 13C4 PFOS								
502.4 > 79.7	20.155	20.189	-0.034		283333	2.87	239	
$ 10 13C2 PFDA								
514.4 > 469.5	20.978	21.021	-0.043	1.000	114967	1.11	118	

Report Date: 24-Feb-2015 07:03:38 Chrom Revision: 2.2 15-Jan-2015 13:05:58

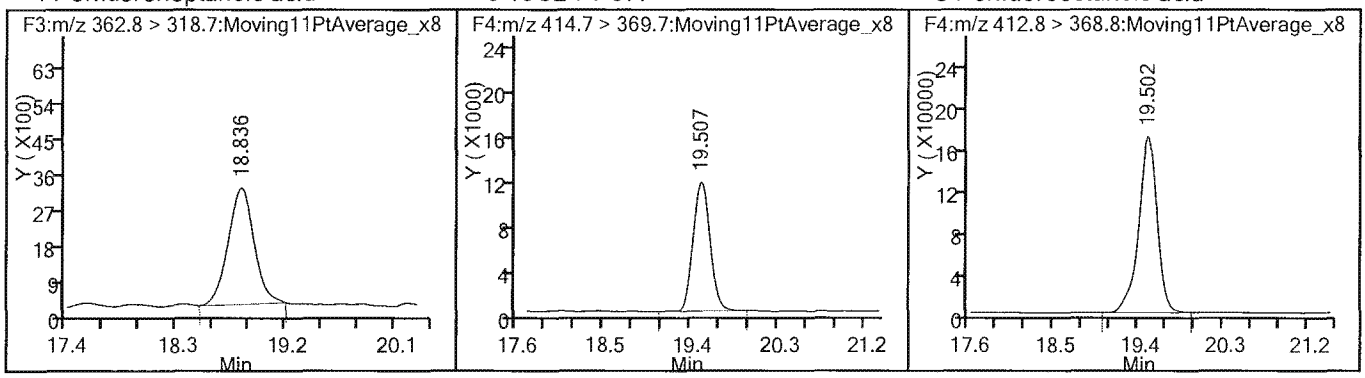
TestAmerica Sacramento

Data File:	\\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_18.d				
Injection Date:	23-Feb-2015 16:54:56	Instrument ID:	A4		
Lims ID:	320-11644-B-2-A	Lab Sample ID:	320-11644-2		
Client ID:	Well 7				
Operator ID:	JRB	ALS Bottle#:	30	Worklist Smp#:	45
Injection Vol:	10.0 ul	Dil. Factor:	10.0000		
Method:	537_A4	Limit Group:	LC 537 ICAL		

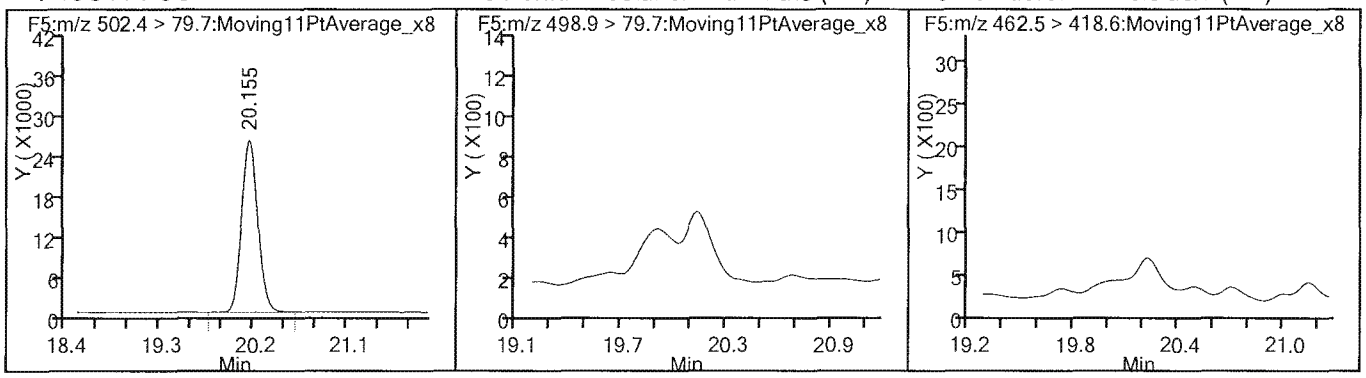
1 Perfluorobutanesulfonic acid (ND) $ 2 13C2 PFHxA 3 Perfluorohexanesulfonic acid (ND)



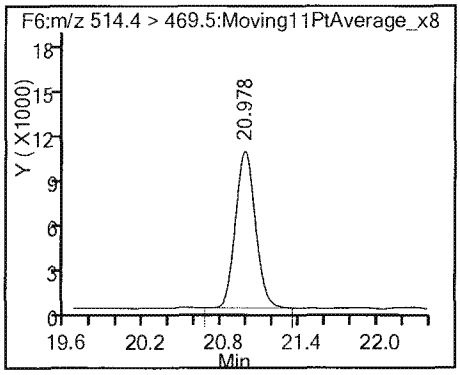
4 Perfluoroheptanoic acid * 6 13C2-PFOA 5 Perfluorooctanoic acid



* 7 13C4 PFOS 8 Perfluorooctanoic Sulfonate (ND) 9 Perfluorononanoic acid (ND)



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID: Field Equipment Blank
Lab Sample ID: 320-11644-3
Matrix: Water
Lab File ID: 23FEB15A4A_54.d
Analysis Method: 537
Date Collected: 02/11/2015 10:36
Extraction Method: 537
Date Extracted: 02/18/2015 09:18
Sample wt/vol: 256.9(mL)
Date Analyzed: 02/24/2015 11:04
Con. Extract Vol.: 1.00(mL)
Dilution Factor: 1
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	ND		0.039	0.015
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.019	0.0092
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.019	0.011
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	ND		0.029	0.012
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.0097	0.0045
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.088	0.046

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	145	X	70-130
STL00996	13C2 PFDA	147	X	70-130

Report Date: 24-Feb-2015 14:06:45 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_54.d
Lims ID: 320-11644-B-3-A Lab Sample ID: 320-11644-3
Client ID: Field Equipment Blank
Sample Type: Client
Inject. Date: 24-Feb-2015 11:04:36 ALS Bottle#: 23 Worklist Smp#: 36
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 320-11644-B-3-A
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 13:21:50 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 12:36:32

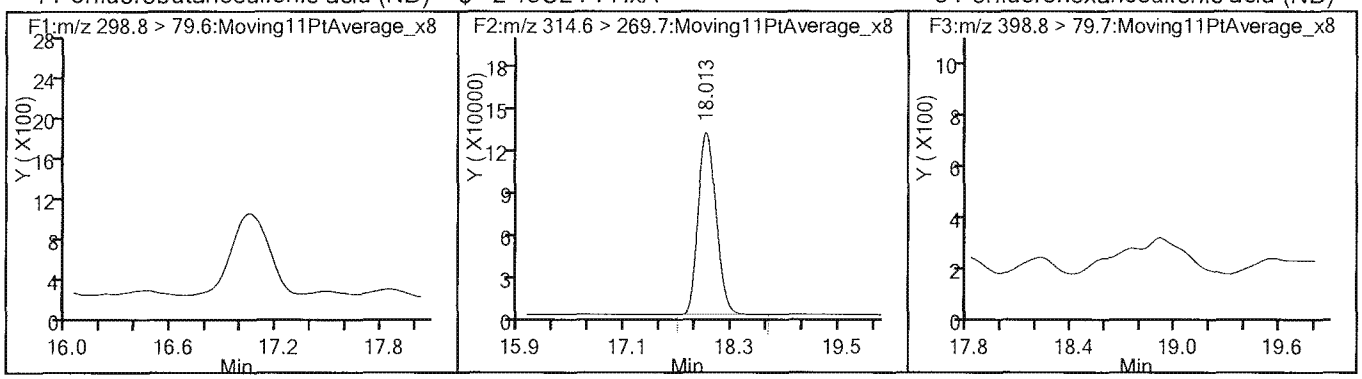
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
$ 2 13C2 PFHxA								
314.6 > 269.7	18.013	18.040	-0.027	1.000	1838157	14.5	2643	
* 6 13C2-PFOA								
414.7 > 369.7	19.517	19.532	-0.015		2051513	10.0	1320	
* 7 13C4 PFOS								
502.4 > 79.7	20.168	20.189	-0.021		5094443	28.7	3285	
$ 10 13C2 PFDA								
514.4 > 469.5	20.992	21.021	-0.029	1.000	2263841	14.7	1822	

Report Date: 24-Feb-2015 14:06:45 Chrom Revision: 2.2 15-Jan-2015 13:05:58

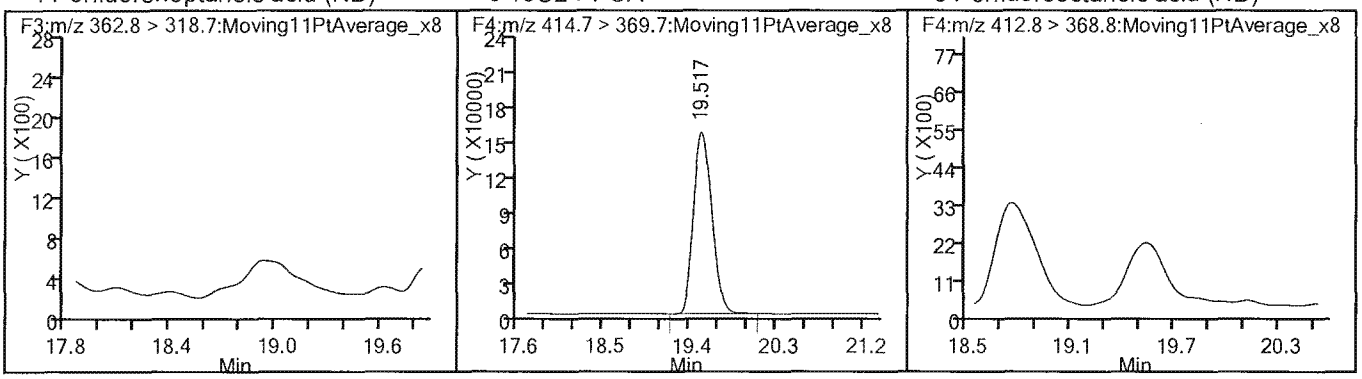
TestAmerica Sacramento

Data File:	\\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_54.d				
Injection Date:	24-Feb-2015 11:04:36	Instrument ID:	A4		
Lims ID:	320-11644-B-3-A	Lab Sample ID:	320-11644-3		
Client ID:	Field Equipment Blank				
Operator ID:	JRB	ALS Bottle#:	23	Worklist Smp#:	36
Injection Vol:	10.0 ul	Dil. Factor:	1.0000		
Method:	537_A4	Limit Group:	LC 537 ICAL		

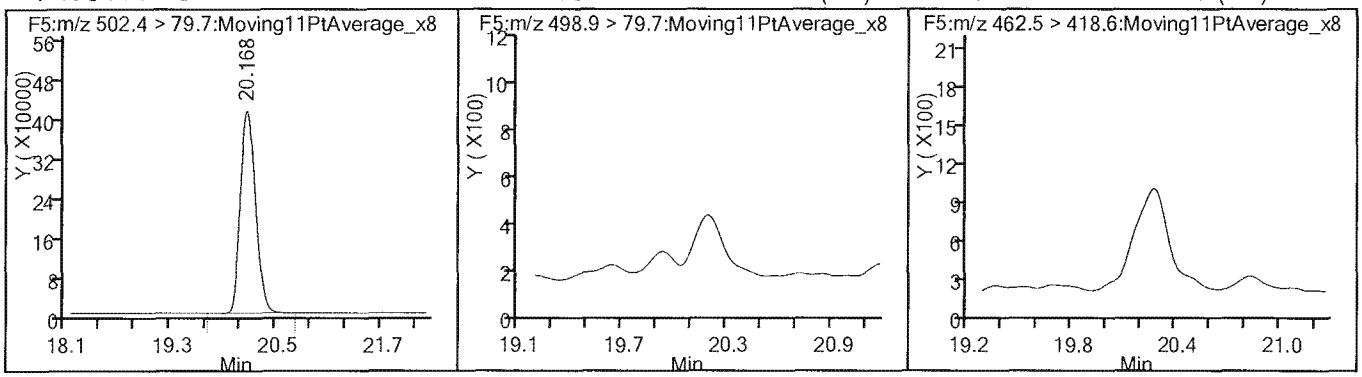
1 Perfluorobutanesulfonic acid (ND) $ 2 13C2 PFHxA 3 Perfluorohexanesulfonic acid (ND)



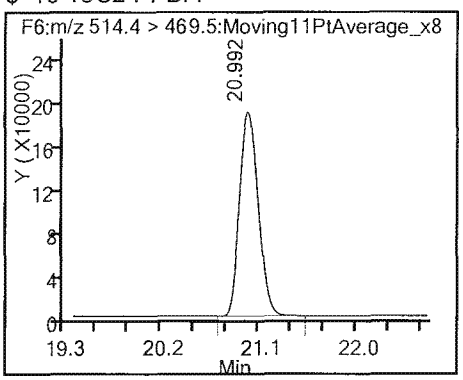
4 Perfluoroheptanoic acid (ND) * 6 13C2-PFOA 5 Perfluorooctanoic acid (ND)



* 7 13C4 PFOS 8 Perfluorooctanoic Sulfonate (ND) 9 Perfluorononanoic acid (ND)



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID: Lab Trip Blanks
Lab Sample ID: 320-11644-4
Matrix: Water
Lab File ID: 23FEB15A4A_55.d
Analysis Method: 537
Date Collected: 02/11/2015 00:00
Extraction Method: 537
Date Extracted: 02/18/2015 09:18
Sample wt/vol: 256.3(mL)
Date Analyzed: 02/24/2015 11:34
Con. Extract Vol.: 1.00(mL)
Dilution Factor: 1
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	ND		0.039	0.015
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.020	0.0092
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.020	0.011
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	ND		0.029	0.012
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.0098	0.0045
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.088	0.046

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	118		70-130
STL00996	13C2 PFDA	117		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_55.d
Lims ID: 320-11644-B-4-A Lab Sample ID: 320-11644-4
Client ID: Lab Trip Blanks
Sample Type: Client
Inject. Date: 24-Feb-2015 11:34:10 ALS Bottle#: 24 Worklist Smp#: 37
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 320-11644-B-4-A
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 12:35:39 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 12:36:42

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
$ 2 13C2 PFHxA								
314.6 > 269.7	18.007	18.040	-0.033	1.000	1115129	11.8	1881	
* 6 13C2-PFOA								
414.7 > 369.7	19.507	19.532	-0.025		1528726	10.0	1115	
* 7 13C4 PFOS								
502.4 > 79.7	20.160	20.189	-0.029		3475034	28.7	2693	
$ 10 13C2 PFDA								
514.4 > 469.5	20.992	21.021	-0.029	1.000	1345725	11.7	1148	

Report Date: 24-Feb-2015 12:36:42 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_55.d

Injection Date: 24-Feb-2015 11:34:10 Instrument ID: A4

Lims ID: 320-11644-B-4-A Lab Sample ID: 320-11644-4

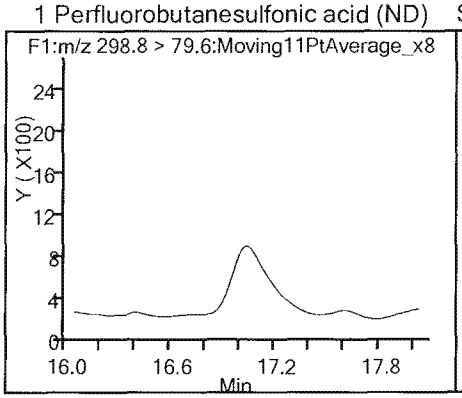
Client ID: Lab Trip Blanks

Operator ID: JRB ALS Bottle#: 24 Worklist Smp#: 37

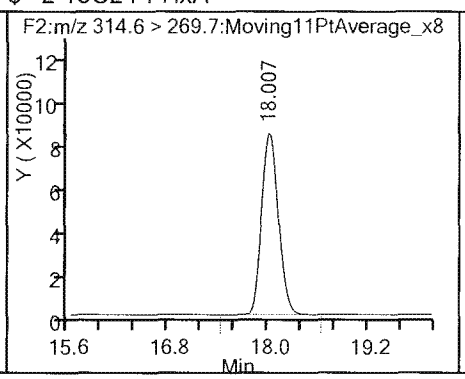
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

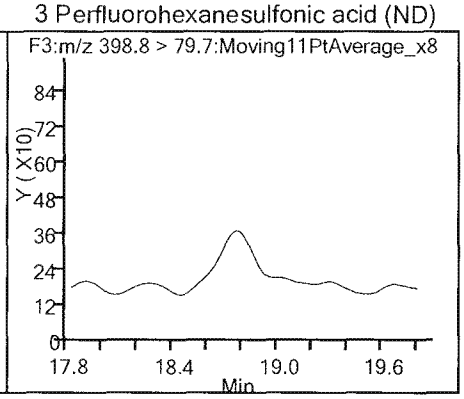
1 Perfluorobutanesulfonic acid (ND)



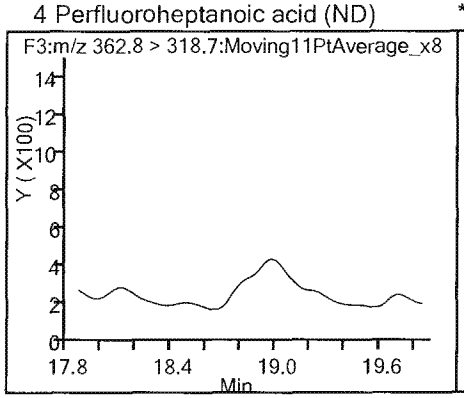
$ 2 13C2 PFHxA



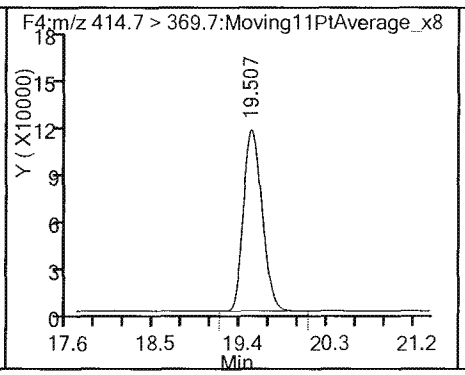
3 Perfluorohexanesulfonic acid (ND)



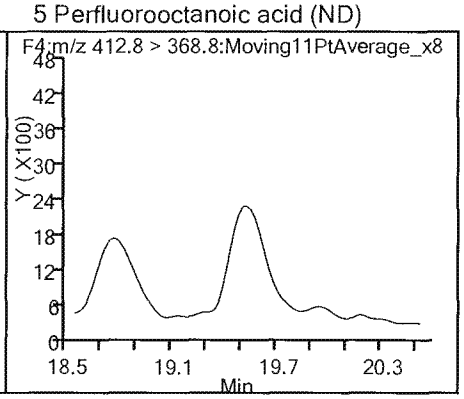
4 Perfluoroheptanoic acid (ND)



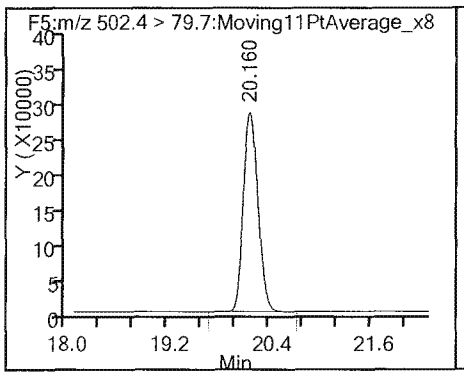
* 6 13C2-PFOA



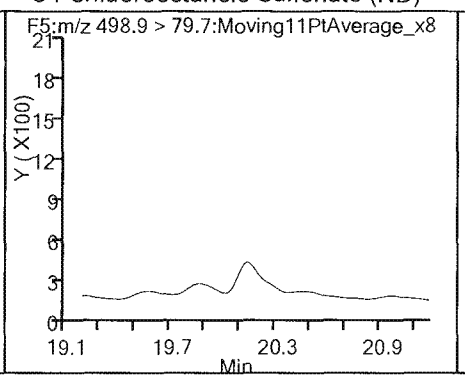
5 Perfluorooctanoic acid (ND)



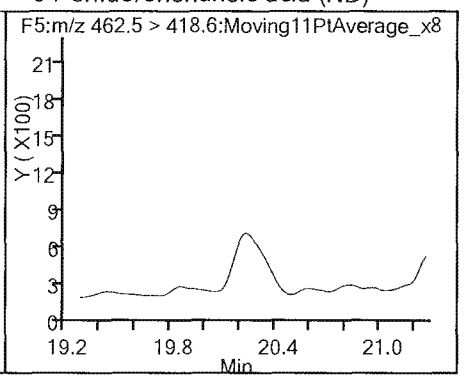
* 7 13C4 PFOS



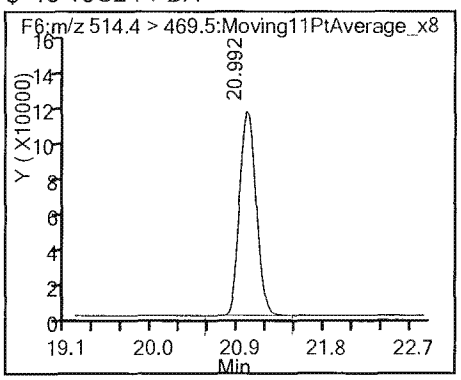
8 Perfluorooctanoic Sulfonate (ND)



9 Perfluorononanoic acid (ND)



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID: Well 3
Lab Sample ID: 320-11644-5
Matrix: Water
Lab File ID: 23FEB15A4A_57.d
Analysis Method: 537
Date Collected: 02/11/2015 10:59
Extraction Method: 537
Date Extracted: 02/18/2015 09:18
Sample wt/vol: 258(mL)
Date Analyzed: 02/24/2015 12:33
Con. Extract Vol.: 1.00(mL)
Dilution Factor: 1
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	ND		0.039	0.015
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.019	0.011
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	ND		0.029	0.012
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0053	J	0.0097	0.0045
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.087	0.046

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	122		70-130
STL00996	13C2 PFDA	128		70-130

Report Date: 25-Feb-2015 06:59:31 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_57.d
Lims ID: 320-11644-B-5-A Lab Sample ID: 320-11644-5
Client ID: Well 3
Sample Type: Client
Inject. Date: 24-Feb-2015 12:33:21 ALS Bottle#: 25 Worklist Smp#: 38
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 320-11644-B-5-A
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 25-Feb-2015 06:58:11 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK022

First Level Reviewer: strumj Date: 25-Feb-2015 06:59:31

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.004	17.040	-0.036	1.000	32749	0.2729	20.8	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.001	18.040	-0.039	1.000	1025145	12.2	1407	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.830	18.854	-0.024	1.000	71300	1.37	23.1	
* 6 13C2-PFOA								
414.7 > 369.7	19.512	19.532	-0.020		1362252	10.0	727	
5 Perfluorooctanoic acid								E
412.8 > 368.8	19.512	19.533	-0.021	1.000	6580969	70.5	1326	E
* 7 13C4 PFOS								
502.4 > 79.7	20.163	20.189	-0.026		3345150	28.7	2024	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.159	20.189	-0.030	1.000	271491	2.69	95.1	
9 Perfluorononanoic acid								
462.5 > 418.6	20.252	20.270	-0.018	1.000	31980	0.3978	13.3	
$ 10 13C2 PFDA								
514.4 > 469.5	20.991	21.021	-0.030	1.000	1310896	12.8	936	

QC Flag Legend

Processing Flags

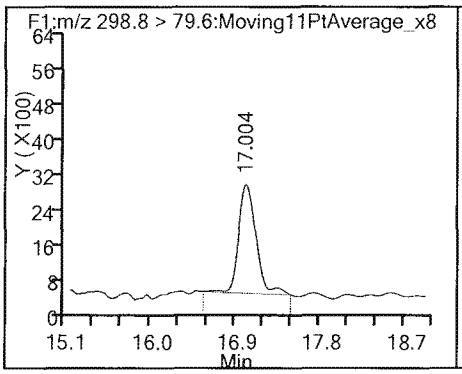
E - Exceeded Maximum Amount

Report Date: 25-Feb-2015 06:59:32 Chrom Revision: 2.2 15-Jan-2015 13:05:58

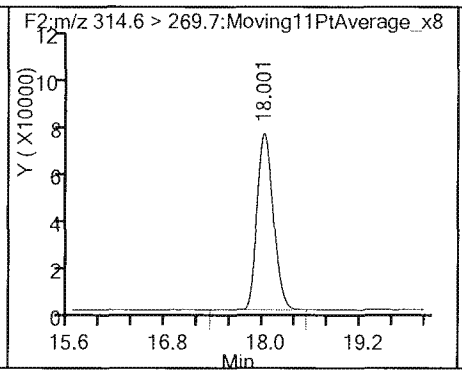
TestAmerica Sacramento

Data File:	\\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_57.d				
Injection Date:	24-Feb-2015 12:33:21	Instrument ID:	A4		
Lims ID:	320-11644-B-5-A	Lab Sample ID:	320-11644-5		
Client ID:	Well 3				
Operator ID:	JRB	ALS Bottle#:	25	Worklist Smp#:	38
Injection Vol:	10.0 ul	Dil. Factor:	1.0000		
Method:	537_A4	Limit Group:	LC 537 ICAL		

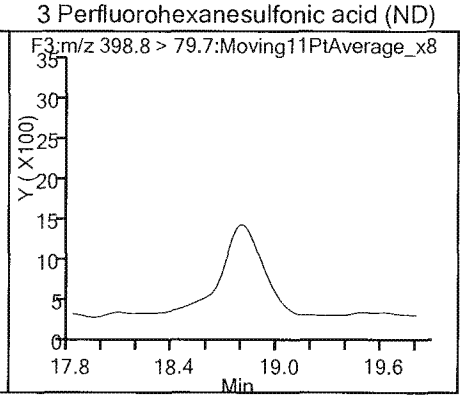
1 Perfluorobutanesulfonic acid



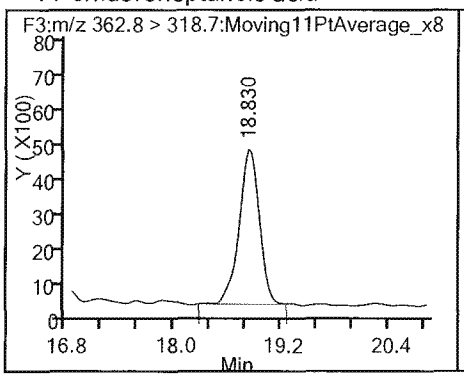
$ 2 13C2 PFHxA



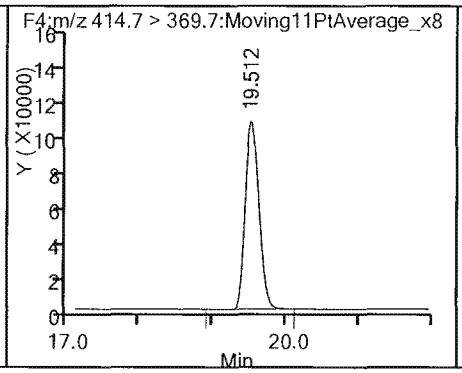
3 Perfluorohexanesulfonic acid (ND)



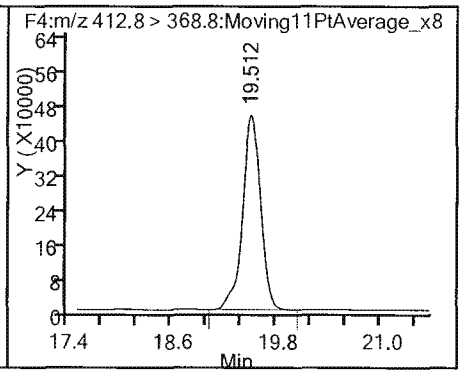
4 Perfluoroheptanoic acid



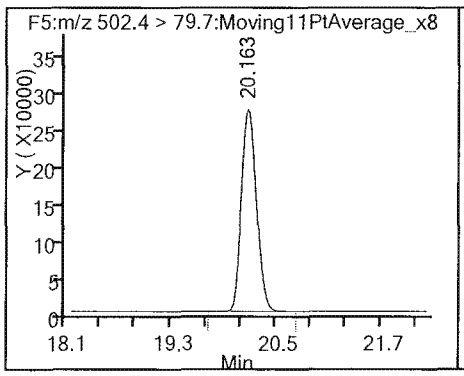
* 6 13C2-PFOA



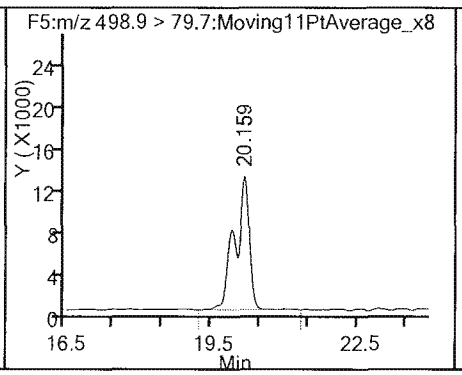
5 Perfluorooctanoic acid



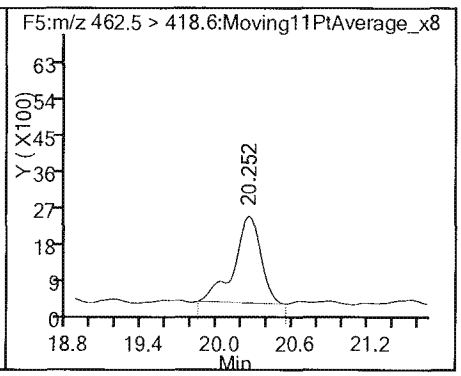
* 7 13C4 PFOS



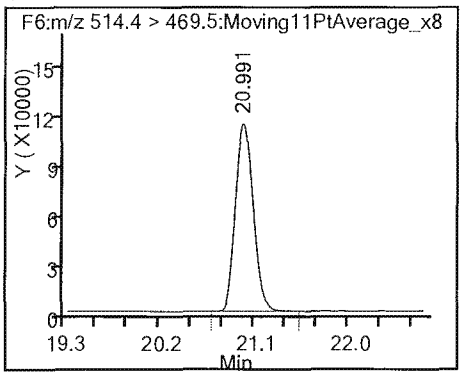
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID: Well 3 DL
Lab Sample ID: 320-11644-5 DL
Matrix: Water
Lab File ID: 23FEB15A4A_21.d
Analysis Method: 537
Date Collected: 02/11/2015 10:59
Extraction Method: 537
Date Extracted: 02/18/2015 09:18
Sample wt/vol: 258(mL)
Date Analyzed: 02/23/2015 18:23
Con. Extract Vol.: 1.00(mL)
Dilution Factor: 5
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
335-67-1	Perfluorooctanoic acid (PFOA)	0.27		0.097	0.046

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	109		70-130
STL00996	13C2 PFDA	104		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_21.d				
Lims ID:	320-11644-B-5-A	Lab Sample ID:	320-11644-5		
Client ID:	Well 3				
Sample Type:	Client				
Inject. Date:	23-Feb-2015 18:23:42	ALS Bottle#:	33	Worklist Smp#:	48
Injection Vol:	10.0 ul	Dil. Factor:	5.0000		
Sample Info:	320-11644-B-5-A 5x				
Misc. Info.:	Acquity BEH C18,1.7u, 3X150mm,T=35C				
Operator ID:	JRB	Instrument ID:	A4		
Method:	\\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m				
Limit Group:	LC 537 ICAL				
Last Update:	24-Feb-2015 07:01:18	Calib Date:	23-Feb-2015 12:58:26		
Integrator:	Picker				
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration		
Last ICal File:	\\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d				
Column 1 :	Atlantis d-C18 (2.10 mm)		Det: F1:MRM		
Process Host:	XAWRK027				

First Level Reviewer: strumj Date: 24-Feb-2015 07:04:18

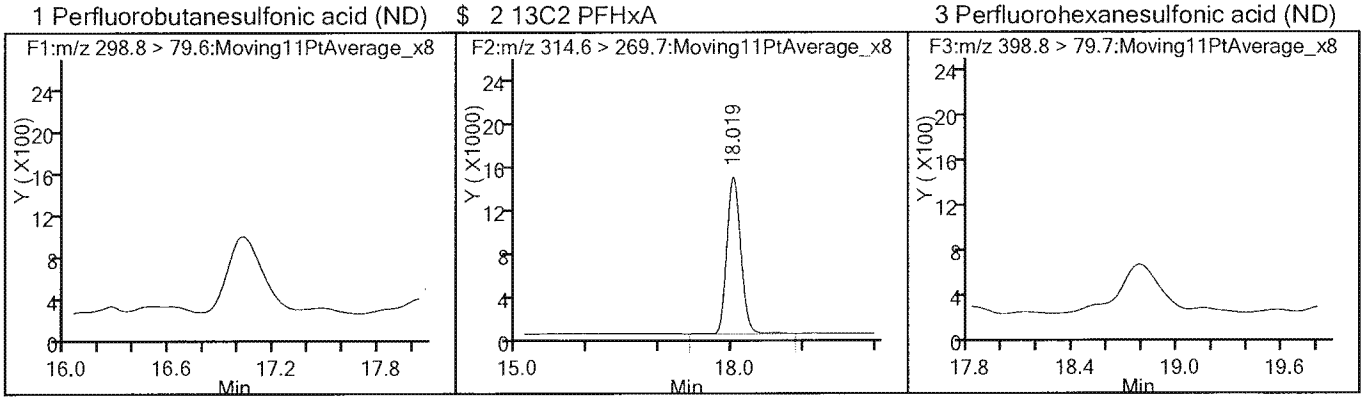
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
$ 2 13C2 PFHxA								
314.6 > 269.7	18.019	18.040	-0.021	1.000	200734	2.19	304	
* 6 13C2-PFOA								
414.7 > 369.7	19.507	19.532	-0.025		297978	2.00	209	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.507	19.533	-0.026	1.000	1425770	14.0	377	
* 7 13C4 PFOS								
502.4 > 79.7	20.150	20.189	-0.039		629199	5.74	432	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.154	20.189	-0.035	1.000	57629	0.6083	24.8	
$ 10 13C2 PFDA								
514.4 > 469.5	20.982	21.021	-0.039	1.000	232176	2.08	211	

Report Date: 24-Feb-2015 07:04:18 Chrom Revision: 2.2 15-Jan-2015 13:05:58

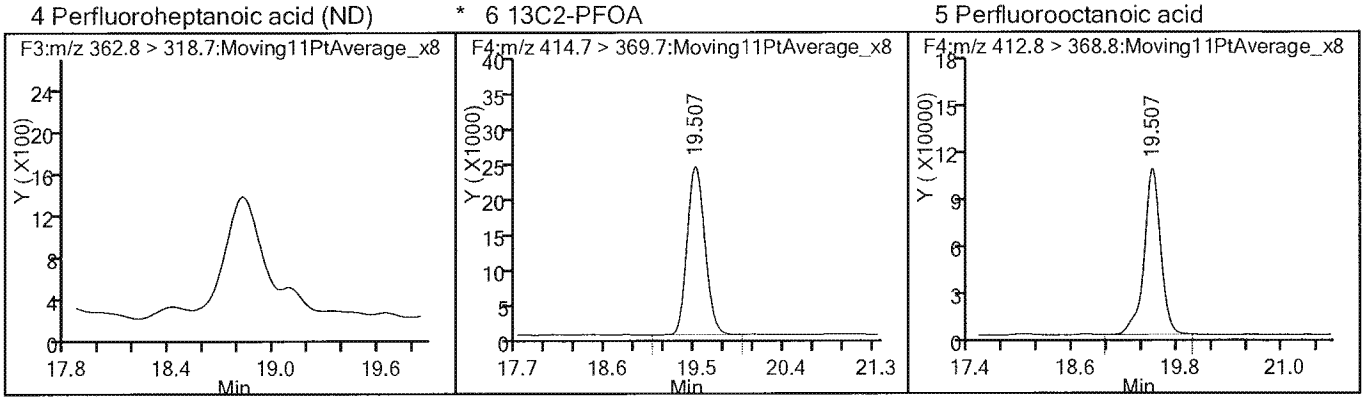
TestAmerica Sacramento

Data File:	\\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_21.d				
Injection Date:	23-Feb-2015 18:23:42	Instrument ID:	A4		
Lims ID:	320-11644-B-5-A	Lab Sample ID:	320-11644-5		
Client ID:	Well 3				
Operator ID:	JRB	ALS Bottle#:	33	Worklist Smp#:	48
Injection Vol:	10.0 ul	Dil. Factor:	5.0000		
Method:	537_A4	Limit Group:	LC 537 ICAL		

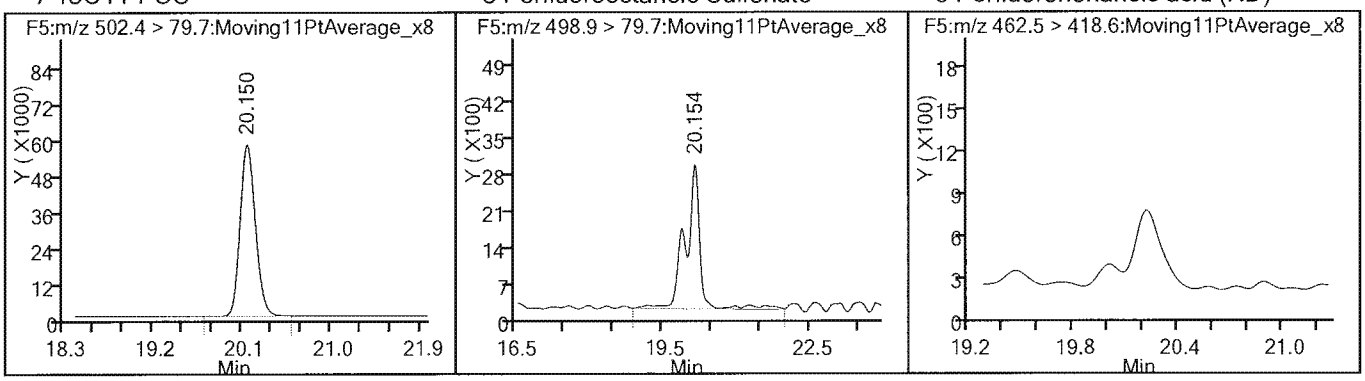
1 Perfluorobutanesulfonic acid (ND) $ 2 13C2 PFHxA 3 Perfluorohexanesulfonic acid (ND)



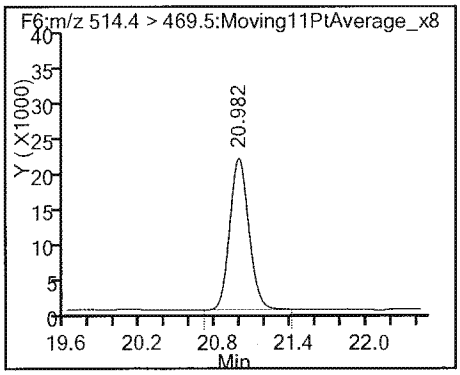
4 Perfluoroheptanoic acid (ND) * 6 13C2-PFOA 5 Perfluorooctanoic acid



* 7 13C4 PFOS 8 Perfluorooctanoic Sulfonate 9 Perfluorononanoic acid (ND)



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID: Well 10
Lab Sample ID: 320-11644-6
Matrix: Water
Lab File ID: 23FEB15A4A_58.d
Analysis Method: 537
Date Collected: 02/11/2015 11:30
Extraction Method: 537
Date Extracted: 02/18/2015 09:18
Sample wt/vol: 256.8(mL)
Date Analyzed: 02/24/2015 13:02
Con. Extract Vol.: 1.00(mL)
Dilution Factor: 1
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	ND		0.039	0.015
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.019	0.011
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	ND		0.029	0.012
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0053	J	0.0097	0.0045
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.088	0.046

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	114		70-130
STL00996	13C2 PFDA	116		70-130

Report Date: 25-Feb-2015 06:59:46 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_58.d
Lims ID: 320-11644-B-6-A Lab Sample ID: 320-11644-6
Client ID: Well 10
Sample Type: Client
Inject. Date: 24-Feb-2015 13:02:54 ALS Bottle#: 26 Worklist Smp#: 39
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 320-11644-B-6-A
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 25-Feb-2015 06:58:11 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK022

First Level Reviewer: strumj Date: 25-Feb-2015 06:59:46

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.004	17.040	-0.036	1.000	28385	0.2421	14.8	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.007	18.040	-0.033	1.000	1000608	11.4	1439	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.824	18.854	-0.030	1.000	73610	1.35	27.1	
* 6 13C2-PFOA								
414.7 > 369.7	19.512	19.532	-0.020		1430038	10.0	993	
5 Perfluorooctanoic acid								E
412.8 > 368.8	19.507	19.533	-0.026	1.000	6933161	70.7	1300	E
* 7 13C4 PFOS								
502.4 > 79.7	20.168	20.189	-0.021		3268261	28.7	2260	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.168	20.189	-0.021	1.000	252281	2.56	132	
9 Perfluorononanoic acid								
462.5 > 418.6	20.239	20.270	-0.031	1.000	24358	0.2887	6.9	
$ 10 13C2 PFDA								
514.4 > 469.5	20.991	21.021	-0.030	1.000	1242994	11.6	773	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

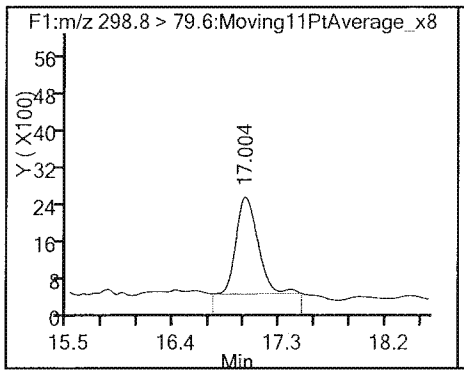
Report Date: 25-Feb-2015 06:59:46 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

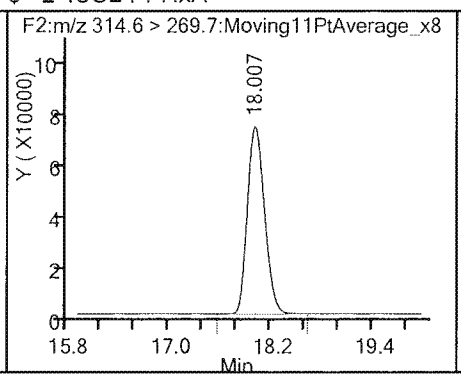
Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_58.d

Injection Date:	24-Feb-2015 13:02:54	Instrument ID:	A4		
Lims ID:	320-11644-B-6-A	Lab Sample ID:	320-11644-6		
Client ID:	Well 10				
Operator ID:	JRB	ALS Bottle#:	26	Worklist Smp#:	39
Injection Vol:	10.0 ul	Dil. Factor:	1.0000		
Method:	537_A4	Limit Group:	LC 537 ICAL		

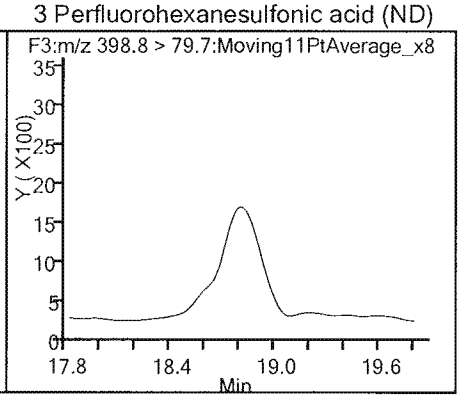
1 Perfluorobutanesulfonic acid



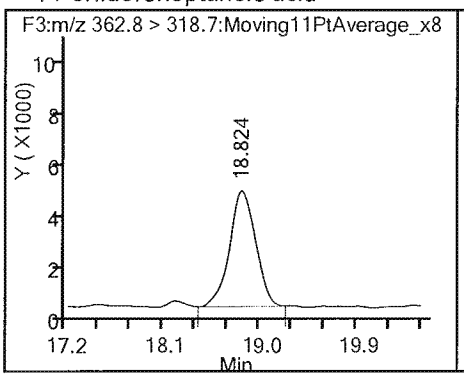
$ 2 13C2 PFHxA



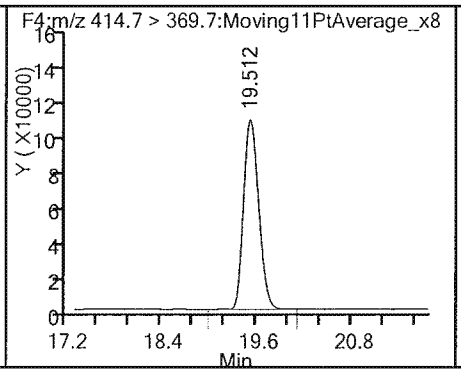
3 Perfluorohexanesulfonic acid (ND)



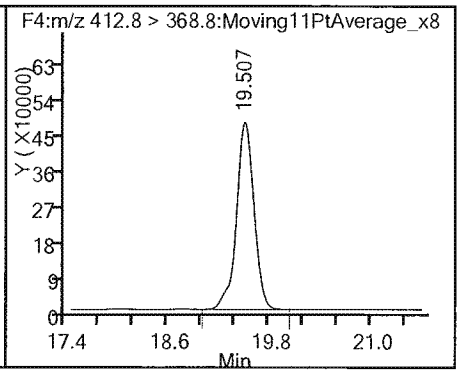
4 Perfluoroheptanoic acid



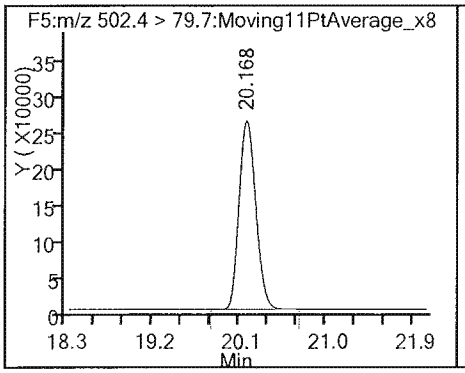
* 6 13C2-PFOA



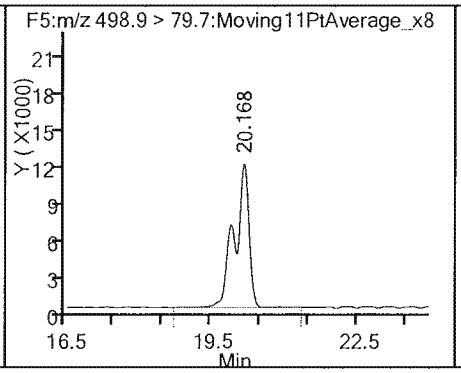
5 Perfluorooctanoic acid



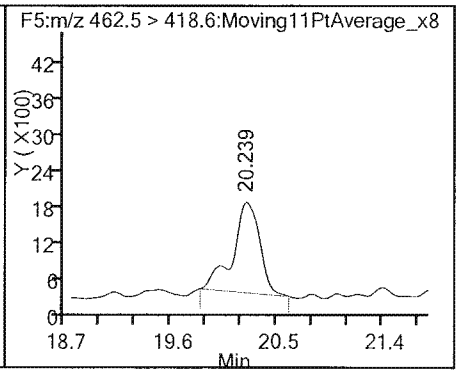
* 7 13C4 PFOS



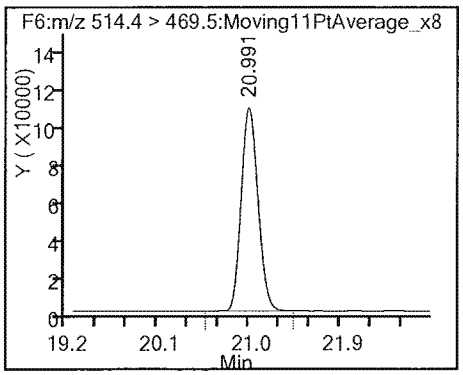
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID: Well 10 DL
Lab Sample ID: 320-11644-6 DL
Matrix: Water
Lab File ID: 23FEB15A4A_22.d
Analysis Method: 537
Date Collected: 02/11/2015 11:30
Extraction Method: 537
Date Extracted: 02/18/2015 09:18
Sample wt/vol: 256.8(mL)
Date Analyzed: 02/23/2015 18:53
Con. Extract Vol.: 1.00(mL)
Dilution Factor: 5
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
335-67-1	Perfluorooctanoic acid (PFOA)	0.29		0.097	0.046

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	109		70-130
STL00996	13C2 PFDA	106		70-130

Report Date: 24-Feb-2015 07:04:31 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_22.d				
Lims ID:	320-11644-B-6-A	Lab Sample ID:	320-11644-6		
Client ID:	Well 10				
Sample Type:	Client				
Inject. Date:	23-Feb-2015 18:53:16	ALS Bottle#:	34	Worklist Smp#:	49
Injection Vol:	10.0 ul	Dil. Factor:	5.0000		
Sample Info:	320-11644-B-6-A 5x				
Misc. Info.:	Acquity BEH C18,1.7u, 3X150mm,T=35C				
Operator ID:	JRB	Instrument ID:	A4		
Method:	\\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m				
Limit Group:	LC 537 ICAL				
Last Update:	24-Feb-2015 07:01:18	Calib Date:	23-Feb-2015 12:58:26		
Integrator:	Picker				
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration		
Last ICal File:	\\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d				
Column 1 :	Atlantis d-C18 (2.10 mm)		Det: F1:MRM		
Process Host:	XAWRK027				

First Level Reviewer: strumj Date: 24-Feb-2015 07:04:31

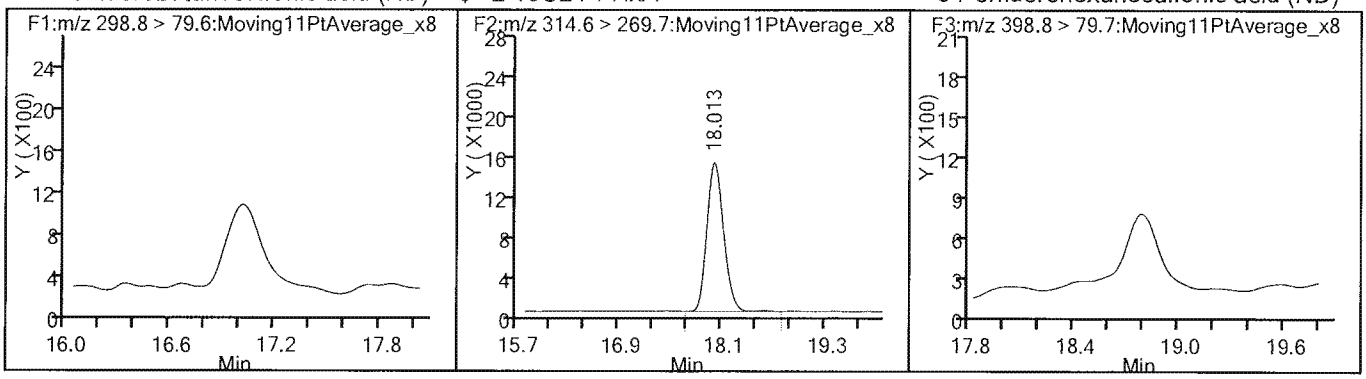
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
$ 2 13C2 PFHxA								
314.6 > 269.7	18.013	18.040	-0.027	1.000	204163	2.18	289	
* 6 13C2-PFOA								
414.7 > 369.7	19.502	19.532	-0.030		304105	2.00	229	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.502	19.533	-0.031	1.000	1531475	14.7	431	
* 7 13C4 PFOS								
502.4 > 79.7	20.151	20.189	-0.038		682381	5.74	504	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.137	20.189	-0.052	1.000	52306	0.5091	25.4	
$ 10 13C2 PFDA								
514.4 > 469.5	20.974	21.021	-0.047	1.000	241263	2.12	217	

Report Date: 24-Feb-2015 07:04:31 Chrom Revision: 2.2 15-Jan-2015 13:05:58

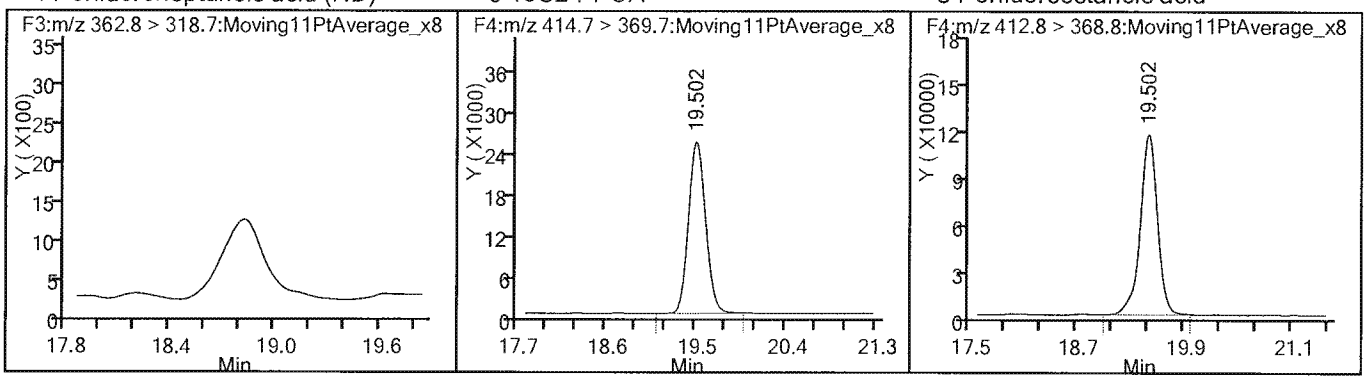
TestAmerica Sacramento

Data File:	\\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_22.d				
Injection Date:	23-Feb-2015 18:53:16	Instrument ID:	A4		
Lims ID:	320-11644-B-6-A	Lab Sample ID:	320-11644-6		
Client ID:	Well 10				
Operator ID:	JRB	ALS Bottle#:	34	Worklist Smp#:	49
Injection Vol:	10.0 ul	Dil. Factor:	5.0000		
Method:	537_A4	Limit Group:	LC 537 ICAL		

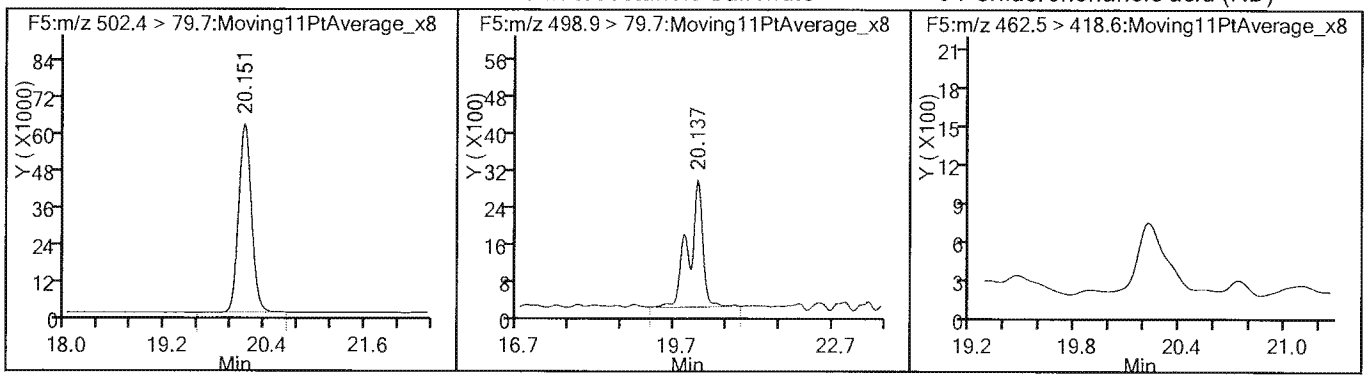
1 Perfluorobutanesulfonic acid (ND) $ 2 13C2 PFHxA 3 Perfluorohexanesulfonic acid (ND)



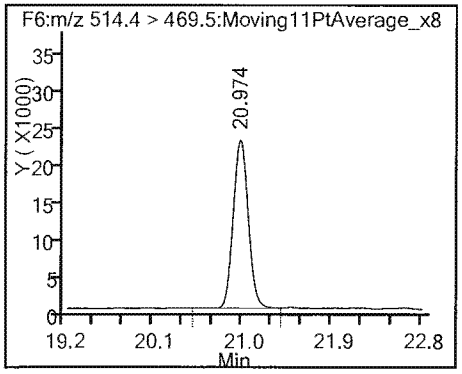
4 Perfluoroheptanoic acid (ND) * 6 13C2-PFOA 5 Perfluorooctanoic acid



* 7 13C4 PFOS 8 Perfluorooctanoic Sulfonate 9 Perfluorononanoic acid (ND)



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID: Well 6
Lab Sample ID: 320-11644-7
Matrix: Water
Lab File ID: 23FEB15A4A_23.d
Analysis Method: 537
Date Collected: 02/11/2015 11:29
Extraction Method: 537
Date Extracted: 02/18/2015 09:18
Sample wt/vol: 259.5(mL)
Date Analyzed: 02/23/2015 19:22
Con. Extract Vol.: 1.00(mL)
Dilution Factor: 10
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	ND		0.39	0.15
335-67-1	Perfluorooctanoic acid (PFOA)	0.74		0.19	0.091
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.19	0.11
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	ND		0.29	0.11
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.066	J	0.096	0.044
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.87	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	108		70-130
STL00996	13C2 PFDA	93		70-130

Report Date: 24-Feb-2015 07:04:41 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_23.d
Lims ID: 320-11644-B-7-A Lab Sample ID: 320-11644-7
Client ID: Well 6
Sample Type: Client
Inject. Date: 23-Feb-2015 19:22:50 ALS Bottle#: 35 Worklist Smp#: 50
Injection Vol: 10.0 ul Dil. Factor: 10.0000
Sample Info: 320-11644-B-7-A 10x
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:18 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 07:04:41

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.016	17.040	-0.024	1.000	135129	1.17	120	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.007	18.040	-0.033	1.000	105133	1.08	178	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.830	18.854	-0.024	1.000	103247	1.72	78.8	
* 6 13C2-PFOA								
414.7 > 369.7	19.507	19.532	-0.025		157812	1.00	116	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.502	19.533	-0.031	1.000	2065816	19.1	560	
* 7 13C4 PFOS								
502.4 > 79.7	20.151	20.189	-0.038		322821	2.87	269	
$ 10 13C2 PFDA								
514.4 > 469.5	20.983	21.021	-0.038	1.000	110654	0.9348	96.1	

Report Date: 24-Feb-2015 07:04:41 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_23.d

Injection Date: 23-Feb-2015 19:22:50 Instrument ID: A4

Lims ID: 320-11644-B-7-A Lab Sample ID: 320-11644-7

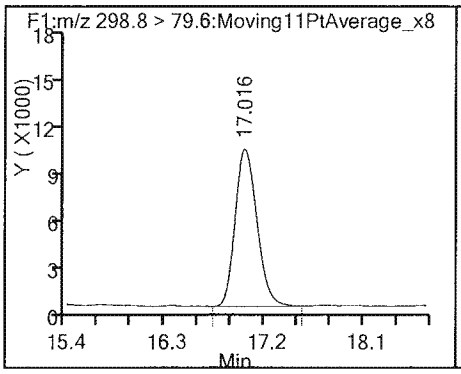
Client ID: Well 6

Operator ID: JRB ALS Bottle#: 35 Worklist Smp#: 50

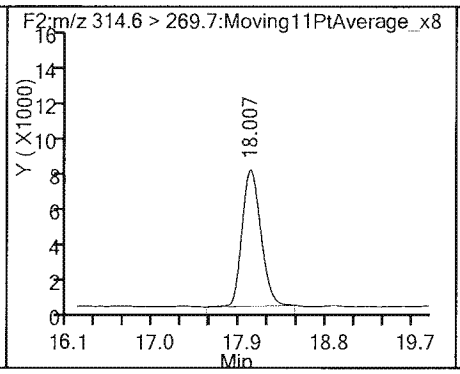
Injection Vol: 10.0 ul Dil. Factor: 10.0000

Method: 537_A4 Limit Group: LC 537 ICAL

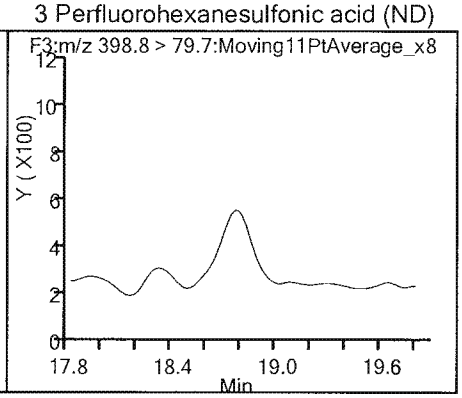
1 Perfluorobutanesulfonic acid



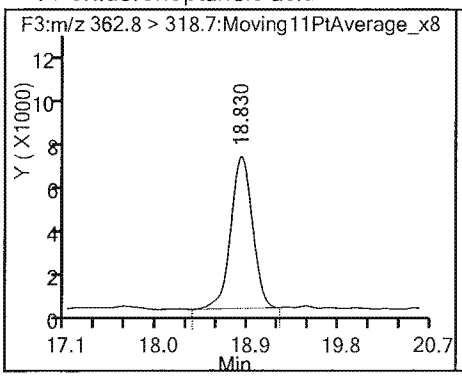
$ 2 13C2 PFHxA



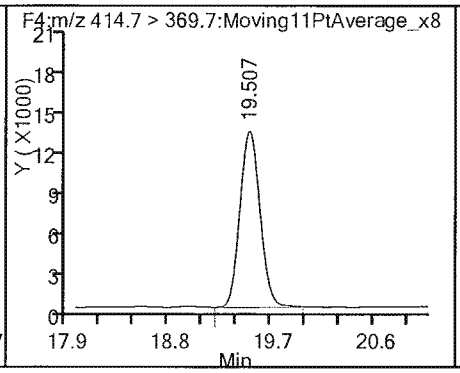
3 Perfluorohexanesulfonic acid (ND)



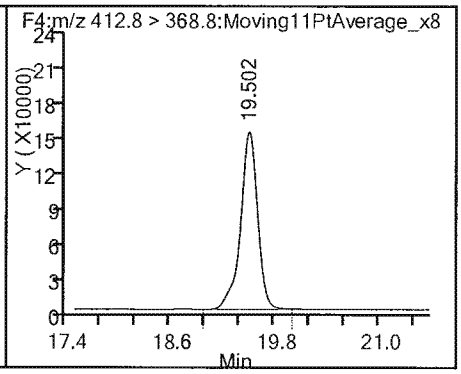
4 Perfluoroheptanoic acid



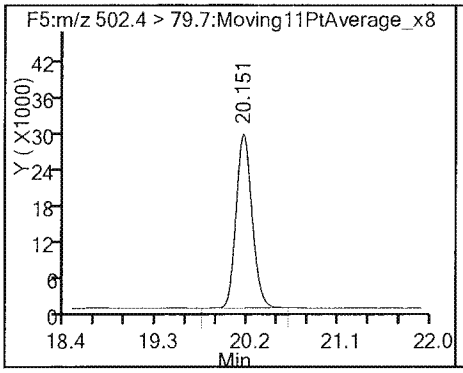
* 6 13C2-PFOA



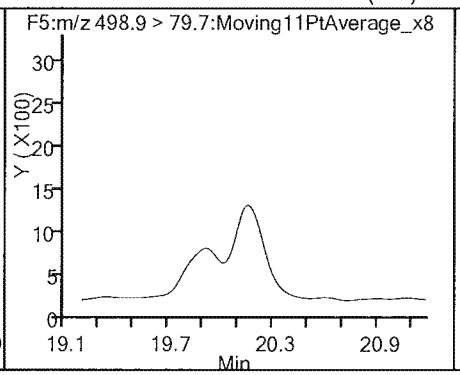
5 Perfluorooctanoic acid



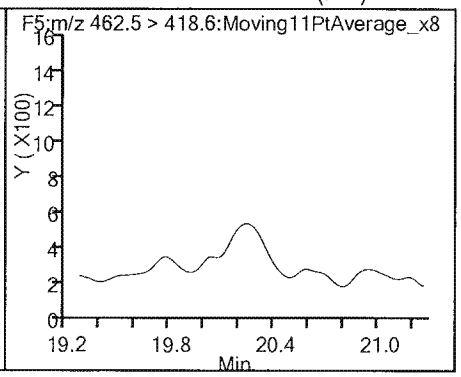
* 7 13C4 PFOS



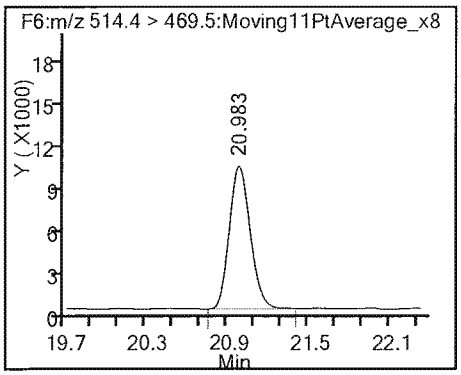
8 Perfluorooctanoic Sulfonate (ND)



9 Perfluorononanoic acid (ND)



$ 10 13C2 PFDA



FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1 Analy Batch No.: 66293

SDG No.:

Instrument ID: A4 GC Column: Atlantis d-C ID: 2.1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 10:30 Calibration End Date: 02/23/2015 12:58 Calibration ID: 11834

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	L1	23FEB15A4A_05.d
Level 2	L2	23FEB15A4A_06.d
Level 3	L3	23FEB15A4A_07.d
Level 4	L4	23FEB15A4A_08.d
Level 5	L5	23FEB15A4A_09.d
Level 6	L6	23FEB15A4A_10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanesulfonic acid (PFBS)	1.0308 0.9899	1.0372	1.0917	0.9985	1.0241	Lin2F		1.0287							0.9980		0.9600
Perfluorohexanesulfonic acid(PFHxS)	0.8812 1.0194	0.8773	1.0239	0.9897	0.9993	Lin2F		0.9651							0.9930		0.9600
Perfluoroheptanoic acid (PFHpA)	0.4164 0.3628	0.3913	0.3788	0.3760	0.3589	Lin2F		0.3807							0.9950		0.9600
Perfluorooctanoic acid (PFOA)	0.7089 0.7052	0.6718	0.6987	0.6342	0.6943	Lin2F		0.6855							0.9970		0.9600
Perfluorooctane Sulfonate (PFOS)	0.7956 0.8875	0.8319	0.9334	0.8562	0.8776	Lin2F		0.8637							0.9960		0.9600
Perfluorononanoic acid (PFNA)	0.6306 0.5597	0.6183	0.6067	0.5457	0.5795	Lin2F		0.5901							0.9950		0.9600
13C2 PFHxA	0.7022 0.5950	0.6255	0.6084	0.5783	0.5886	Ave		0.6163				7.3		20.0			
13C2 PFDA	0.8557 0.7375	0.7501	0.7183	0.7235	0.7153	Ave		0.7501				7.1		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

ED_001342_00001134-00222

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1 Analy Batch No.: 66293

SDG No.:

Instrument ID: A4 GC Column: Atlantis d-C ID: 2.1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 10:30 Calibration End Date: 02/23/2015 12:58 Calibration ID: 11834

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	L1	23FEB15A4A_05.d
Level 2	L2	23FEB15A4A_06.d
Level 3	L3	23FEB15A4A_07.d
Level 4	L4	23FEB15A4A_08.d
Level 5	L5	23FEB15A4A_09.d
Level 6	L6	23FEB15A4A_10.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perfluorobutanesulfonic acid (PFBS)	PFOS	Lin2F	968698 15439070	2735719	5363056	9574703	13747258	8.91 182	23.3	45.9	92.5	137
Perfluorohexanesulfonic acid(PFHxS)	PFOS	Lin2F	275864 5296490	770782	1675540	3161588	4468755	2.97 60.5	7.76	15.3	30.8	45.7
Perfluoroheptanoic acid (PFHpA)	PFOA	Lin2F	67645 1150143	181470	368819	702504	958482	0.978 19.9	2.56	5.04	10.2	15.0
Perfluorooctanoic acid (PFOA)	PFOA	Lin2F	233374 4530322	631353	1378884	2401668	3758142	1.98 40.4	5.18	10.2	20.6	30.5
Perfluorooctane Sulfonate (PFOS)	PFOS	Lin2F	332136 6148598	974588	2036849	3647014	5233131	3.96 80.7	10.4	20.4	41.1	60.9
Perfluorononanoic acid (PFNA)	PFOA	Lin2F	207139 3588025	579818	1194702	2061836	3129986	1.98 40.3	5.17	10.2	20.5	30.4
13C2 PFHxA	PFOA	Ave	1166082 945862	1133866	1175121	1063891	1044602	10.0 10.0	10.0	10.0	10.0	10.0
13C2 PFDA	PFOA	Ave	1421043 1172459	1359818	1387389	1330848	1269632	10.0 10.0	10.0	10.0	10.0	10.0

Curve Type Legend:
Ave = Average ISTD
Lin2F = Linear 1/conc^2 ISTD forced zero

ED_001342_00001134-00223

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_05.d
Lims ID: L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Feb-2015 10:30:36 ALS Bottle#: 17 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: L1
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:12 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 06:36:52

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.045	17.040	0.005	1.000	968698	8.93	1459	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.042	18.040	0.002	1.000	1166082	11.4	1915	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.813	18.810	0.003	1.000	275864	2.71	379	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.848	18.854	-0.006	1.000	67645	1.07	76.4	
* 6 13C2-PFOA								
414.7 > 369.7	19.533	19.532	0.001		1660664	10.0	1273	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.538	19.533	0.005	1.000	233374	2.05	73.0	
* 7 13C4 PFOS								
502.4 > 79.7	20.195	20.189	0.006		3024447	28.7	2910	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.195	20.189	0.006	1.000	332136	3.65	197	
9 Perfluorononanoic acid								
462.5 > 418.6	20.270	20.270	0.0	1.000	207139	2.11	134	
$ 10 13C2 PFDA								
514.4 > 469.5	21.027	21.021	0.006	1.000	1421043	11.4	1194	

Reagents:

LC537-L1_00009 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 07:01:12 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_05.d

Injection Date: 23-Feb-2015 10:30:36 Instrument ID: A4

Lims ID: L1

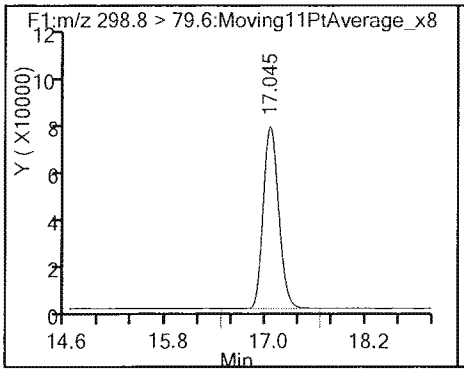
Client ID:

Operator ID: JRB ALS Bottle#: 17 Worklist Smp#: 3

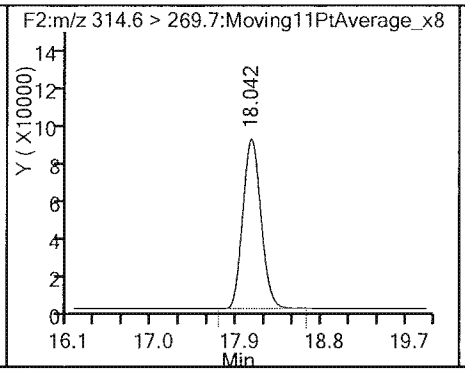
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

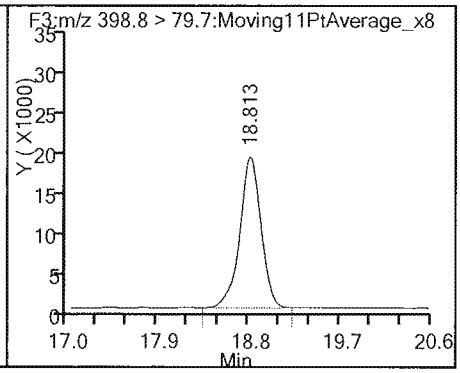
1 Perfluorobutanesulfonic acid



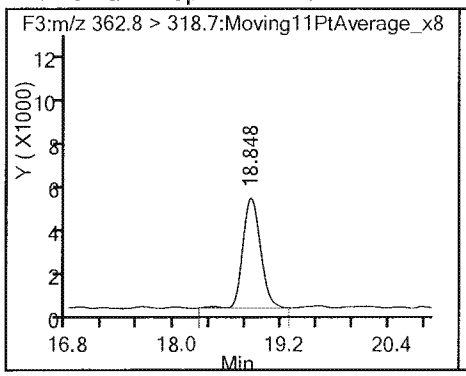
$ 2 13C2 PFHxA



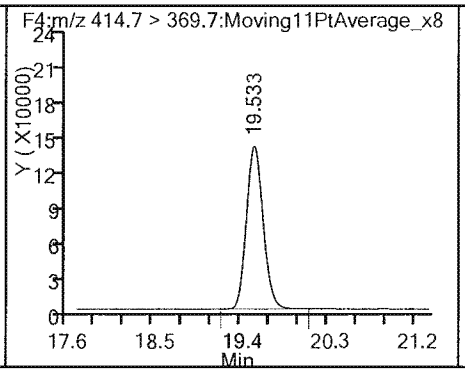
3 Perfluorohexanesulfonic acid



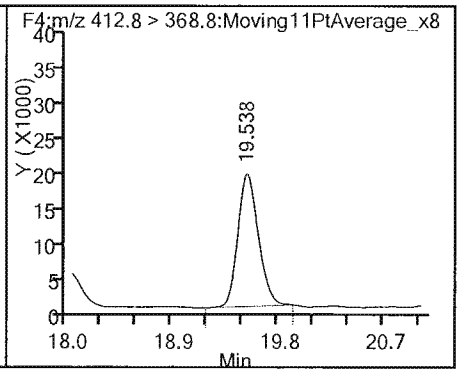
4 Perfluoroheptanoic acid



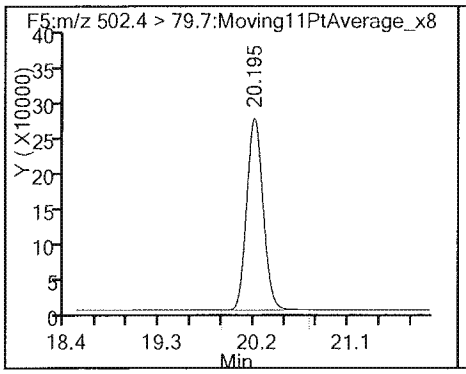
* 6 13C2-PFOA



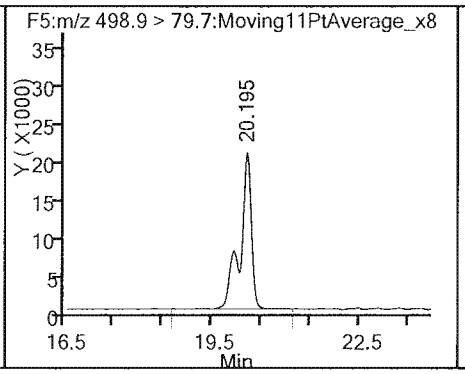
5 Perfluorooctanoic acid



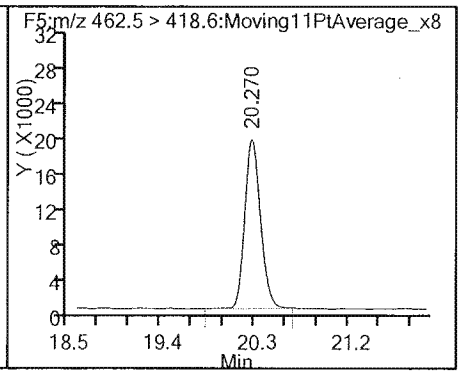
* 7 13C4 PFOS



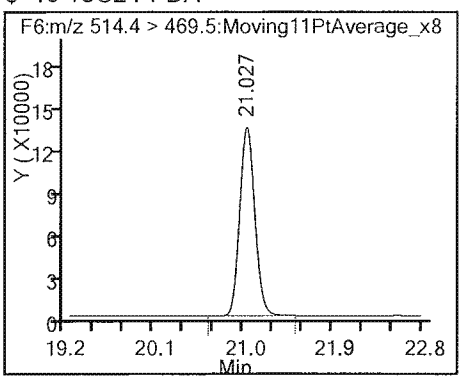
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



Report Date: 24-Feb-2015 07:01:13 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_06.d
Lims ID: L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Feb-2015 11:00:10 ALS Bottle#: 18 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: L2
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:13 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 06:34:51

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.039	17.040	-0.001	1.000	2735719	23.5	3459	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.042	18.040	0.002	1.000	1133866	10.1	1661	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.807	18.810	-0.003	1.000	770782	7.06	1045	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.859	18.854	0.005	1.000	181470	2.63	197	
* 6 13C2-PFOA								
414.7 > 369.7	19.532	19.532	0.0		1812736	10.0	1452	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.538	19.533	0.005	1.000	631353	5.08	176	
* 7 13C4 PFOS								
502.4 > 79.7	20.190	20.189	0.001		3245474	28.7	2894	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.190	20.189	0.001	1.000	974588	9.97	493	
9 Perfluorononanoic acid								
462.5 > 418.6	20.270	20.270	0.0	1.000	579818	5.42	293	
$ 10 13C2 PFDA								
514.4 > 469.5	21.022	21.021	0.001	1.000	1359818	10.0	1125	

Reagents:

LC537-L2_00008 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 07:01:13 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_06.d

Injection Date: 23-Feb-2015 11:00:10 Instrument ID: A4

Lims ID: L2

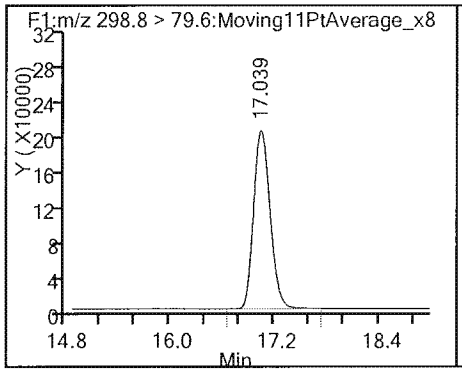
Client ID:

Operator ID: JRB ALS Bottle#: 18 Worklist Smp#: 4

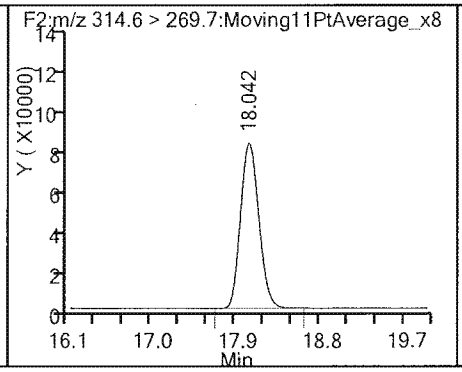
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

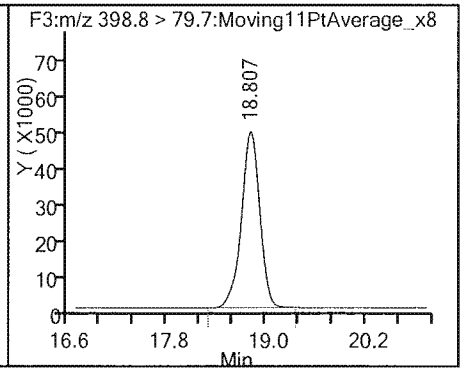
1 Perfluorobutanesulfonic acid



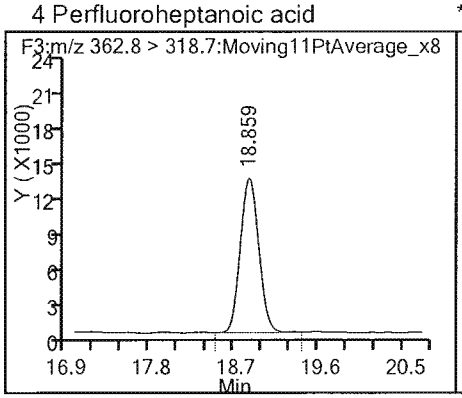
$ 2 13C2 PFHxA



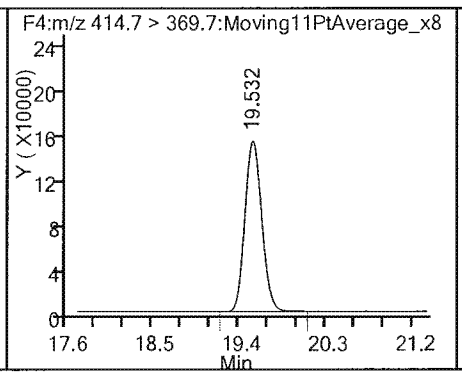
3 Perfluorohexanesulfonic acid



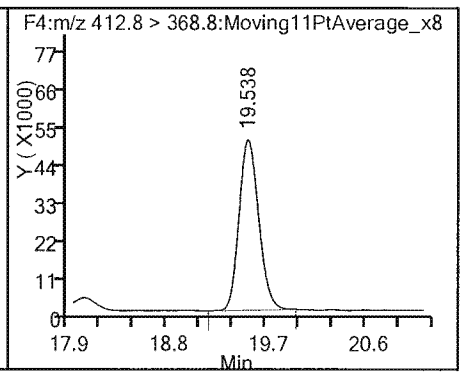
4 Perfluoroheptanoic acid



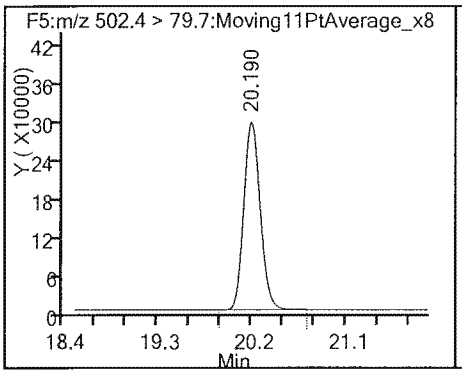
* 6 13C2-PFOA



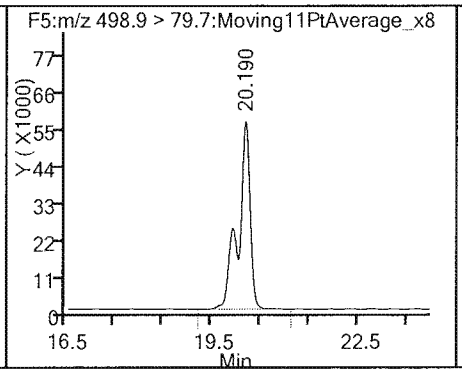
5 Perfluorooctanoic acid



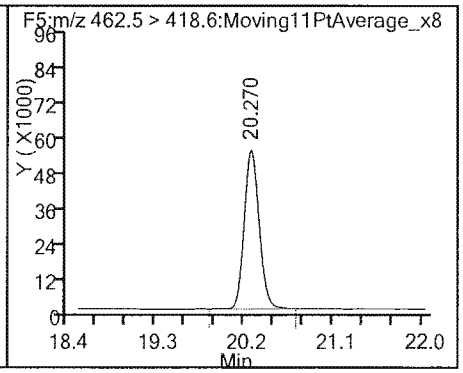
* 7 13C4 PFOS



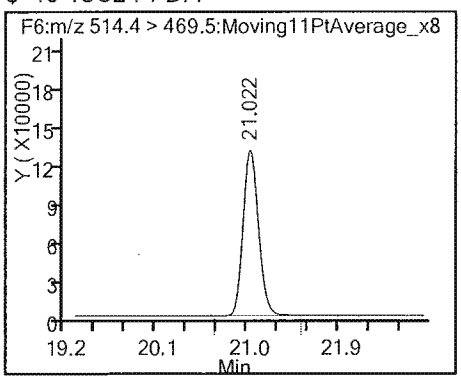
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_07.d
Lims ID: L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Feb-2015 11:29:44 ALS Bottle#: 19 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: L3
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:13 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.033	17.040	-0.007	1.000	5363056	48.7	6422	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.042	18.040	0.002	1.000	1175121	9.87	1389	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.813	18.810	0.003	1.000	1675540	16.2	1930	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.859	18.854	0.005	1.000	368819	5.02	368	
* 6 13C2-PFOA								
414.7 > 369.7	19.532	19.532	0.0		1931451	10.0	1757	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.532	19.533	-0.001	1.000	1378884	10.4	361	
* 7 13C4 PFOS								
502.4 > 79.7	20.190	20.189	0.001		3067664	28.7	2577	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.190	20.189	0.001	1.000	2036849	22.0	1044	
9 Perfluorononanoic acid								
462.5 > 418.6	20.270	20.270	0.0	1.000	1194702	10.5	551	
$ 10 13C2 PFDA								
514.4 > 469.5	21.022	21.021	0.001	1.000	1387389	9.58	1259	

Reagents:

LC537-L3_00008 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 07:01:13 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_07.d

Injection Date: 23-Feb-2015 11:29:44 Instrument ID: A4

Lims ID: L3

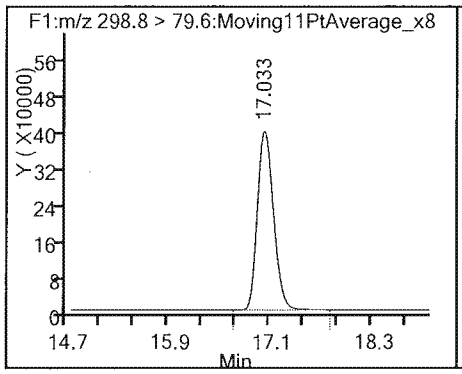
Client ID:

Operator ID: JRB ALS Bottle#: 19 Worklist Smp#: 5

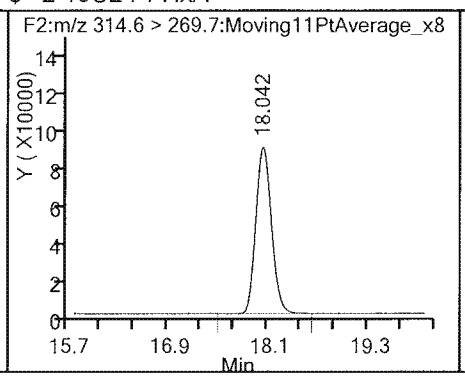
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

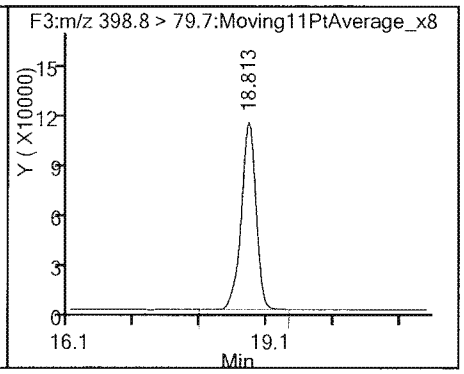
1 Perfluorobutanesulfonic acid



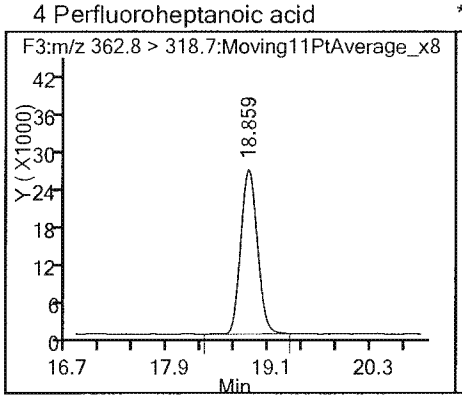
$ 2 13C2 PFHxA



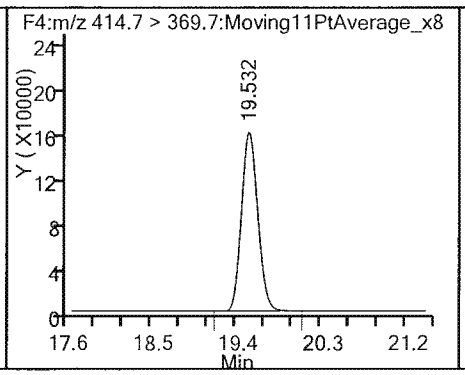
3 Perfluorohexanesulfonic acid



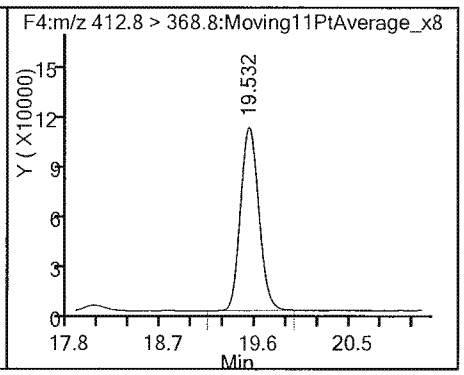
4 Perfluoroheptanoic acid



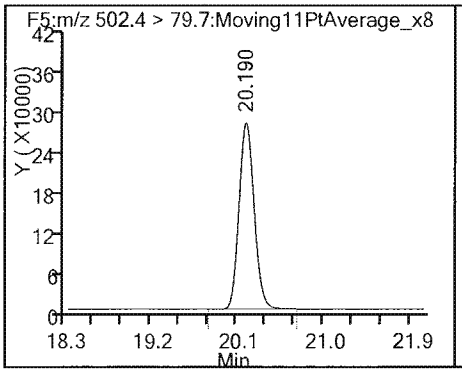
* 6 13C2-PFOA



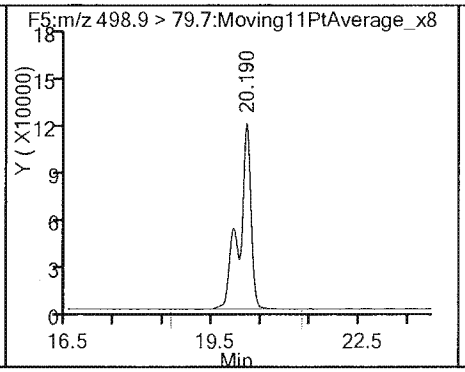
5 Perfluorooctanoic acid



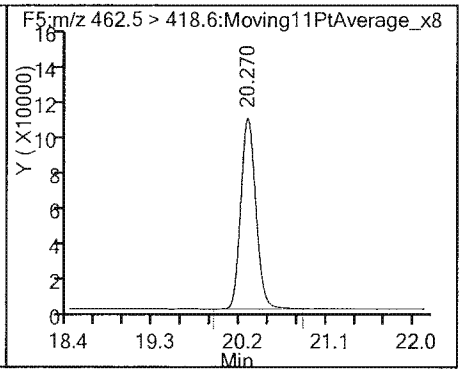
* 7 13C4 PFOS



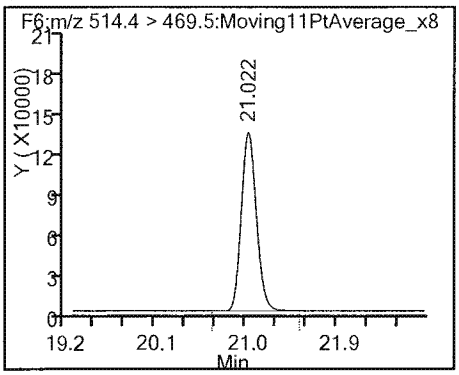
8 Perfluorooctanoic Sulfonate



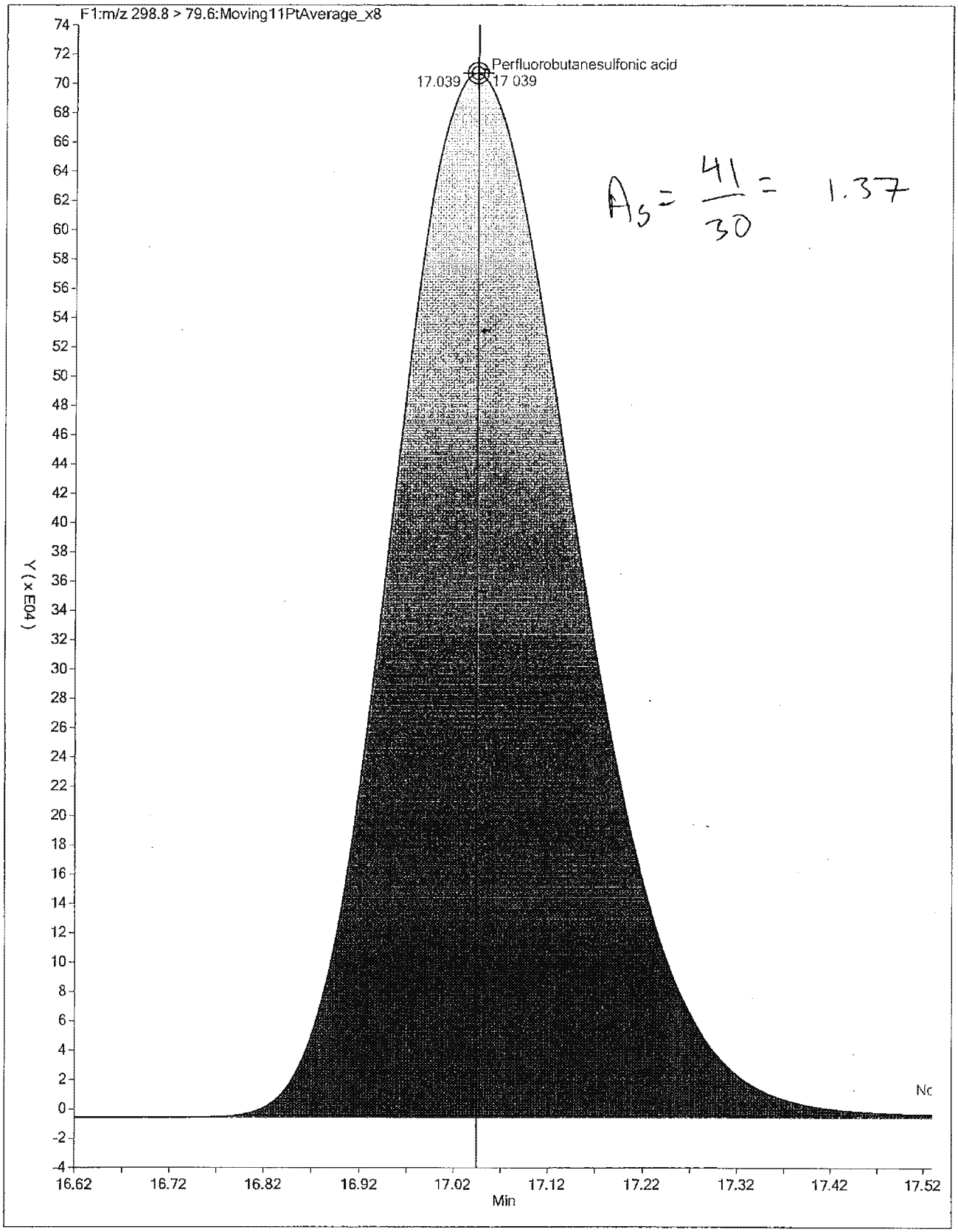
9 Perfluorononanoic acid



$ 10 13C2 PFDA



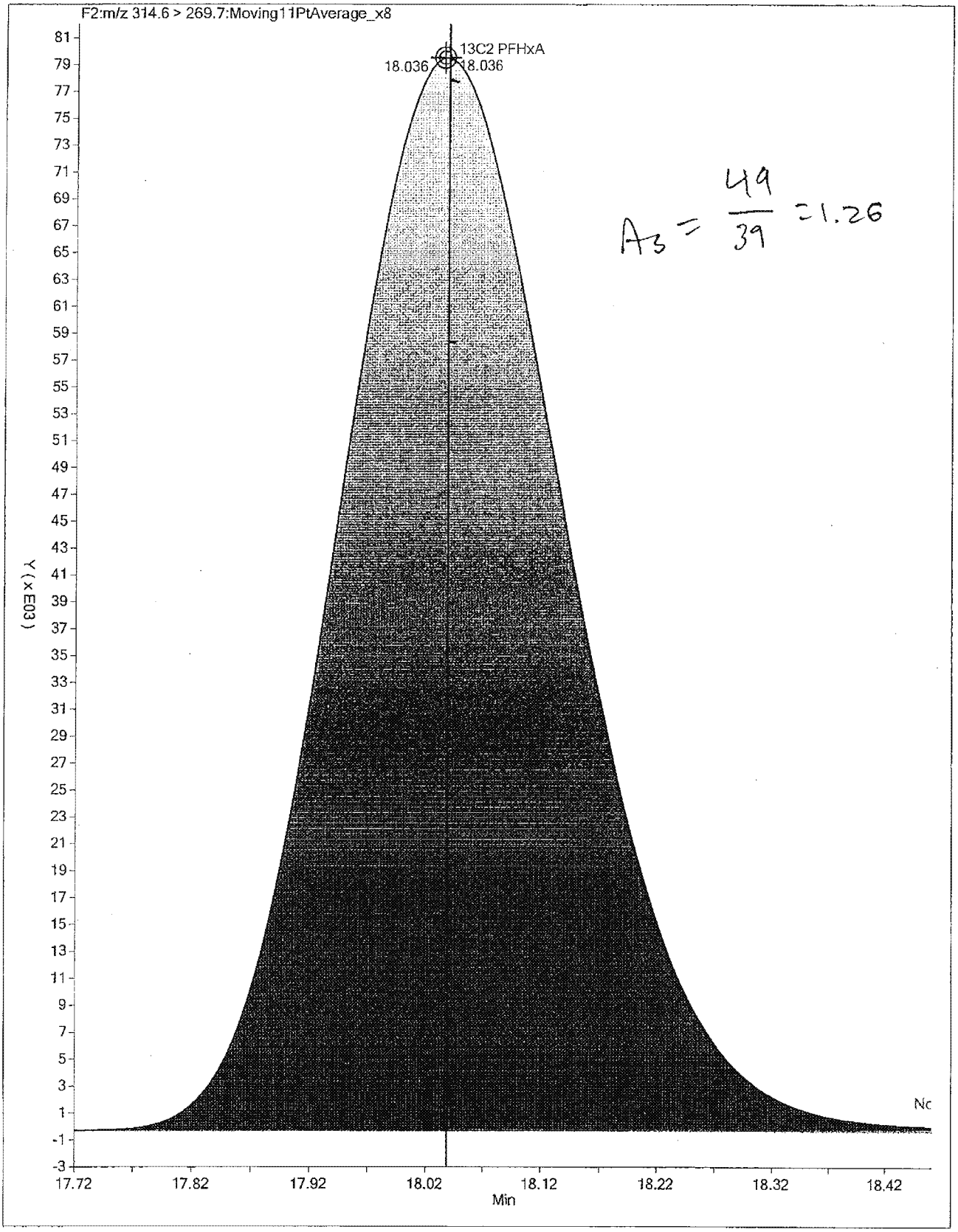
Chromatogram L4 F1:MRM



Chrom Printed: 2/25/2015 10:31:14 AM

ED_001342_00001134-00230

Chromatogram L4 F1:MRM



$A_3 = \frac{49}{39} = 1.26$

Chrom Printed: 2/25/2015 10:33:17 AM

ED_001342_00001134-00231

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_08.d
Lims ID: L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Feb-2015 11:59:18 ALS Bottle#: 20 Worklist Smp#: 6
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: L4
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:14 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.039	17.040	-0.001	1.000	9574703	89.8	8725	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.036	18.040	-0.004	1.000	1063891	9.38	1245	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.807	18.810	-0.003	1.000	3161588	31.6	3106	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.853	18.854	-0.001	1.000	702504	10.0	582	
* 6 13C2-PFOA								
414.7 > 369.7	19.533	19.532	0.001		1839534	10.0	1250	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.527	19.533	-0.006	1.000	2401668	19.0	485	
* 7 13C4 PFOS								
502.4 > 79.7	20.186	20.189	-0.003		2971803	28.7	2492	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.190	20.189	0.001	1.000	3647014	40.8	2341	
9 Perfluorononanoic acid								
462.5 > 418.6	20.270	20.270	0.0	1.000	2061836	19.0	1108	
$ 10 13C2 PFDA								
514.4 > 469.5	21.022	21.021	0.001	1.000	1330848	9.65	1227	

Reagents:

LC537-L4_00009 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 07:01:14 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_08.d

Injection Date: 23-Feb-2015 11:59:18 Instrument ID: A4

Lims ID: L4

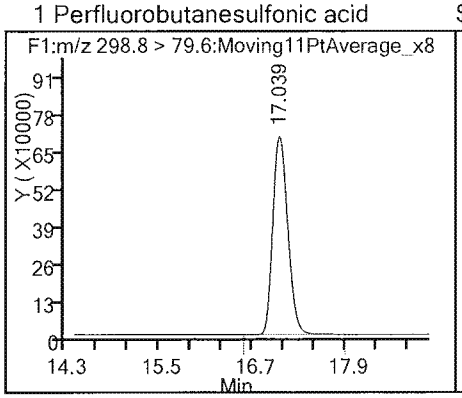
Client ID:

Operator ID: JRB ALS Bottle#: 20 Worklist Smp#: 6

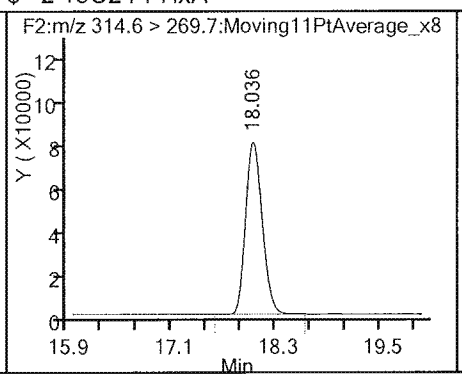
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

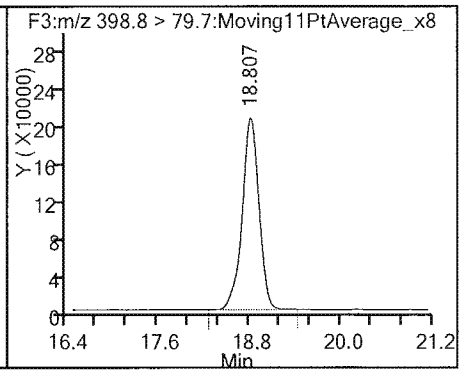
1 Perfluorobutanesulfonic acid



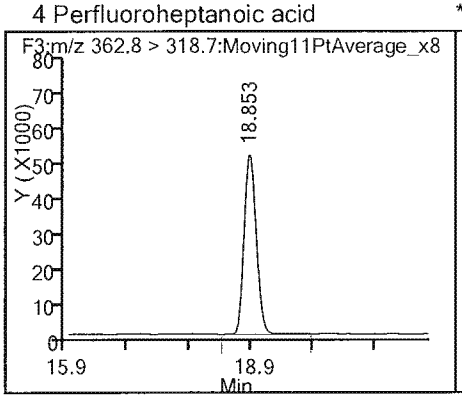
$ 2 13C2 PFHxA



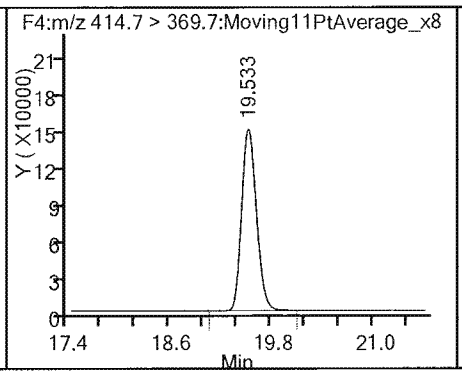
3 Perfluorohexanesulfonic acid



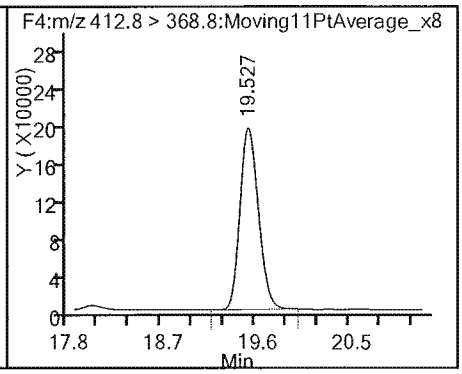
4 Perfluoroheptanoic acid



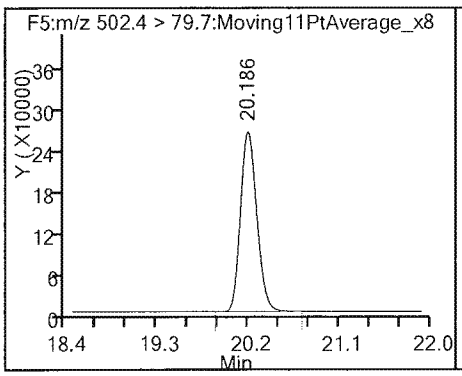
* 6 13C2-PFOA



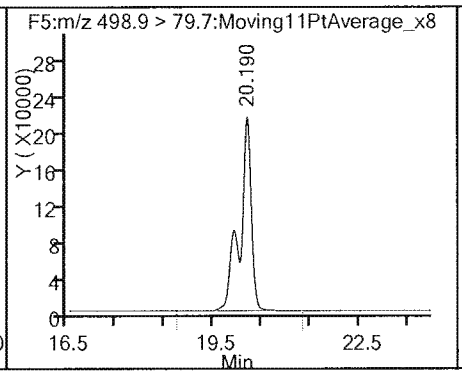
5 Perfluorooctanoic acid



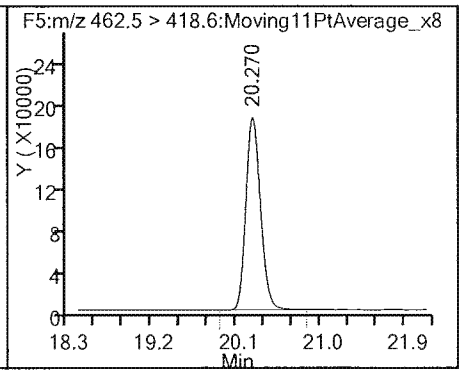
* 7 13C4 PFOS



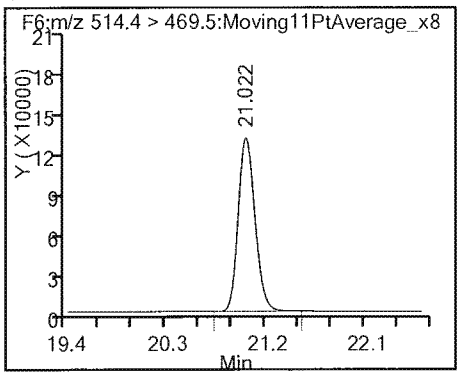
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_09.d
Lims ID: L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Feb-2015 12:28:52 ALS Bottle#: 21 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: L5
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:15 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.039	17.040	-0.001	1.000	13747258	136.5	11988	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.036	18.040	-0.004	1.000	1044602	9.55	1679	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.807	18.810	-0.003	1.000	4468755	47.3	3396	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.854	18.854	0.0	1.000	958482	14.2	881	
* 6 13C2-PFOA								
414.7 > 369.7	19.528	19.532	-0.004		1774855	10.0	1319	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.533	19.533	0.0	1.000	3758142	30.9	732	
* 7 13C4 PFOS								
502.4 > 79.7	20.186	20.189	-0.003		2808098	28.7	2038	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.186	20.189	-0.003	1.000	5233131	61.9	2789	
9 Perfluorononanoic acid								
462.5 > 418.6	20.270	20.270	0.0	1.000	3129986	29.9	1362	
$ 10 13C2 PFDA								
514.4 > 469.5	21.018	21.021	-0.003	1.000	1269632	9.54	1077	

Reagents:

LC537-L5_00008 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 07:01:15 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_09.d

Injection Date: 23-Feb-2015 12:28:52 Instrument ID: A4

Lims ID: L5

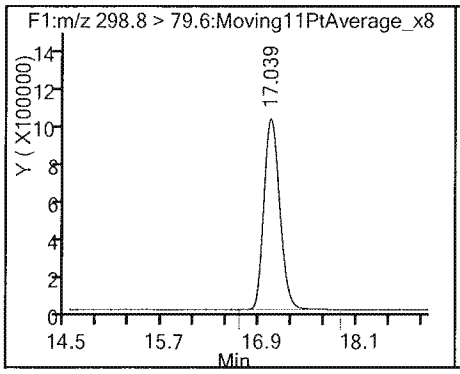
Client ID:

Operator ID: JRB ALS Bottle#: 21 Worklist Smp#: 7

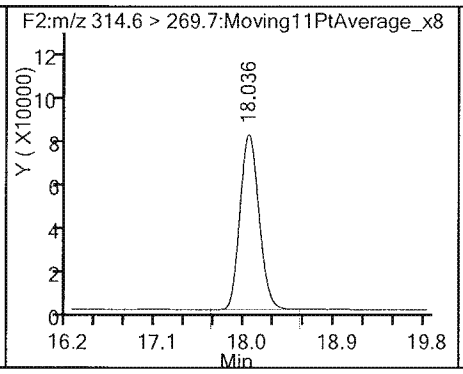
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

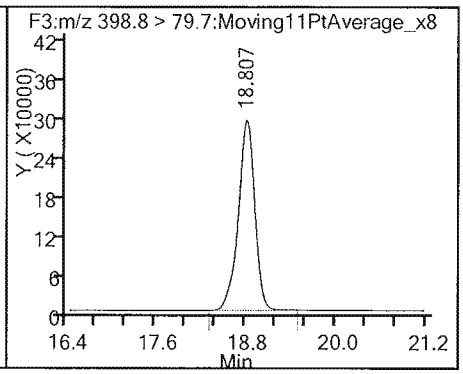
1 Perfluorobutanesulfonic acid



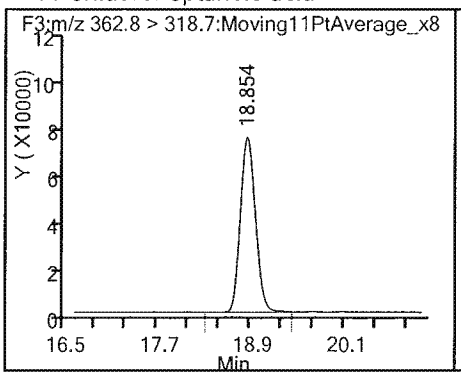
$ 2 13C2 PFHxA



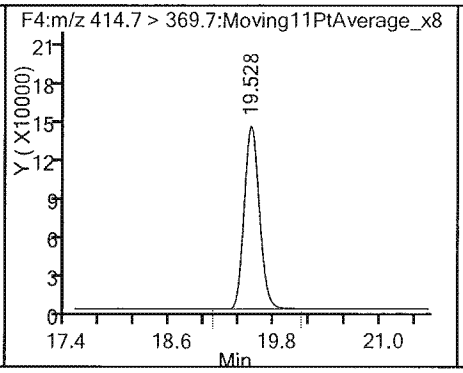
3 Perfluorohexanesulfonic acid



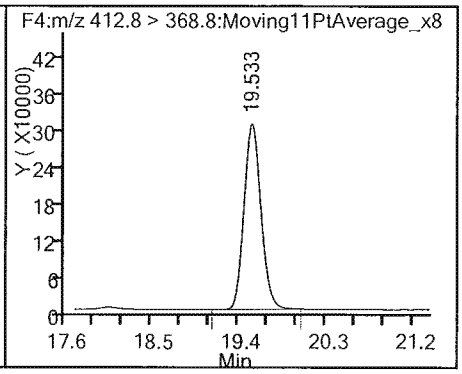
4 Perfluoroheptanoic acid



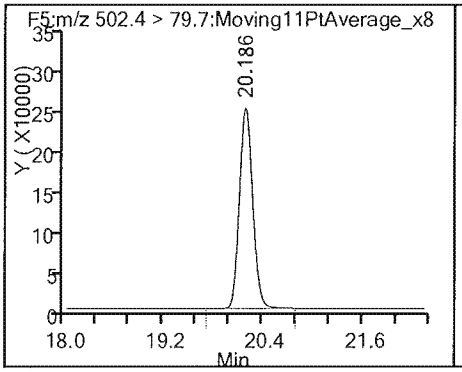
* 6 13C2-PFOA



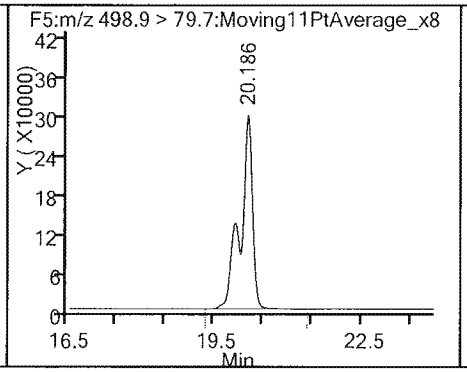
5 Perfluorooctanoic acid



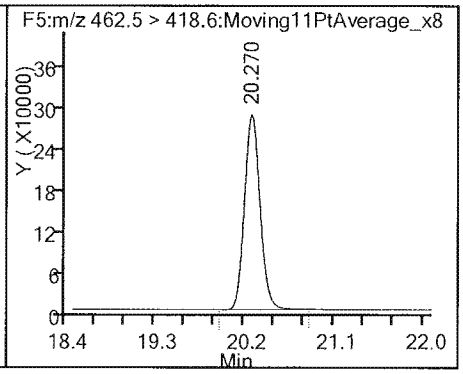
* 7 13C4 PFOS



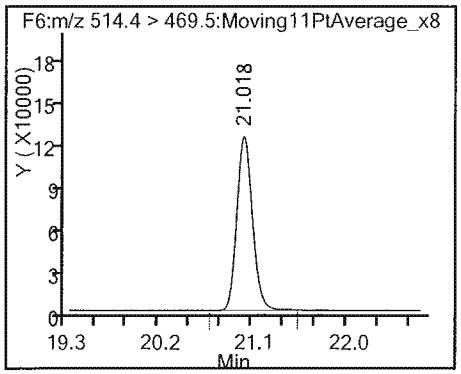
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d
Lims ID: L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Feb-2015 12:58:26 ALS Bottle#: 22 Worklist Smp#: 8
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: L6
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:16 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.045	17.040	0.005	1.000	15439070	174.8	16961	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.042	18.040	0.002	1.000	945862	9.65	1717	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.813	18.810	0.003	1.000	5296490	63.9	3727	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.853	18.854	-0.001	1.000	1150143	19.0	1036	
* 6 13C2-PFOA								
414.7 > 369.7	19.533	19.532	0.001		1589760	10.0	1282	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.533	19.533	0.0	1.000	4530322	41.6	839	
* 7 13C4 PFOS								
502.4 > 79.7	20.186	20.189	-0.003		2462354	28.7	2049	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.186	20.189	-0.003	1.000	6148598	82.9	3402	
9 Perfluorononanoic acid								
462.5 > 418.6	20.270	20.270	0.0	1.000	3588025	38.2	1665	
$ 10 13C2 PFDA								
514.4 > 469.5	21.018	21.021	-0.003	1.000	1172459	9.83	1037	

Reagents:

LC537-L6_00008 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 07:01:16 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Injection Date: 23-Feb-2015 12:58:26 Instrument ID: A4

Lims ID: L6

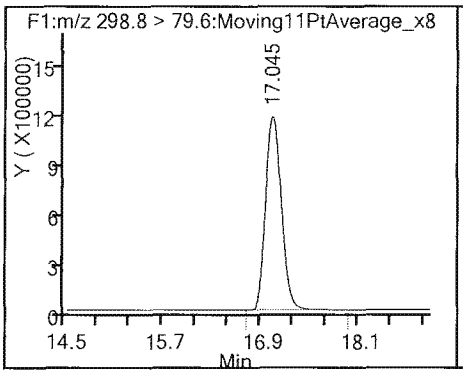
Client ID:

Operator ID: JRB ALS Bottle#: 22 Worklist Smp#: 8

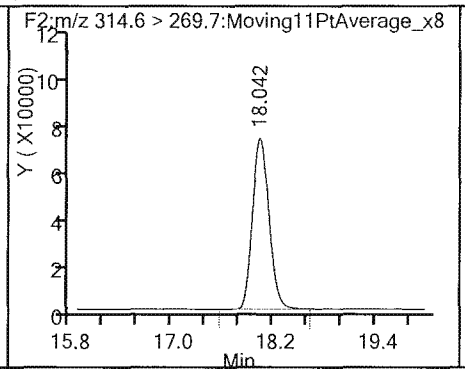
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

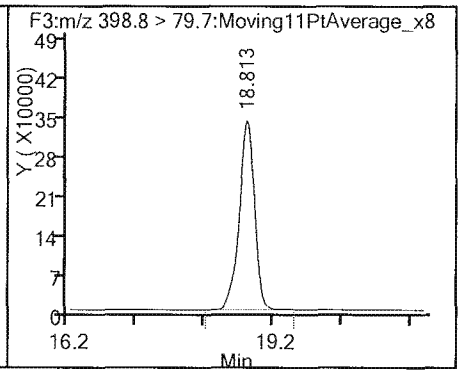
1 Perfluorobutanesulfonic acid



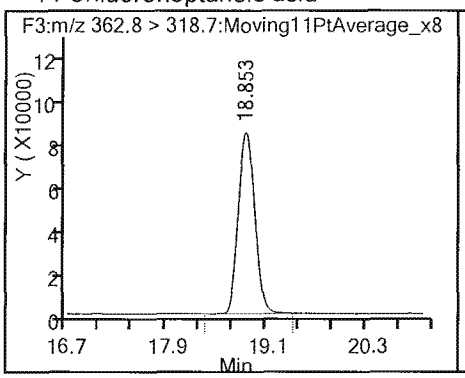
$ 2 13C2 PFHxA



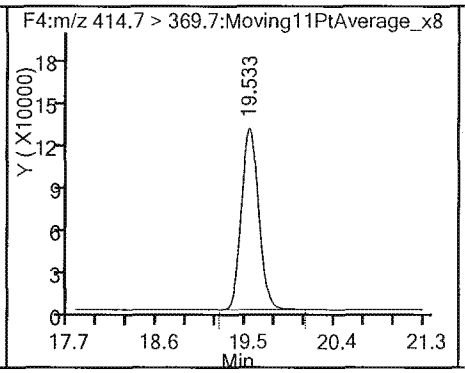
3 Perfluorohexanesulfonic acid



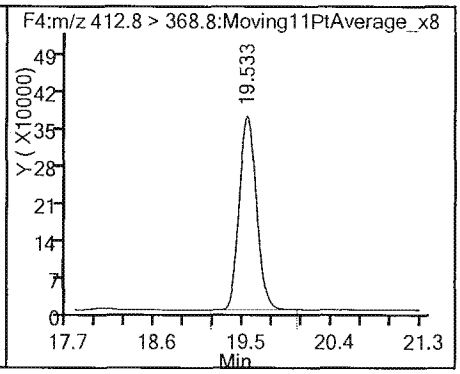
4 Perfluoroheptanoic acid



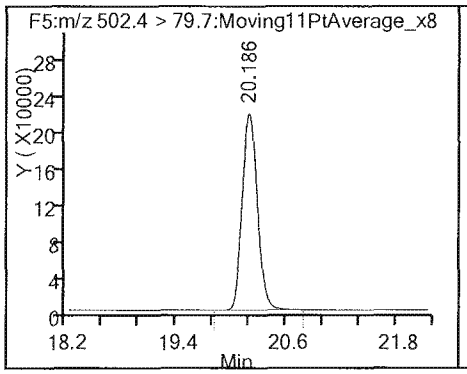
* 6 13C2-PFOA



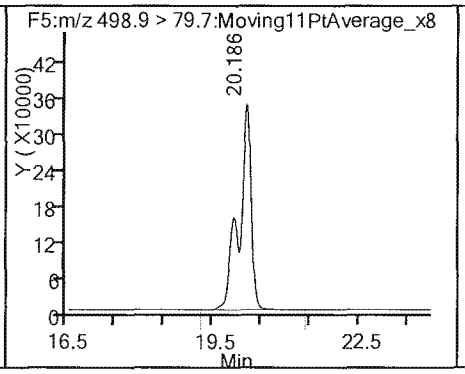
5 Perfluorooctanoic acid



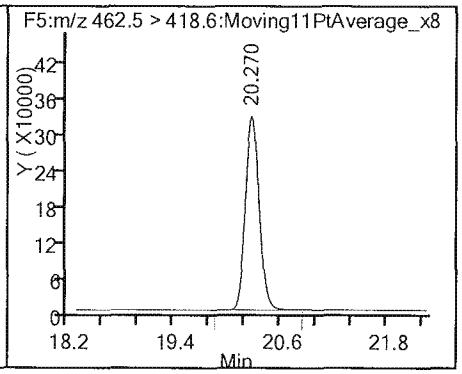
* 7 13C4 PFOS



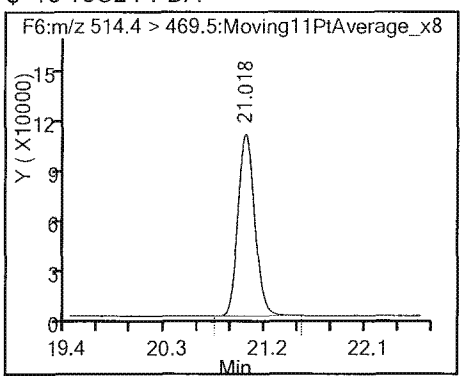
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Lab Sample ID: ICV 320-66293/10 Calibration Date: 02/23/2015 13:57

Instrument ID: A4 Calib Start Date: 02/23/2015 10:30

GC Column: Atlantis d-C18 ID: 2.10(mm) Calib End Date: 02/23/2015 12:58

Lab File ID: 23FEB15A4A_12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanesulfonic acid (PFBS)	Lin2F		1.162		105	92.5	13.0	30.0
Perfluorohexanesulfonic acid(PFHxS)	Lin2F		1.125		35.9	30.8	16.6	30.0
Perfluoroheptanoic acid (PFHpA)	Lin2F		0.4043		10.8	10.2	6.2	30.0
Perfluorooctanoic acid (PFOA)	Lin2F		0.7600		22.8	20.6	10.9	30.0
Perfluorooctane Sulfonate (PFOS)	Lin2F		0.998		47.5	41.1	15.6	30.0
Perfluorononanoic acid (PFNA)	Lin2F		0.6192		21.6	20.5	4.9	30.0
13C2 PFHxA	Ave	0.6163	0.5636		9.14	10.0	-8.6	30.0
13C2 PFDA	Ave	0.7501	0.7517		10.0	10.0	0.2	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_12.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 23-Feb-2015 13:57:36 ALS Bottle#: 24 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:17 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.033	17.040	-0.007	1.000	9697038	104.5	9906	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.031	18.040	-0.009	1.000	945701	9.14	1827	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.807	18.810	-0.003	1.000	3127512	35.9	3450	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.842	18.854	-0.012	1.000	689045	10.8	621	
* 6 13C2-PFOA								
414.7 > 369.7	19.527	19.532	-0.005		1677886	10.0	1206	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.527	19.533	-0.006	1.000	2625139	22.8	609	
* 7 13C4 PFOS								
502.4 > 79.7	20.185	20.189	-0.004		2585997	28.7	2871	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.185	20.189	-0.004	1.000	3699465	47.5	1926	
9 Perfluorononanoic acid								
462.5 > 418.6	20.270	20.270	0.0	1.000	2134067	21.6	984	
$ 10 13C2 PFDA								
514.4 > 469.5	21.013	21.021	-0.008	1.000	1261310	10.0	1033	

Reagents:

LC537-ICV_00008 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 07:01:17 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_12.d

Injection Date: 23-Feb-2015 13:57:36 Instrument ID: A4

Lims ID: ICV

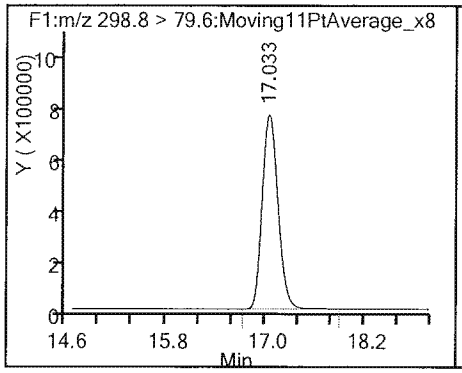
Client ID:

Operator ID: JRB ALS Bottle#: 24 Worklist Smp#: 10

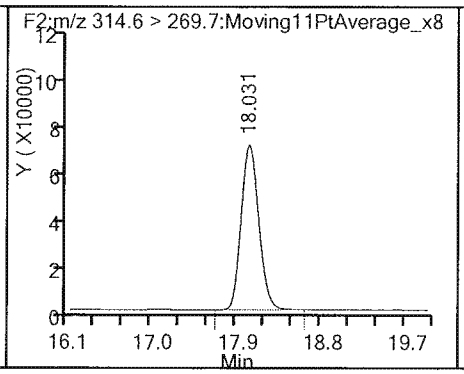
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

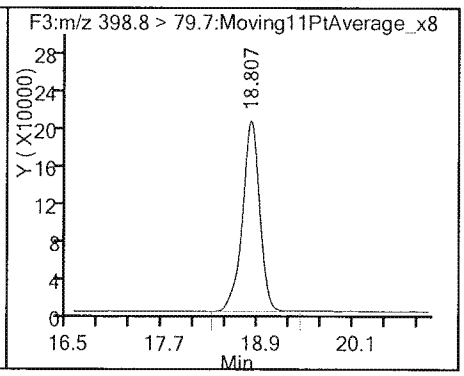
1 Perfluorobutanesulfonic acid



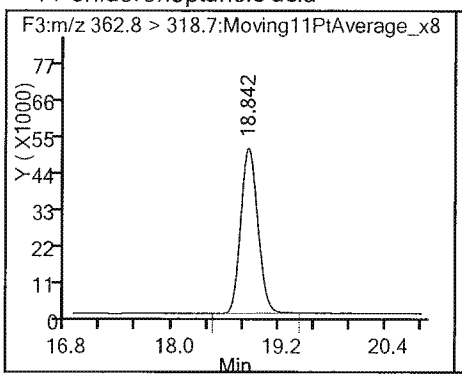
$ 2 13C2 PFHxA



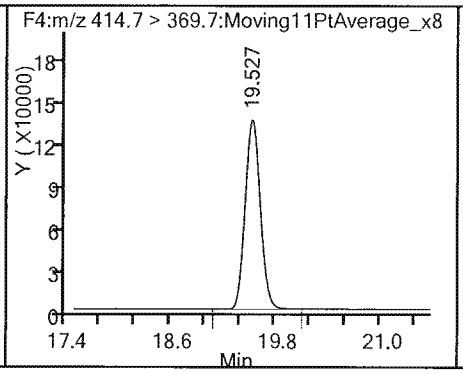
3 Perfluorohexanesulfonic acid



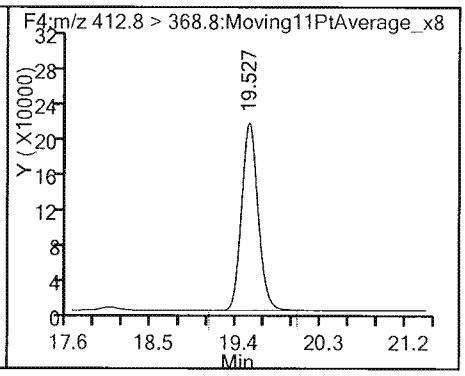
4 Perfluoroheptanoic acid



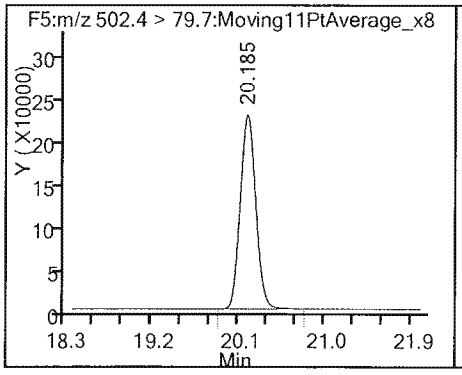
* 6 13C2-PFOA



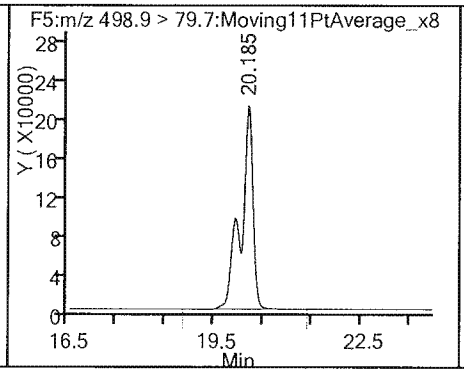
5 Perfluorooctanoic acid



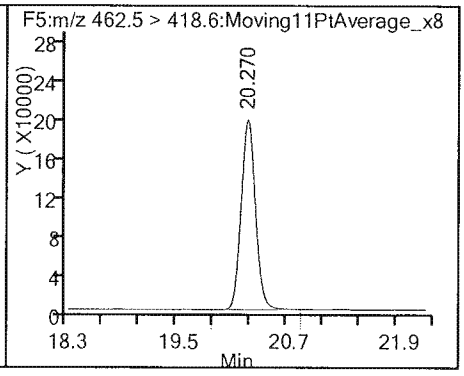
* 7 13C4 PFOS



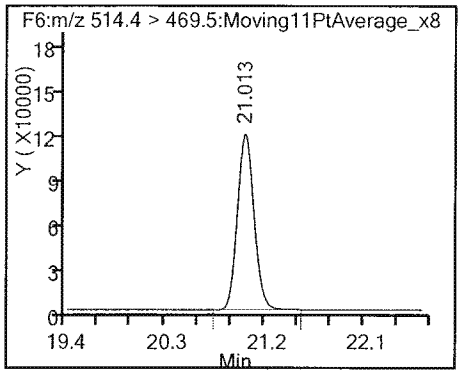
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Lab Sample ID: CCVL 320-66293/11 Calibration Date: 02/23/2015 14:27

Instrument ID: A4 Calib Start Date: 02/23/2015 10:30

GC Column: Atlantis d-C18 ID: 2.10(mm) Calib End Date: 02/23/2015 12:58

Lab File ID: 23FEB15A4A_13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanesulfonic acid (PFBS)	Lin2F		1.029		23.3	23.3	0.0	50.0
Perfluorohexanesulfonic acid(PFHxS)	Lin2F		0.9259		7.45	7.76	-4.1	50.0
Perfluoroheptanoic acid (PFHpA)	Lin2F		0.3907		2.63	2.56	2.6	50.0
Perfluorooctanoic acid (PFOA)	Lin2F		0.7141		5.40	5.18	4.2	50.0
Perfluorooctane Sulfonate (PFOS)	Lin2F		0.8374		10.0	10.4	-3.0	50.0
Perfluorononanoic acid (PFNA)	Lin2F		0.6175		5.41	5.17	4.6	50.0
13C2 PFHxA	Ave	0.6163	0.5893		9.56	10.0	-4.4	30.0
13C2 PFDA	Ave	0.7501	0.7183		9.58	10.0	-4.2	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_13.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 23-Feb-2015 14:27:11 ALS Bottle#: 18 Worklist Smp#: 11
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:18 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.039	17.040	-0.001	1.000	2438411	23.3	4830	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.036	18.040	-0.004	1.000	954862	9.56	1348	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.807	18.810	-0.003	1.000	730778	7.45	1104	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.853	18.854	-0.001	1.000	161934	2.63	182	
* 6 13C2-PFOA								
414.7 > 369.7	19.528	19.532	-0.004		1620353	10.0	1182	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.528	19.533	-0.005	1.000	599938	5.40	155	
* 7 13C4 PFOS								
502.4 > 79.7	20.186	20.189	-0.003		2915417	28.7	2335	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.186	20.189	-0.003	1.000	881306	10.0	473	
9 Perfluorononanoic acid								
462.5 > 418.6	20.270	20.270	0.0	1.000	517591	5.41	312	
$ 10 13C2 PFDA								
514.4 > 469.5	21.018	21.021	-0.003	1.000	1163916	9.58	1162	

Reagents:

LC537-L2_00008 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 07:01:18 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_13.d

Injection Date: 23-Feb-2015 14:27:11 Instrument ID: A4

Lims ID: CCVL

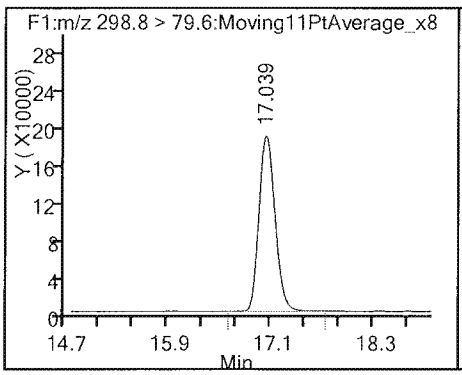
Client ID:

Operator ID: JRB ALS Bottle#: 18 Worklist Smp#: 11

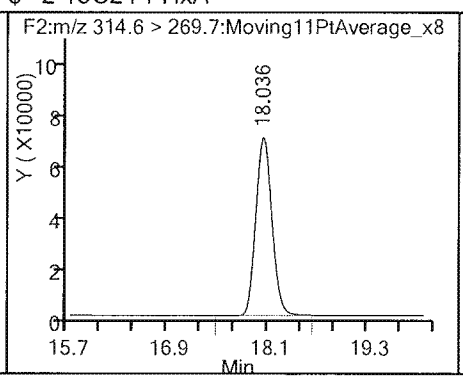
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

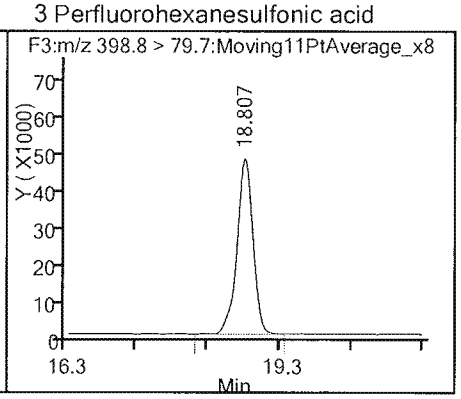
1 Perfluorobutanesulfonic acid



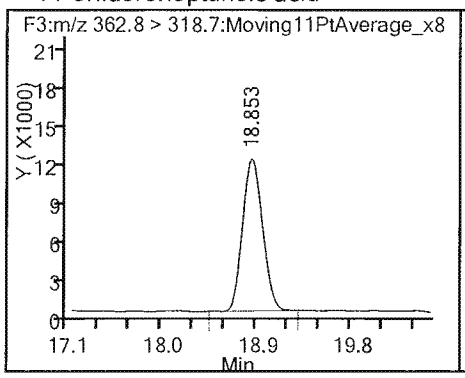
$ 2 13C2 PFHxA



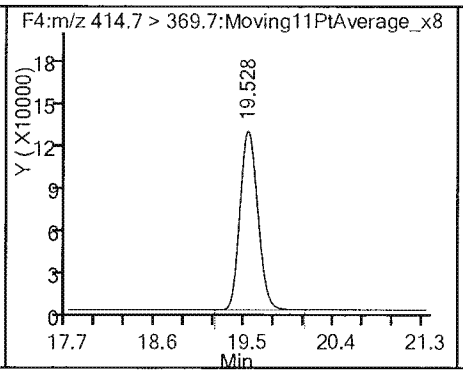
3 Perfluorohexanesulfonic acid



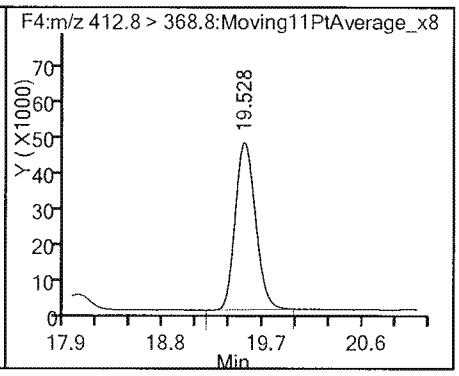
4 Perfluoroheptanoic acid



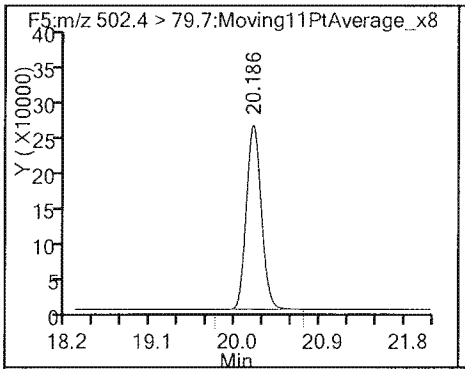
* 6 13C2-PFOA



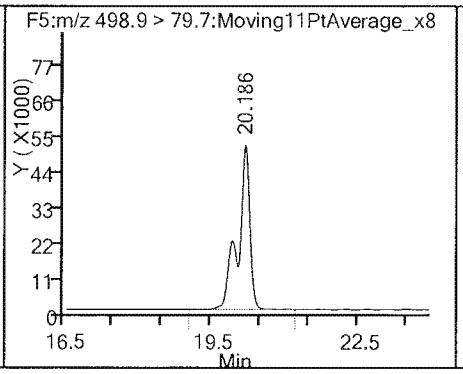
5 Perfluorooctanoic acid



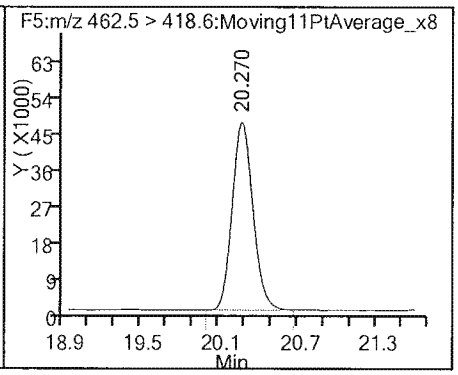
* 7 13C4 PFOS



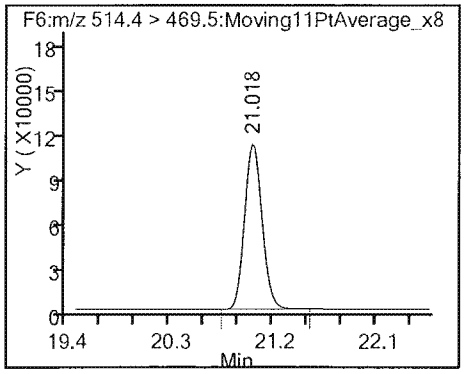
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Lab Sample ID: CCV 320-66293/43 Calibration Date: 02/23/2015 20:51

Instrument ID: A4 Calib Start Date: 02/23/2015 10:30

GC Column: Atlantis d-C18 ID: 2.10(mm) Calib End Date: 02/23/2015 12:58

Lab File ID: 23FEB15A4A_26.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanesulfonic acid (PFBS)	Lin2F		0.996		176	182	-3.1	30.0
Perfluorohexanesulfonic acid(PFHxS)	Lin2F		1.001		62.7	60.5	3.7	30.0
Perfluoroheptanoic acid (PFHpA)	Lin2F		0.3639		19.1	19.9	-4.4	30.0
Perfluorooctanoic acid (PFOA)	Lin2F		0.7006		41.3	40.4	2.2	30.0
Perfluorooctane Sulfonate (PFOS)	Lin2F		0.8950		83.6	80.7	3.6	30.0
Perfluorononanoic acid (PFNA)	Lin2F		0.5737		39.2	40.3	-2.8	30.0
13C2 PFHxA	Ave	0.6163	0.6472		10.5	10.0	5.0	30.0
13C2 PFDA	Ave	0.7501	0.7197		9.59	10.0	-4.1	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_26.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 23-Feb-2015 20:51:33 ALS Bottle#: 22 Worklist Smp#: 43
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: MB 320-66019/1-A
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:20:01 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 07:20:01

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.010	17.040	-0.030	1.000	16710761	176.0	13846	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.013	18.040	-0.027	1.000	1127954	10.5	1575	
3 Perfluorohexanesulfonic acid								E
398.8 > 79.7	18.778	18.810	-0.032	1.000	5589244	62.7	3920	E
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.824	18.854	-0.030	1.000	1264492	19.1	809	
* 6 13C2-PFOA								
414.7 > 369.7	19.497	19.532	-0.035		1742760	10.0	1143	
5 Perfluorooctanoic acid								E
412.8 > 368.8	19.497	19.533	-0.036	1.000	4933895	41.3	863	E
* 7 13C4 PFOS								
502.4 > 79.7	20.146	20.189	-0.043		2647510	28.7	2224	
8 Perfluorooctanoic Sulfonate								E
498.9 > 79.7	20.141	20.189	-0.048	1.000	6666822	83.6	3005	E
9 Perfluorononanoic acid								
462.5 > 418.6	20.226	20.270	-0.044	1.000	4031611	39.2	1674	
$ 10 13C2 PFDA								
514.4 > 469.5	20.969	21.021	-0.052	1.000	1254201	9.59	1032	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

LC537-L6_00008 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 07:20:01 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_26.d

Injection Date: 23-Feb-2015 20:51:33 Instrument ID: A4

Lims ID: CCV L6

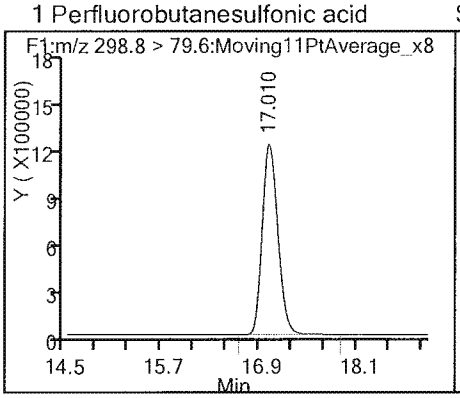
Client ID:

Operator ID: JRB ALS Bottle#: 22 Worklist Smp#: 43

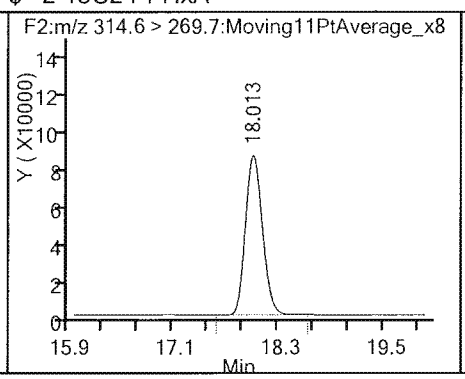
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

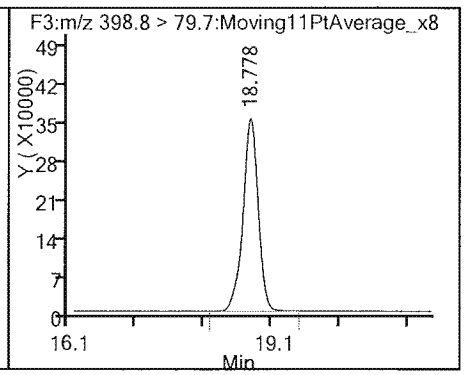
1 Perfluorobutanesulfonic acid



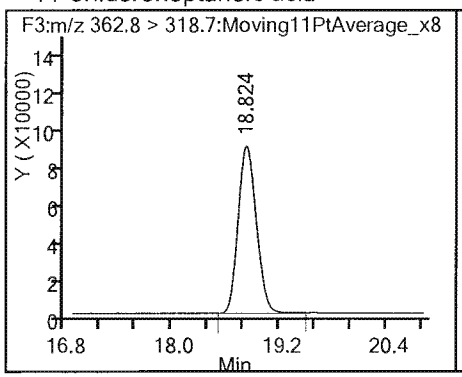
$ 2 13C2 PFHxA



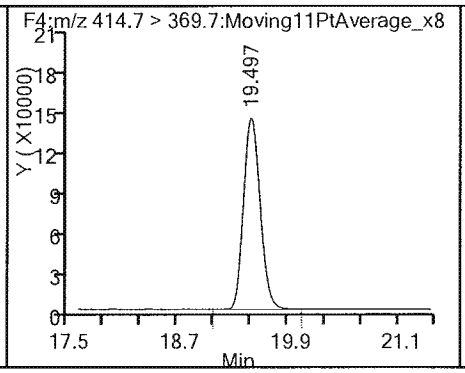
3 Perfluorohexanesulfonic acid



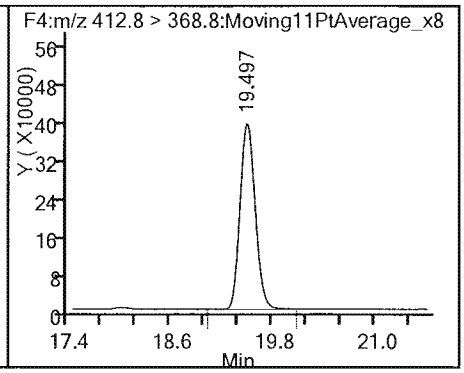
4 Perfluoroheptanoic acid



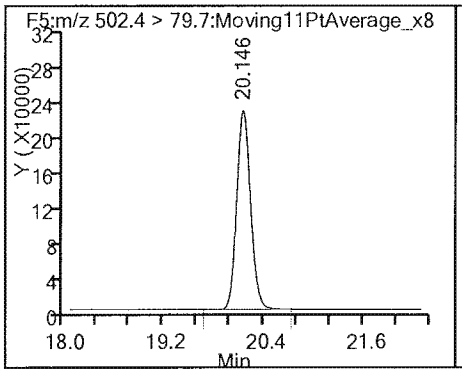
* 6 13C2-PFOA



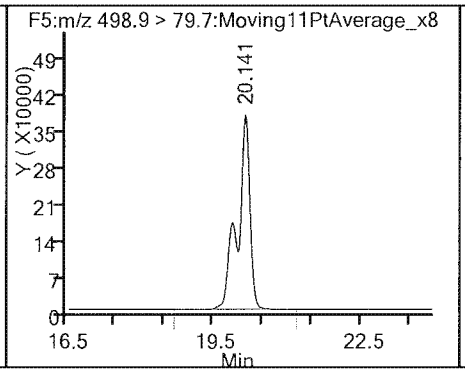
5 Perfluorooctanoic acid



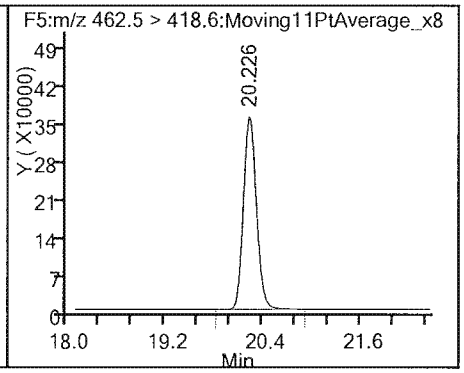
* 7 13C4 PFOS



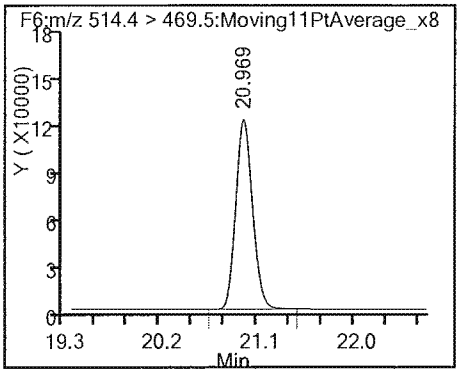
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Lab Sample ID: CCV 320-66293/22 Calibration Date: 02/24/2015 01:17

Instrument ID: A4 Calib Start Date: 02/23/2015 10:30

GC Column: Atlantis d-C18 ID: 2.10(mm) Calib End Date: 02/23/2015 12:58

Lab File ID: 23FEB15A4A_35.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanesulfonic acid (PFBS)	Lin2F		1.039		93.5	92.5	1.0	30.0
Perfluorohexanesulfonic acid(PFHxS)	Lin2F		0.9847		31.5	30.8	2.0	30.0
Perfluoroheptanoic acid (PFHpA)	Lin2F		0.3914		10.4	10.2	2.8	30.0
Perfluorooctanoic acid (PFOA)	Lin2F		0.6908		20.7	20.6	0.8	30.0
Perfluorooctane Sulfonate (PFOS)	Lin2F		0.8702		41.4	41.1	0.7	30.0
Perfluorononanoic acid (PFNA)	Lin2F		0.5826		20.3	20.5	-1.3	30.0
13C2 PFHxA	Ave	0.6163	0.7528		12.2	10.0	22.1	30.0
13C2 PFDA	Ave	0.7501	0.7515		10.0	10.0	0.2	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_35.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 24-Feb-2015 01:17:48 ALS Bottle#: 20 Worklist Smp#: 22
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: MB 320-65881/1-A
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:22:14 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 07:22:14

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.004	17.040	-0.036	1.000	9500073	93.5	9090	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.001	18.040	-0.039	1.000	1334865	12.2	1521	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.778	18.810	-0.032	1.000	2998793	31.5	2933	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.813	18.854	-0.041	1.000	704973	10.4	657	
* 6 13C2-PFOA								
414.7 > 369.7	19.486	19.532	-0.046		1773304	10.0	1248	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.486	19.533	-0.047	1.000	2521933	20.7	544	
* 7 13C4 PFOS								
502.4 > 79.7	20.132	20.189	-0.057		2833335	28.7	2072	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.132	20.189	-0.057	1.000	3533879	41.4	1883	
9 Perfluorononanoic acid								
462.5 > 418.6	20.221	20.270	-0.049	1.000	2122200	20.3	1060	
$ 10 13C2 PFDA								
514.4 > 469.5	20.964	21.021	-0.057	1.000	1332636	10.0	1277	

Reagents:

LC537-L4_00009 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 07:22:14 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_35.d

Injection Date: 24-Feb-2015 01:17:48 Instrument ID: A4

Lims ID: CCV L4

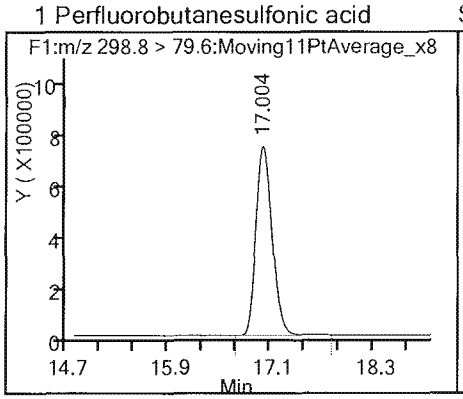
Client ID:

Operator ID: JRB ALS Bottle#: 20 Worklist Smp#: 22

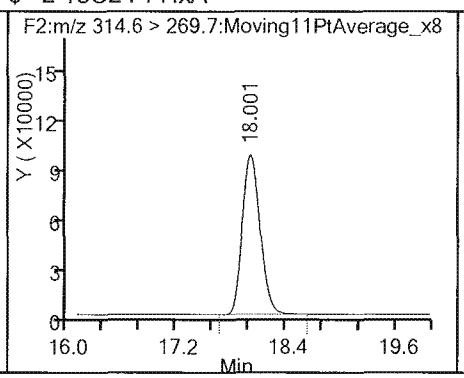
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

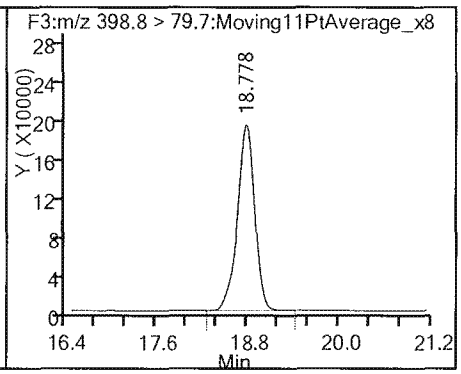
1 Perfluorobutanesulfonic acid



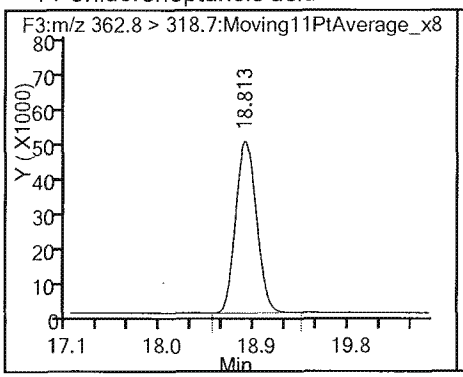
$ 2 13C2 PFHxA



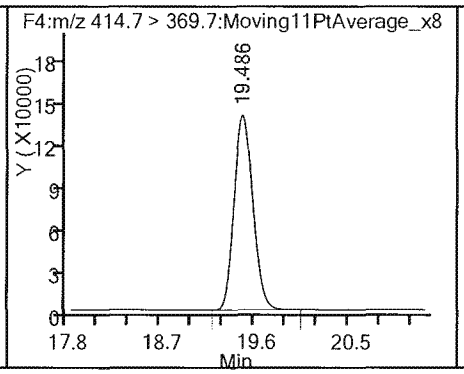
3 Perfluorohexanesulfonic acid



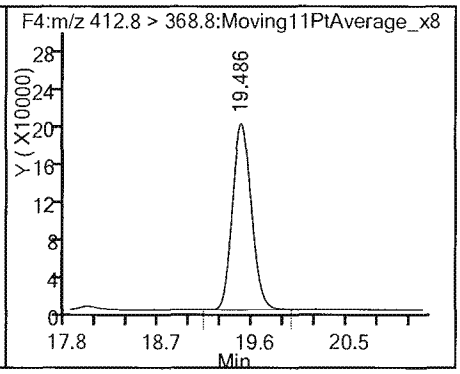
4 Perfluoroheptanoic acid



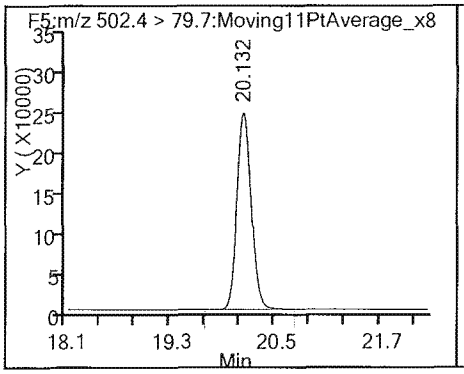
* 6 13C2-PFOA



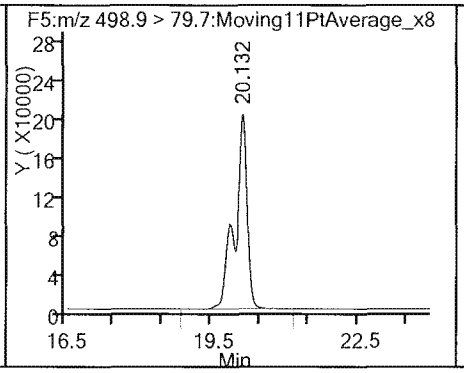
5 Perfluorooctanoic acid



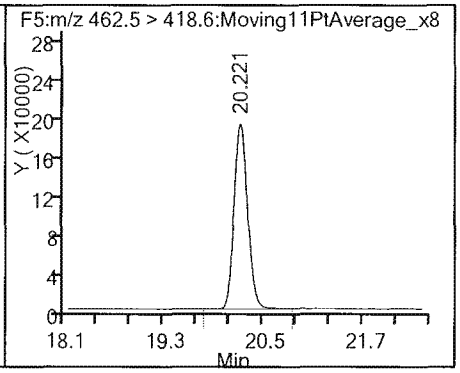
* 7 13C4 PFOS



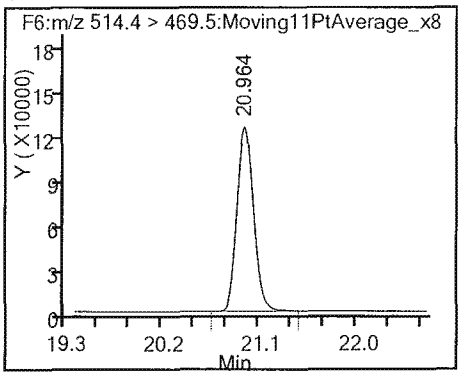
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Lab Sample ID: CCV 320-66293/33 Calibration Date: 02/24/2015 06:43

Instrument ID: A4 Calib Start Date: 02/23/2015 10:30

GC Column: Atlantis d-C18 ID: 2.10(mm) Calib End Date: 02/23/2015 12:58

Lab File ID: 23FEB15A4A_46.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanesulfonic acid (PFBS)	Lin2F		0.9791		173	182	-4.8	30.0
Perfluorohexanesulfonic acid(PFHxS)	Lin2F		1.002		62.8	60.5	3.8	30.0
Perfluoroheptanoic acid (PFHpA)	Lin2F		0.3989		20.9	19.9	4.8	30.0
Perfluorooctanoic acid (PFOA)	Lin2F		0.6955		41.0	40.4	1.5	30.0
Perfluorooctane Sulfonate (PFOS)	Lin2F		0.8920		83.3	80.7	3.3	30.0
Perfluorononanoic acid (PFNA)	Lin2F		0.5798		39.6	40.3	-1.7	30.0
13C2 PFHxA	Ave	0.6163	0.8095		13.1	10.0	31.3*	30.0
13C2 PFDA	Ave	0.7501	0.7123		9.50	10.0	-5.0	30.0

Report Date: 24-Feb-2015 12:34:18 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_46.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 24-Feb-2015 06:43:13 ALS Bottle#: 22 Worklist Smp#: 33
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: STD L6
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 12:34:18 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 12:34:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	16.998	17.040	-0.042	1.000	19778944	172.9	16012	
$ 2 13C2 PFHxA								
314.6 > 269.7	17.996	18.040	-0.044	1.000	1694724	13.1	2397	
3 Perfluorohexanesulfonic acid								E
398.8 > 79.7	18.766	18.810	-0.044	1.000	6744783	62.8	4211	E
4 Perfluoroheptanoic acid								E
362.8 > 318.7	18.807	18.854	-0.047	1.000	1665216	20.9	1102	E
* 6 13C2-PFOA								
414.7 > 369.7	19.476	19.532	-0.056		2093526	10.0	1530	
5 Perfluorooctanoic acid								E
412.8 > 368.8	19.481	19.533	-0.052	1.000	5883559	41.0	986	E
* 7 13C4 PFOS								
502.4 > 79.7	20.123	20.189	-0.066		3189323	28.7	2199	
8 Perfluorooctanoic Sulfonate								E
498.9 > 79.7	20.123	20.189	-0.066	1.000	8004578	83.3	3156	E
9 Perfluorononanoic acid								
462.5 > 418.6	20.208	20.270	-0.062	1.000	4894633	39.6	1857	
$ 10 13C2 PFDA								
514.4 > 469.5	20.955	21.021	-0.066	1.000	1491201	9.50	1191	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

LC537-L6_00008 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 12:34:18 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_46.d

Injection Date: 24-Feb-2015 06:43:13 Instrument ID: A4

Lims ID: CCV L6

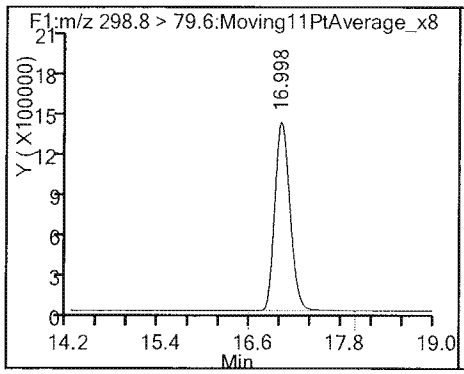
Client ID:

Operator ID: JRB ALS Bottle#: 22 Worklist Smp#: 33

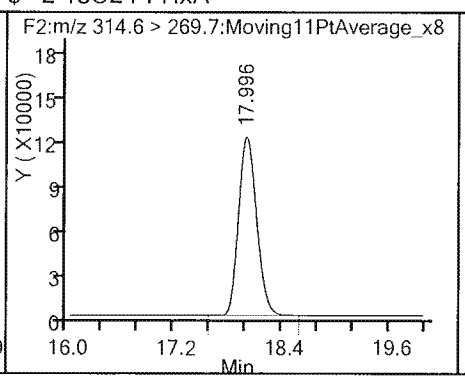
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

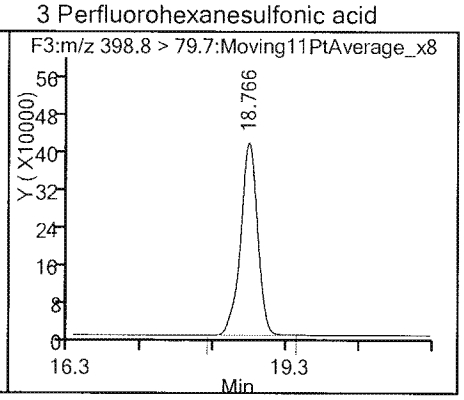
1 Perfluorobutanesulfonic acid



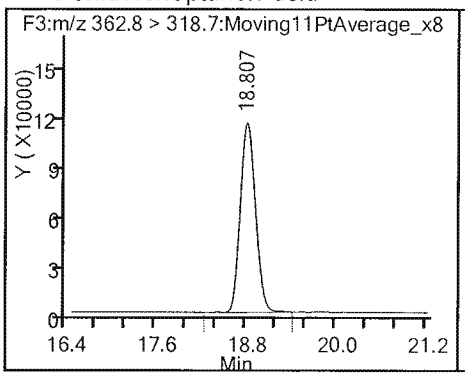
$ 2 13C2 PFHxA



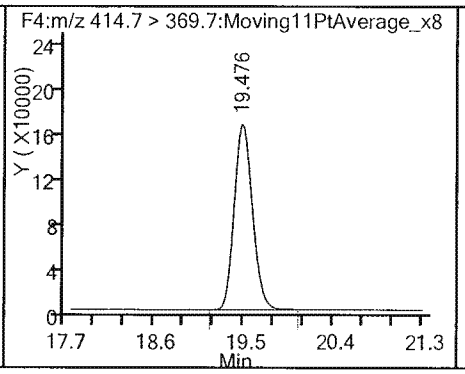
3 Perfluorohexanesulfonic acid



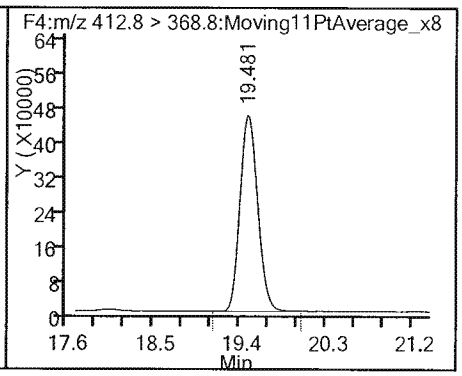
4 Perfluoroheptanoic acid



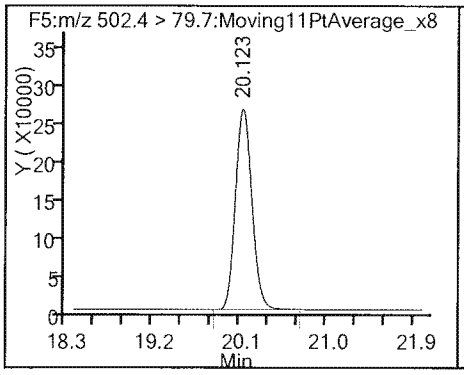
* 6 13C2-PFOA



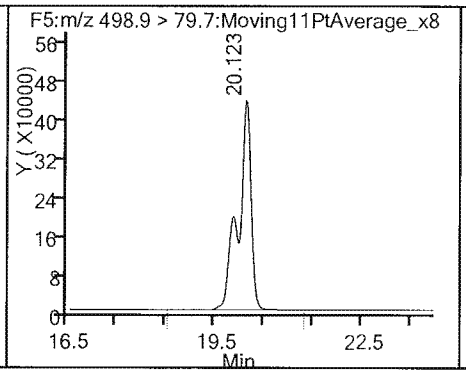
5 Perfluorooctanoic acid



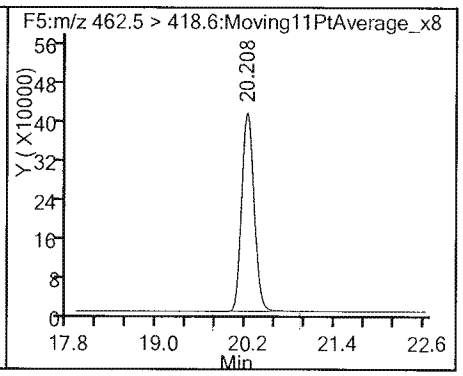
* 7 13C4 PFOS



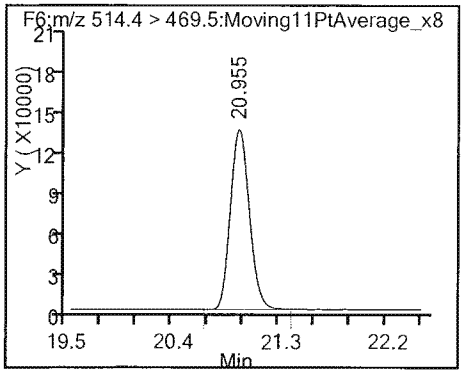
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Lab Sample ID: CCV 320-66293/53 Calibration Date: 02/24/2015 08:58

Instrument ID: A4 Calib Start Date: 02/23/2015 10:30

GC Column: Atlantis d-C18 ID: 2.10(mm) Calib End Date: 02/23/2015 12:58

Lab File ID: 23FEB15A4A_50.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanesulfonic acid (PFBS)	Lin2F		0.9857		174	182	-4.2	30.0
Perfluorohexanesulfonic acid(PFHxS)	Lin2F		0.9905		62.1	60.5	2.6	30.0
Perfluoroheptanoic acid (PFHpA)	Lin2F		0.3735		19.6	19.9	-1.9	30.0
Perfluorooctanoic acid (PFOA)	Lin2F		0.6672		39.3	40.4	-2.7	30.0
Perfluorooctane Sulfonate (PFOS)	Lin2F		0.8825		82.5	80.7	2.2	30.0
Perfluorononanoic acid (PFNA)	Lin2F		0.5721		39.1	40.3	-3.0	30.0
13C2 PFHxA	Ave	0.6163	0.7483		12.1	10.0	21.4	30.0
13C2 PFDA	Ave	0.7501	0.7331		9.77	10.0	-2.3	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_50.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 24-Feb-2015 08:58:06 ALS Bottle#: 22 Worklist Smp#: 53
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: STD L6
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 12:35:39 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 12:35:39

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.022	17.040	-0.018	1.000	19127506	174.1	22213	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.013	18.040	-0.027	1.000	1447793	12.1	1903	
3 Perfluorohexanesulfonic acid								E
398.8 > 79.7	18.795	18.810	-0.015	1.000	6402458	62.1	4451	E
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.842	18.854	-0.012	1.000	1440716	19.6	879	
* 6 13C2-PFOA								
414.7 > 369.7	19.517	19.532	-0.015		1934667	10.0	1222	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.517	19.533	-0.016	1.000	5216550	39.3	870	
* 7 13C4 PFOS								
502.4 > 79.7	20.168	20.189	-0.021		3063581	28.7	2313	
8 Perfluorooctanoic Sulfonate								E
498.9 > 79.7	20.168	20.189	-0.021	1.000	7607037	82.5	3349	E
9 Perfluorononanoic acid								
462.5 > 418.6	20.257	20.270	-0.013	1.000	4462889	39.1	1447	
$ 10 13C2 PFDA								
514.4 > 469.5	21.000	21.021	-0.021	1.000	1418345	9.77	1120	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

LC537-L6_00008 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 12:35:39 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_50.d

Injection Date: 24-Feb-2015 08:58:06 Instrument ID: A4

Lims ID: CCV L6

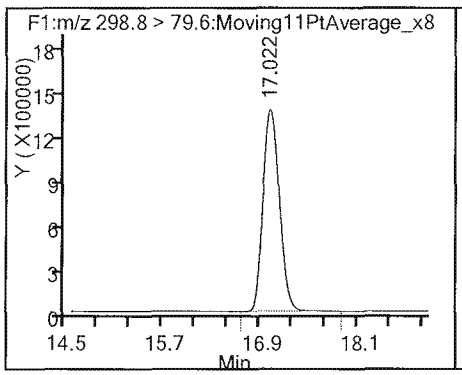
Client ID:

Operator ID: JRB ALS Bottle#: 22 Worklist Smp#: 53

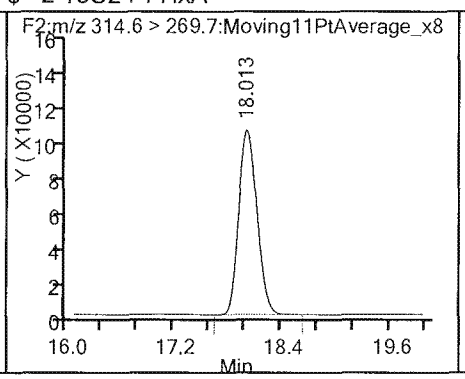
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

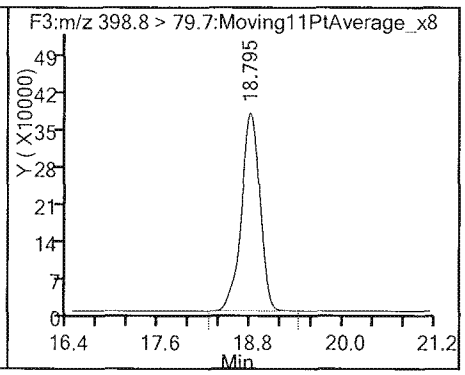
1 Perfluorobutanesulfonic acid



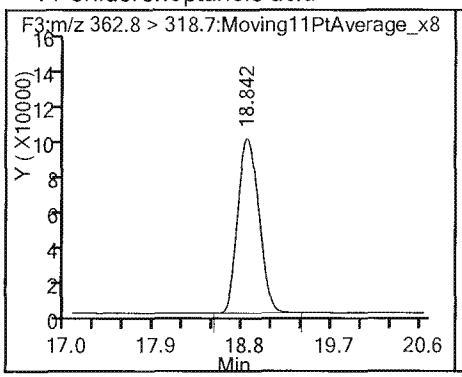
$ 2 13C2 PFHxA



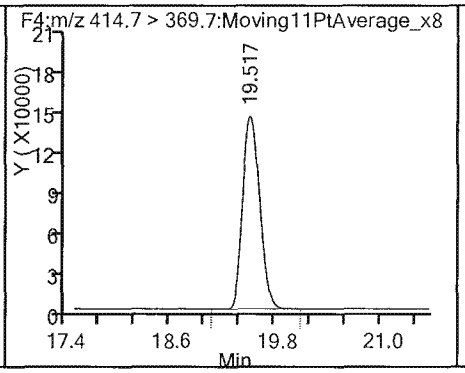
3 Perfluorohexanesulfonic acid



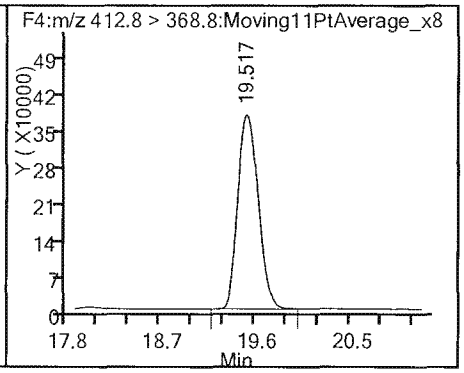
4 Perfluoroheptanoic acid



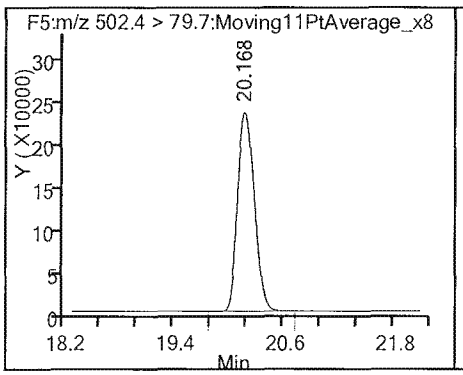
* 6 13C2-PFOA



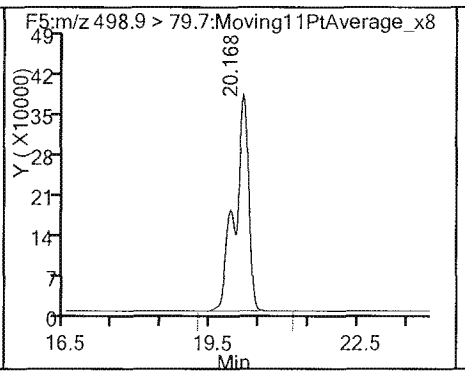
5 Perfluorooctanoic acid



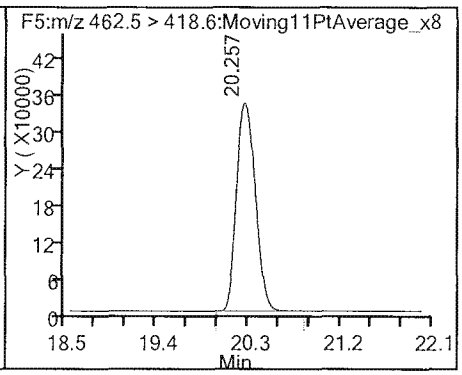
* 7 13C4 PFOS



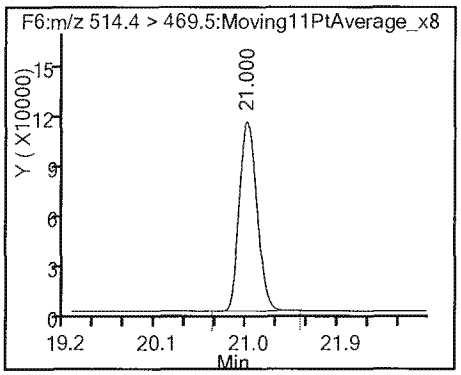
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Lab Sample ID: CCV 320-66293/58 Calibration Date: 02/24/2015 12:03

Instrument ID: A4 Calib Start Date: 02/23/2015 10:30

GC Column: Atlantis d-C18 ID: 2.10(mm) Calib End Date: 02/23/2015 12:58

Lab File ID: 23FEB15A4A_56.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanesulfonic acid (PFBS)	Lin2F		1.074		96.6	92.5	4.4	30.0
Perfluorohexanesulfonic acid(PFHxS)	Lin2F		1.002		32.0	30.8	3.8	30.0
Perfluoroheptanoic acid (PFHpA)	Lin2F		0.3627		9.68	10.2	-4.7	30.0
Perfluorooctanoic acid (PFOA)	Lin2F		0.6301		18.9	20.6	-8.1	30.0
Perfluorooctane Sulfonate (PFOS)	Lin2F		0.8783		41.8	41.1	1.7	30.0
Perfluorononanoic acid (PFNA)	Lin2F		0.5286		18.4	20.5	-10.4	30.0
13C2 PFHxA	Ave	0.6163	0.5662		9.19	10.0	-8.1	30.0
13C2 PFDA	Ave	0.7501	0.7080		9.44	10.0	-5.6	30.0

Report Date: 24-Feb-2015 12:36:53 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_56.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 24-Feb-2015 12:03:48 ALS Bottle#: 20 Worklist Smp#: 58
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: STD L4
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 12:36:53 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 12:36:52

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.010	17.040	-0.030	1.000	10243314	96.6	11375	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.007	18.040	-0.033	1.000	1068569	9.19	1511	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.789	18.810	-0.021	1.000	3184615	32.0	4110	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.836	18.854	-0.018	1.000	695217	9.68	629	
* 6 13C2-PFOA								
414.7 > 369.7	19.512	19.532	-0.020		1887175	10.0	1361	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.507	19.533	-0.026	1.000	2447779	18.9	528	
* 7 13C4 PFOS								
502.4 > 79.7	20.159	20.189	-0.030		2956382	28.7	2283	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.159	20.189	-0.030	1.000	3721642	41.8	1738	
9 Perfluorononanoic acid								
462.5 > 418.6	20.252	20.270	-0.018	1.000	2049068	18.4	1002	
$ 10 13C2 PFDA								
514.4 > 469.5	20.991	21.021	-0.030	1.000	1336105	9.44	1307	

Reagents:

LC537-L4_00009 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 12:36:53 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_56.d

Injection Date: 24-Feb-2015 12:03:48 Instrument ID: A4

Lims ID: CCV L4

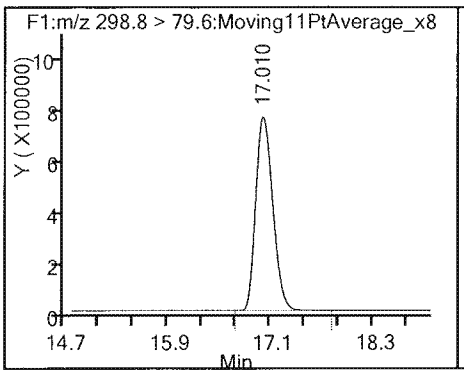
Client ID:

Operator ID: JRB ALS Bottle#: 20 Worklist Smp#: 58

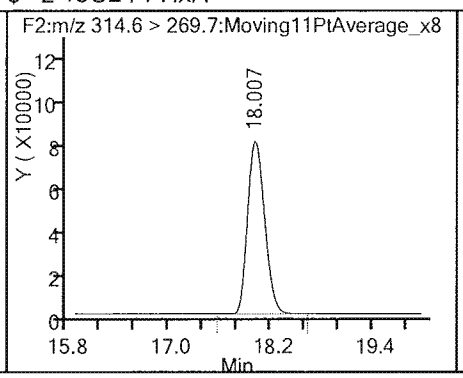
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

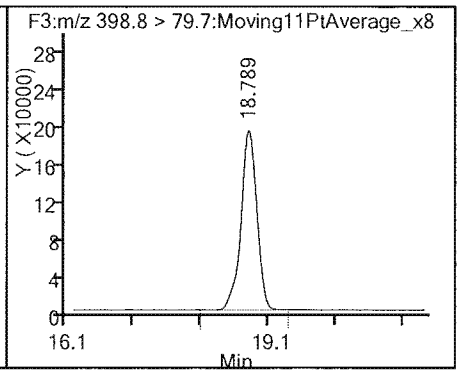
1 Perfluorobutanesulfonic acid



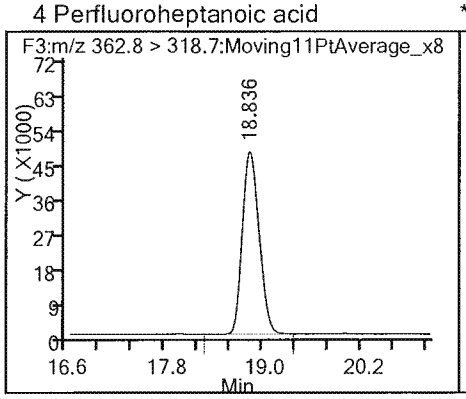
$ 2 13C2 PFHxA



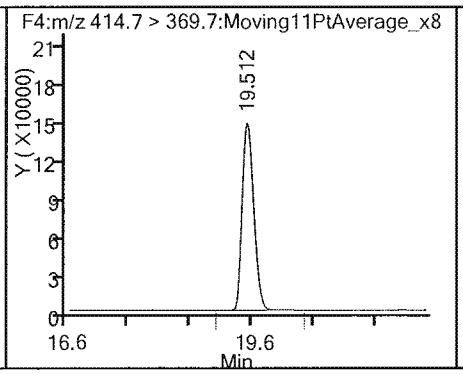
3 Perfluorohexanesulfonic acid



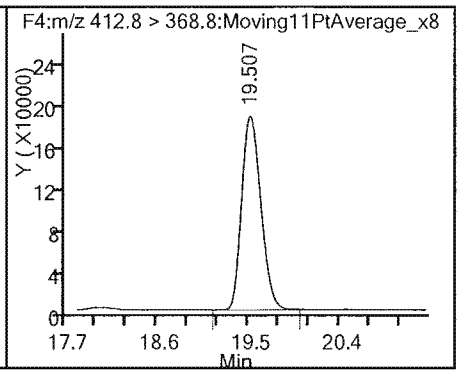
4 Perfluoroheptanoic acid



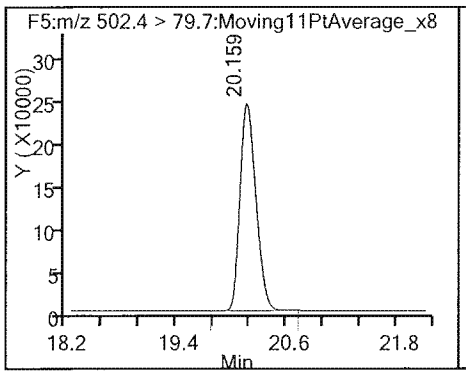
* 6 13C2-PFOA



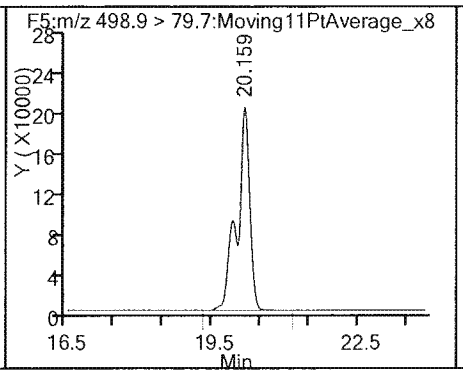
5 Perfluorooctanoic acid



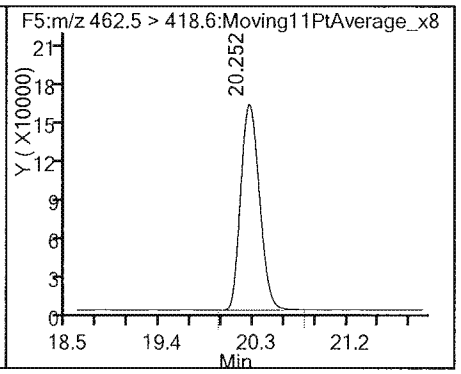
* 7 13C4 PFOS



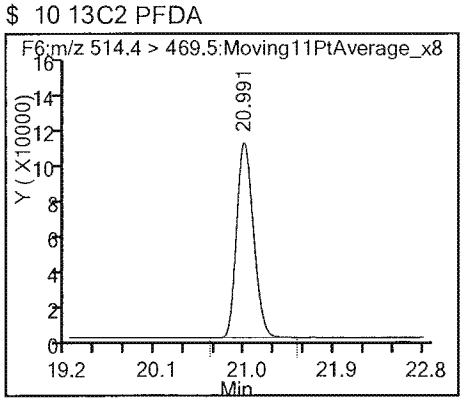
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Lab Sample ID: CCV 320-66293/59 Calibration Date: 02/24/2015 14:02

Instrument ID: A4 Calib Start Date: 02/23/2015 10:30

GC Column: Atlantis d-C18 ID: 2.10(mm) Calib End Date: 02/23/2015 12:58

Lab File ID: 23FEB15A4A_60.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanesulfonic acid (PFBS)	Lin2F		1.024		181	182	-0.5	30.0
Perfluorohexanesulfonic acid(PFHxS)	Lin2F		1.019		63.9	60.5	5.6	30.0
Perfluoroheptanoic acid (PFHpA)	Lin2F		0.3599		18.8	19.9	-5.5	30.0
Perfluorooctanoic acid (PFOA)	Lin2F		0.7332		43.2	40.4	7.0	30.0
Perfluorooctane Sulfonate (PFOS)	Lin2F		0.8930		83.4	80.7	3.4	30.0
Perfluorononanoic acid (PFNA)	Lin2F		0.5803		39.7	40.3	-1.7	30.0
13C2 PFHxA	Ave	0.6163	0.5641		9.15	10.0	-8.5	30.0
13C2 PFDA	Ave	0.7501	0.7133		9.51	10.0	-4.9	30.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_60.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 24-Feb-2015 14:02:05 ALS Bottle#: 22 Worklist Smp#: 59
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: STD L6
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4
Sublist: chrom-537_A4*sub1

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 25-Feb-2015 07:00:15 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK022

First Level Reviewer: strumj Date: 25-Feb-2015 07:00:15

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.010	17.040	-0.030	1.000	20853308	180.8	20661	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.001	18.040	-0.039	1.000	1189632	9.15	2139	
3 Perfluorohexanesulfonic acid								E
398.8 > 79.7	18.789	18.810	-0.021	1.000	6914483	63.9	7210	E
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.836	18.854	-0.018	1.000	1513313	18.8	1126	
* 6 13C2-PFOA								
414.7 > 369.7	19.512	19.532	-0.020		2108859	10.0	1353	
5 Perfluorooctanoic acid								E
412.8 > 368.8	19.512	19.533	-0.021	1.000	6248220	43.2	1005	E
* 7 13C4 PFOS								
502.4 > 79.7	20.168	20.189	-0.021		3216323	28.7	2950	
8 Perfluorooctanoic Sulfonate								E
498.9 > 79.7	20.168	20.189	-0.021	1.000	8081280	83.4	3672	E
9 Perfluorononanoic acid								
462.5 > 418.6	20.248	20.270	-0.022	1.000	4934763	39.7	2083	
$ 10 13C2 PFDA								
514.4 > 469.5	20.991	21.021	-0.030	1.000	1504155	9.51	1280	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

LC537-L6_00008 Amount Added: 1.00 Units: mL

Report Date: 25-Feb-2015 07:00:15 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_60.d

Injection Date: 24-Feb-2015 14:02:05 Instrument ID: A4

Lims ID: CCV L6

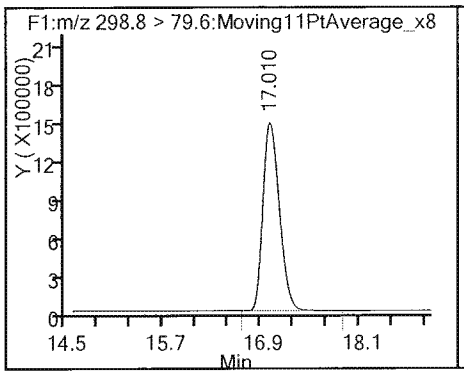
Client ID:

Operator ID: JRB ALS Bottle#: 22 Worklist Smp#: 59

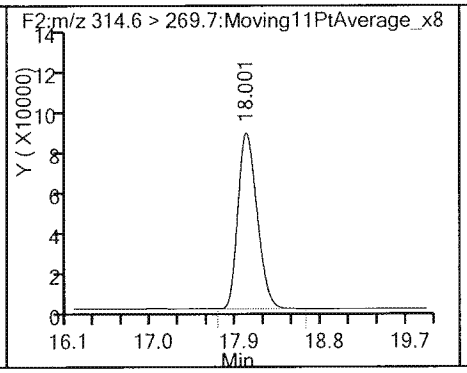
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

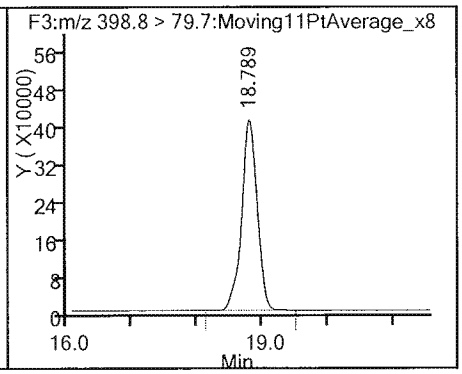
1 Perfluorobutanesulfonic acid



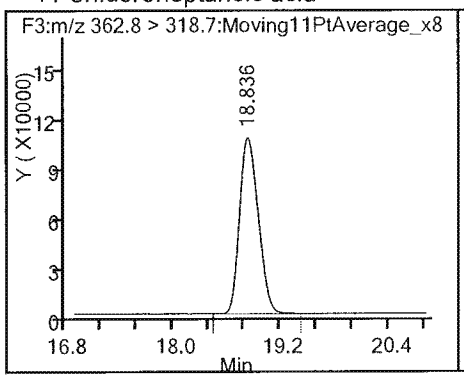
$ 2 13C2 PFHxA



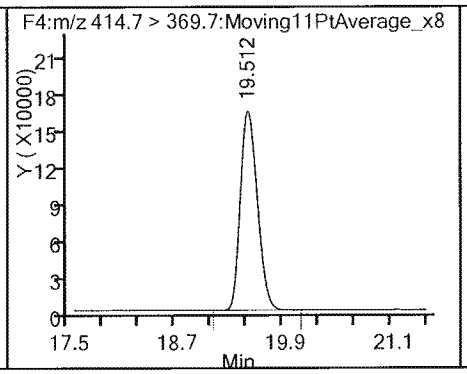
3 Perfluorohexanesulfonic acid



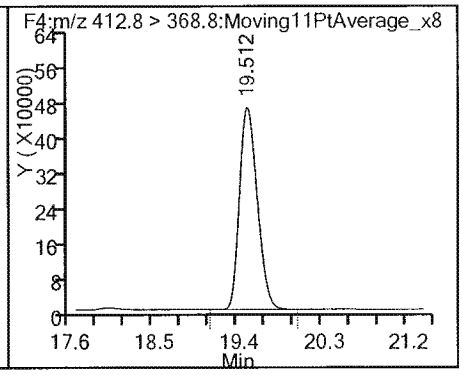
4 Perfluoroheptanoic acid



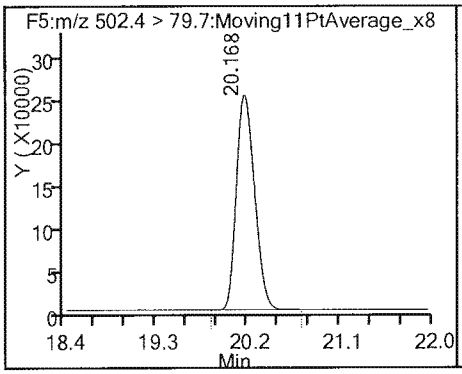
* 6 13C2-PFOA



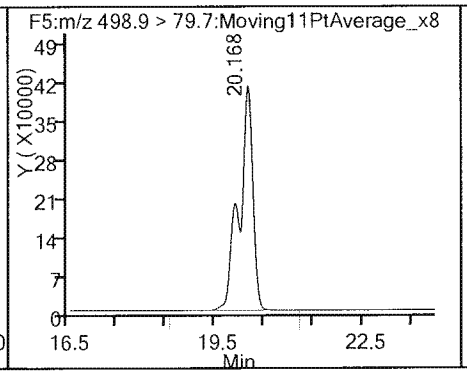
5 Perfluorooctanoic acid



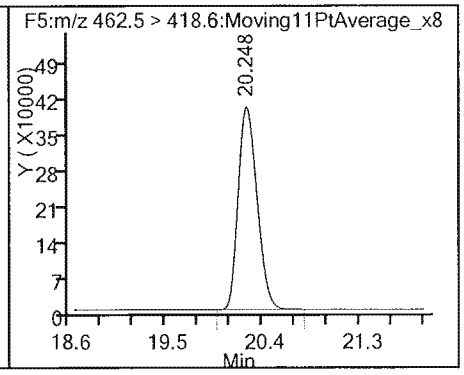
* 7 13C4 PFOS



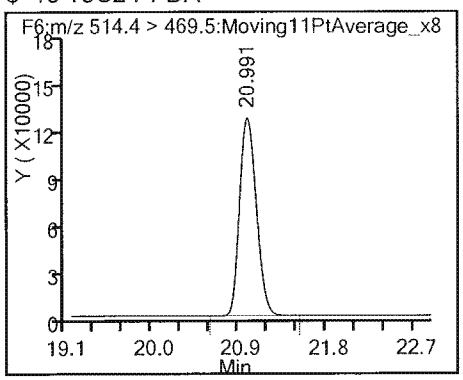
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 320-65881/1-A
Matrix: Water
Lab File ID: 23FEB15A4A_42.d
Analysis Method: 537
Date Collected:
Extraction Method: 537
Date Extracted: 02/18/2015 09:18
Sample wt/vol: 250(mL)
Date Analyzed: 02/24/2015 04:44
Con. Extract Vol.: 1.00(mL)
Dilution Factor: 1
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	ND		0.040	0.016
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.020	0.0094
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.020	0.011
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	ND		0.030	0.012
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.010	0.0046
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.090	0.048

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	112		70-130
STL00996	13C2 PFDA	94		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_42.d
Lims ID: MB 320-65881/1-A
Client ID:
Sample Type: MB
Inject. Date: 24-Feb-2015 04:44:56 ALS Bottle#: 17 Worklist Smp#: 29
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: MB 320-65881/1-A
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:23:00 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 07:23:59

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
$ 2 13C2 PFHxA								
314.6 > 269.7	18.001	18.040	-0.039	1.000	1488680	11.2	2089	
* 6 13C2-PFOA								
414.7 > 369.7	19.486	19.532	-0.046		2154957	10.0	1537	
* 7 13C4 PFOS								
502.4 > 79.7	20.132	20.189	-0.057		3445963	28.7	2903	
$ 10 13C2 PFDA								
514.4 > 469.5	20.960	21.021	-0.061	1.000	1521579	9.41	1292	

Report Date: 24-Feb-2015 07:23:59 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_42.d

Injection Date: 24-Feb-2015 04:44:56 Instrument ID: A4

Lims ID: MB 320-65881/1-A

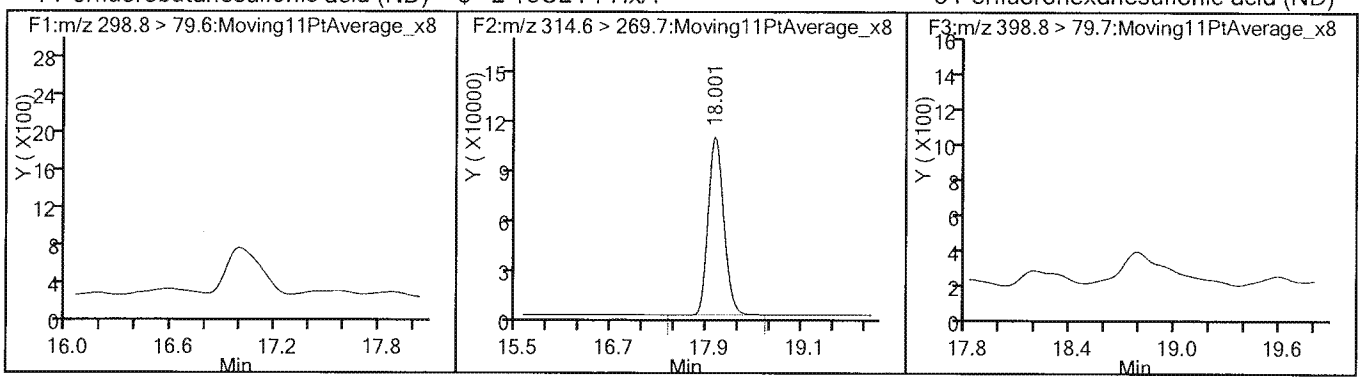
Client ID:

Operator ID: JRB ALS Bottle#: 17 Worklist Smp#: 29

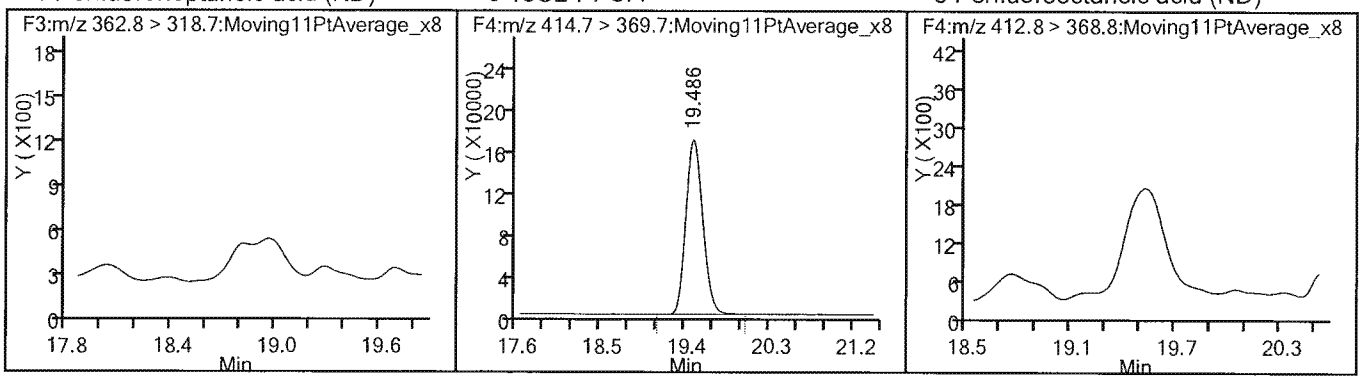
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

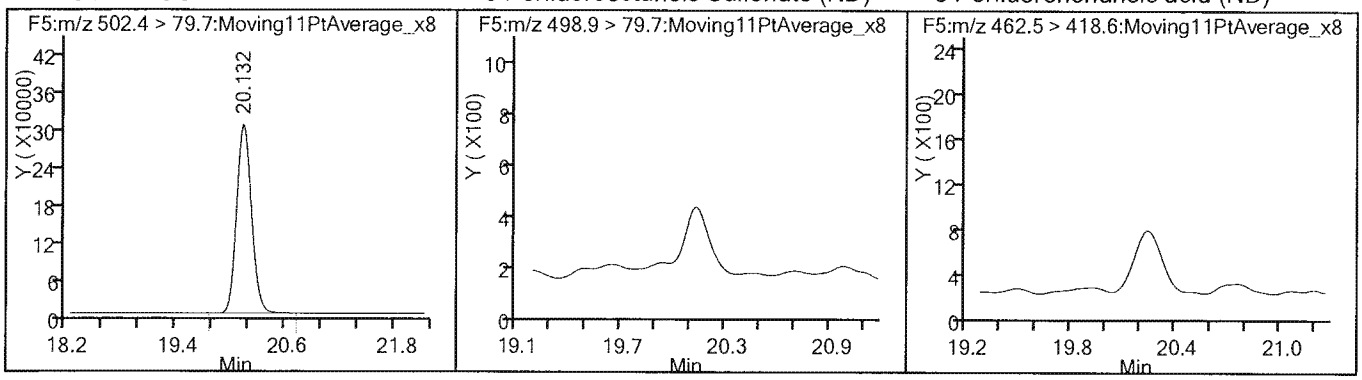
1 Perfluorobutanesulfonic acid (ND) $ 2 13C2 PFHxA 3 Perfluorohexanesulfonic acid (ND)



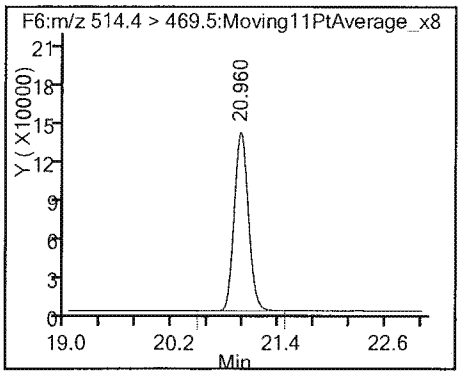
4 Perfluoroheptanoic acid (ND) * 6 13C2-PFOA 5 Perfluorooctanoic acid (ND)



* 7 13C4 PFOS 8 Perfluorooctanoic Sulfonate (ND) 9 Perfluorononanoic acid (ND)



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 320-66293/9
Matrix: Water
Lab File ID: 23FEB15A4A_11.d
Analysis Method: 537
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 1(mL)
Date Analyzed: 02/23/2015 13:28
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	ND		10	0.26
335-67-1	Perfluorooctanoic acid (PFOA)	ND		5.0	0.10
375-95-1	Perfluorononanoic acid (PFNA)	ND		5.0	0.32
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	ND		7.5	0.43
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.5	0.16
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.283	J	23	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA			
STL00996	13C2 PFDA			

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_11.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 23-Feb-2015 13:28:01 ALS Bottle#: 23 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: CCB
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:16 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.033	17.040	-0.007	1.000	32610	0.2835	42.0	
* 6 13C2-PFOA								
414.7 > 369.7	19.533	19.532	0.001		1847385	10.0	1288	
* 7 13C4 PFOS								
502.4 > 79.7	20.190	20.189	0.001		3207484	28.7	2153	

Reagents:

LC537-L9_00005 Amount Added: 1.00 Units: mL

Report Date: 24-Feb-2015 07:01:16 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_11.d

Injection Date: 23-Feb-2015 13:28:01 Instrument ID: A4

Lims ID: CCB

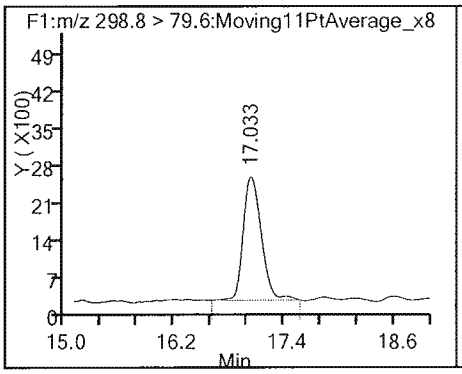
Client ID:

Operator ID: JRB ALS Bottle#: 23 Worklist Smp#: 9

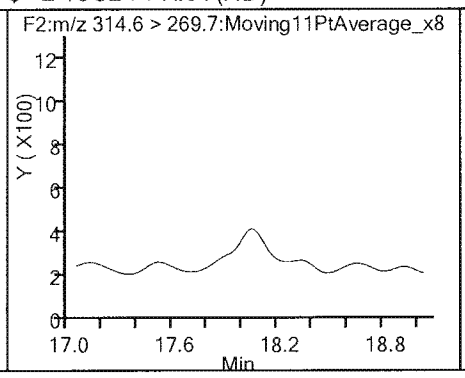
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

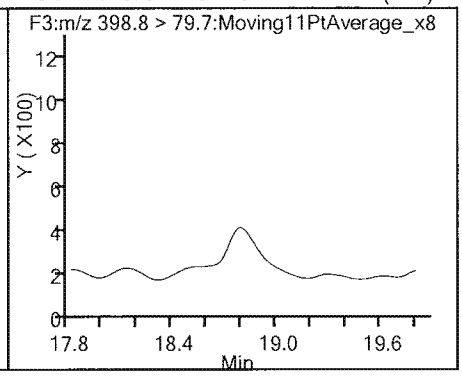
1 Perfluorobutanesulfonic acid



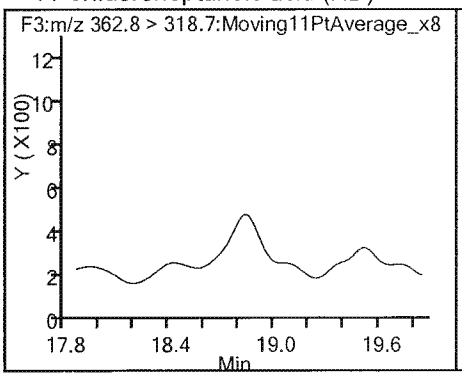
$ 2 13C2 PFHxA (ND)



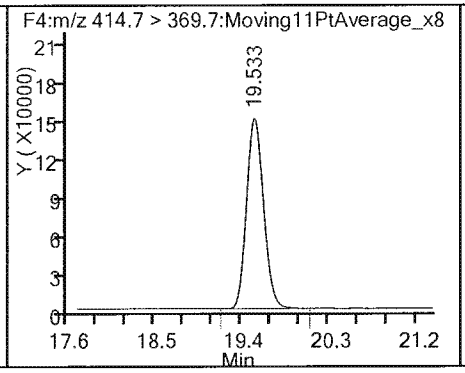
3 Perfluorohexanesulfonic acid (ND)



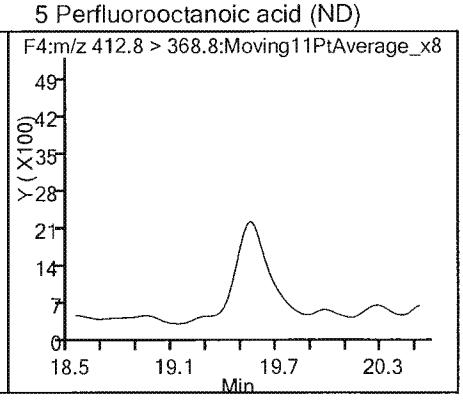
4 Perfluoroheptanoic acid (ND)



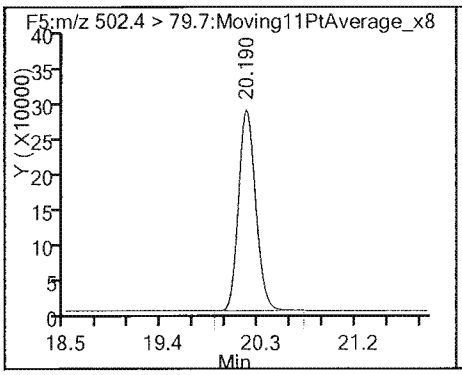
* 6 13C2-PFOA



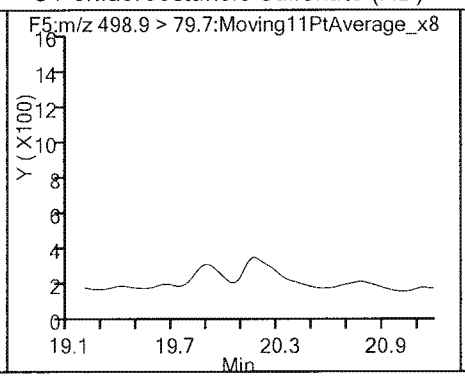
5 Perfluorooctanoic acid (ND)



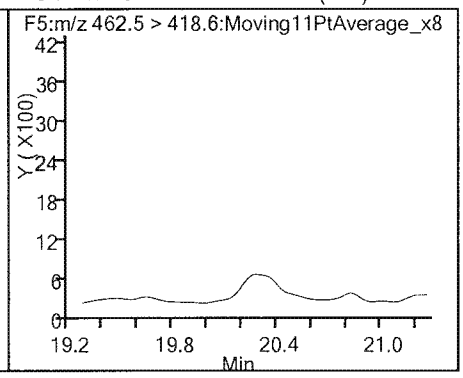
* 7 13C4 PFOS



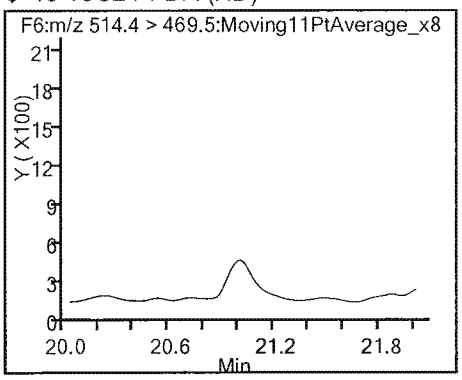
8 Perfluorooctanoic Sulfonate (ND)



9 Perfluorononanoic acid (ND)



$ 10 13C2 PFDA (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 320-65881/2-A
Matrix: Water
Lab File ID: 23FEB15A4A_43.d
Analysis Method: 537
Date Collected:
Extraction Method: 537
Date Extracted: 02/18/2015 09:18
Sample wt/vol: 250(mL)
Date Analyzed: 02/24/2015 05:14
Con. Extract Vol.: 1.00(mL)
Dilution Factor: 1
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	0.157		0.040	0.016
335-67-1	Perfluorooctanoic acid (PFOA)	0.0741		0.020	0.0094
375-95-1	Perfluorononanoic acid (PFNA)	0.0796		0.020	0.011
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	0.118		0.030	0.012
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0380		0.010	0.0046
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.317		0.090	0.048

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	120		70-130
STL00996	13C2 PFDA	93		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_43.d
Lims ID: LCS 320-65881/2-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Feb-2015 05:14:30 ALS Bottle#: 18 Worklist Smp#: 30
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: LCS 320-65881/2-A
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:24:49 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 07:24:12

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.004	17.040	-0.036	1.000	9732986	79.2	10887	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.001	18.040	-0.039	1.000	1540424	12.0	1763	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.772	18.810	-0.038	1.000	3405962	29.5	3209	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.813	18.854	-0.041	1.000	756914	9.51	478	
* 6 13C2-PFOA								
414.7 > 369.7	19.486	19.532	-0.046		2090988	10.0	1391	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.486	19.533	-0.047	1.000	2653848	18.5	697	
* 7 13C4 PFOS								
502.4 > 79.7	20.132	20.189	-0.057		3426314	28.7	2366	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.132	20.189	-0.057	1.000	4044056	39.2	2087	
9 Perfluorononanoic acid								
462.5 > 418.6	20.217	20.270	-0.053	1.000	2455960	19.9	1306	
$ 10 13C2 PFDA								
514.4 > 469.5	20.955	21.021	-0.066	1.000	1455265	9.28	1422	

Report Date: 24-Feb-2015 07:28:25 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_43.d

Injection Date: 24-Feb-2015 05:14:30 Instrument ID: A4

Lims ID: LCS 320-65881/2-A

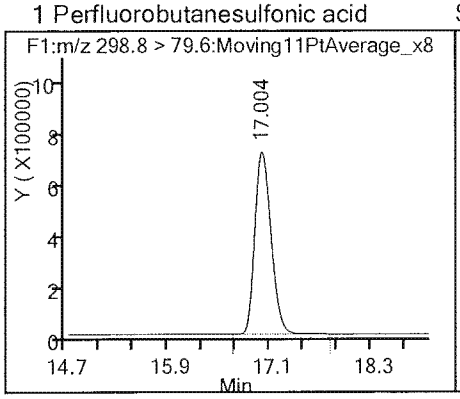
Client ID:

Operator ID: JRB ALS Bottle#: 18 Worklist Smp#: 30

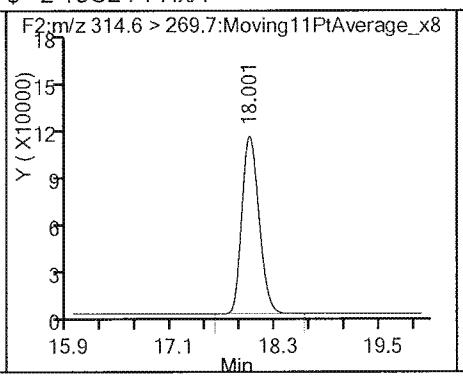
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: 537_A4 Limit Group: LC 537 ICAL

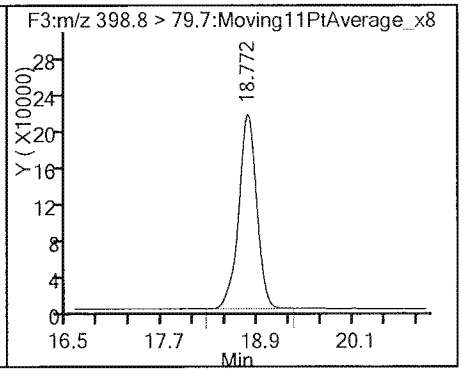
1 Perfluorobutanesulfonic acid



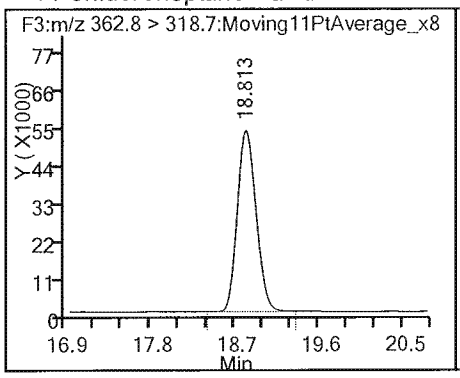
$ 2 13C2 PFHxA



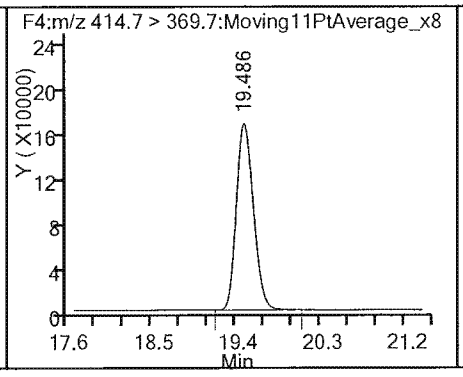
3 Perfluorohexanesulfonic acid



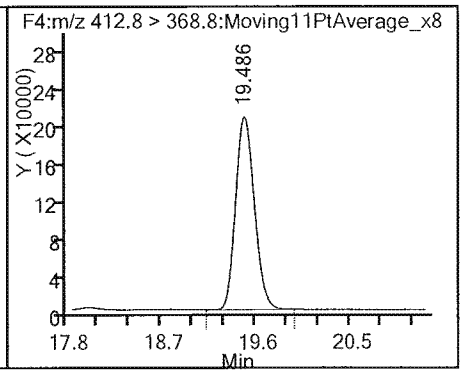
4 Perfluoroheptanoic acid



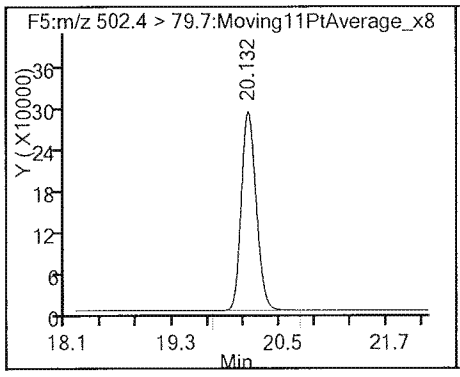
* 6 13C2-PFOA



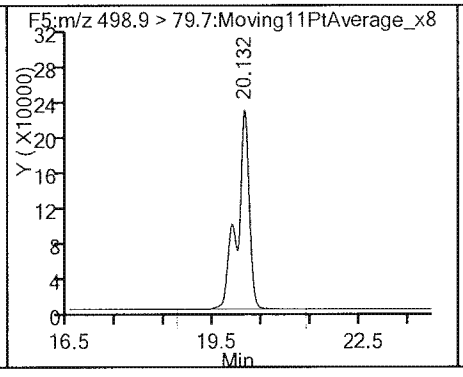
5 Perfluorooctanoic acid



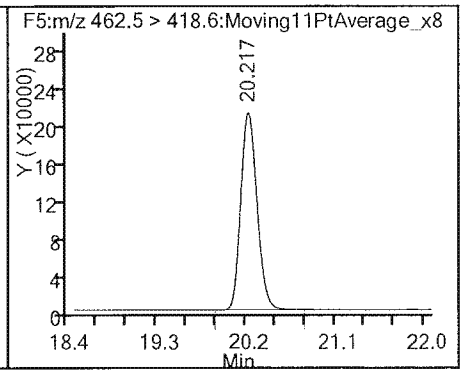
* 7 13C4 PFOS



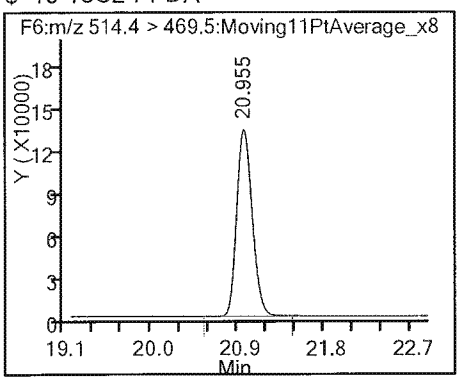
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-11644-1

SDG No.:

Client Sample ID: Well 7 MS | Lab Sample ID: 320-11644-2 MS

Matrix: Water | Lab File ID: 23FEB15A4A_19.d

Analysis Method: 537 | Date Collected: 02/11/2015 10:13

Extraction Method: 537 | Date Extracted: 02/18/2015 09:18

Sample wt/vol: 251.5(mL) | Date Analyzed: 02/23/2015 17:24

Con. Extract Vol.: 1.00(mL) | Dilution Factor: 10

Injection Volume: 10(uL) | GC Column: Atlantis d-C18 ID: 2.1(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 66293 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	ND		0.40	0.15
335-67-1	Perfluorooctanoic acid (PFOA)	0.906		0.20	0.094
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.11
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	ND		0.30	0.12
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.099	0.046
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.89	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	95		70-130
STL00996	13C2 PFDA	95		70-130

Report Date: 24-Feb-2015 07:03:49 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_19.d
Lims ID: 320-11644-B-2-B MS
Client ID: Well 7
Sample Type: MS
Inject. Date: 23-Feb-2015 17:24:31 ALS Bottle#: 31 Worklist Smp#: 46
Injection Vol: 10.0 ul Dil. Factor: 10.0000
Sample Info: 320-11644-B-2-B MS 10x
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:18 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 07:03:49

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.016	17.040	-0.024	1.000	245165	2.13	284	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.019	18.040	-0.021	1.000	99352	0.9527	146	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.789	18.810	-0.021	1.000	87842	0.8152	120	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.819	18.854	-0.035	1.000	67580	1.05	59.1	
* 6 13C2-PFOA								
414.7 > 369.7	19.507	19.532	-0.025		169198	1.00	121	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.507	19.533	-0.026	1.000	2642714	22.8	851	
* 7 13C4 PFOS								
502.4 > 79.7	20.155	20.189	-0.034		320182	2.87	259	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.160	20.189	-0.029	1.000	97968	1.02	58.2	
9 Perfluorononanoic acid								
462.5 > 418.6	20.226	20.270	-0.044	1.000	63324	0.6342	37.2	
$ 10 13C2 PFDA								
514.4 > 469.5	20.983	21.021	-0.038	1.000	121006	0.9535	128	

Report Date: 24-Feb-2015 07:03:49 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_19.d

Injection Date: 23-Feb-2015 17:24:31 Instrument ID: A4

Lims ID: 320-11644-B-2-B MS

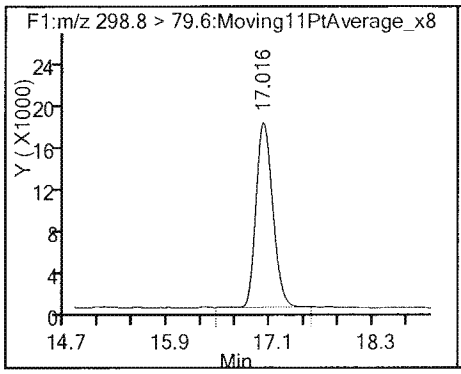
Client ID: Well 7

Operator ID: JRB ALS Bottle#: 31 Worklist Smp#: 46

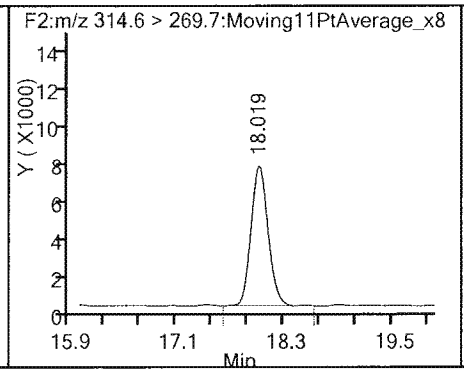
Injection Vol: 10.0 ul Dil. Factor: 10.0000

Method: 537_A4 Limit Group: LC 537 ICAL

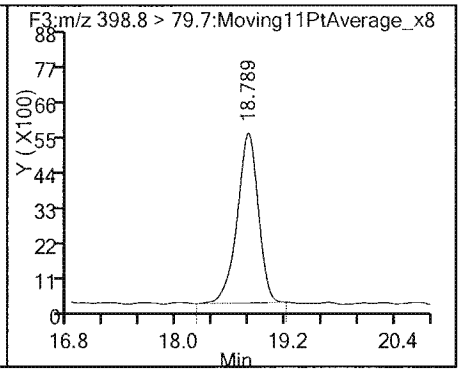
1 Perfluorobutanesulfonic acid



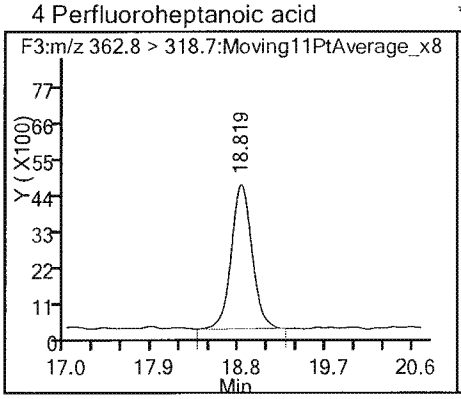
$ 2 13C2 PFHxA



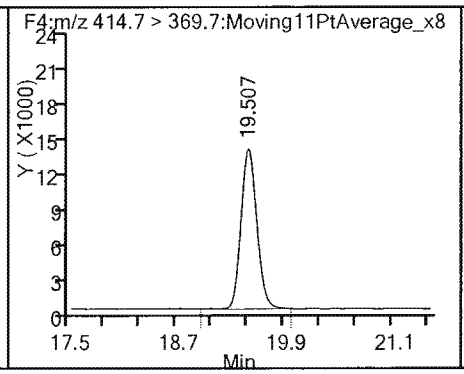
3 Perfluorohexanesulfonic acid



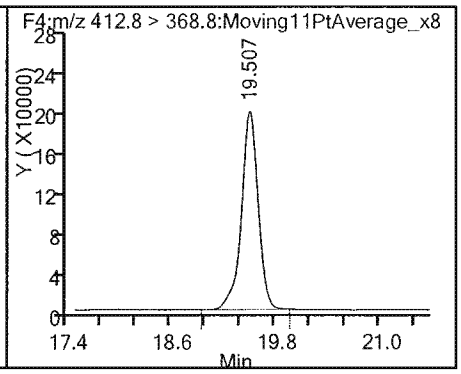
4 Perfluoroheptanoic acid



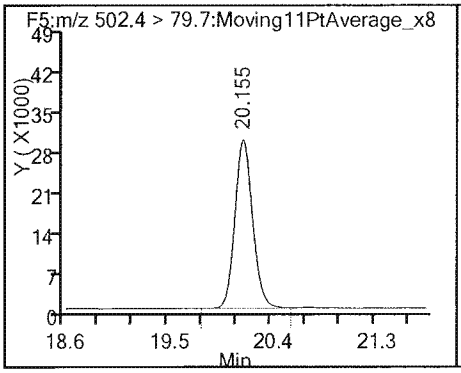
* 6 13C2-PFOA



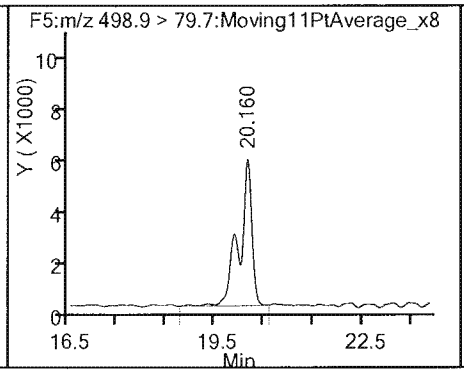
5 Perfluorooctanoic acid



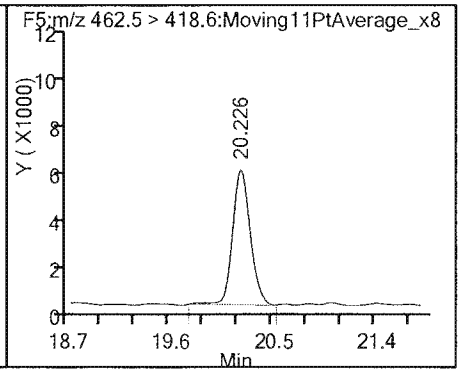
* 7 13C4 PFOS



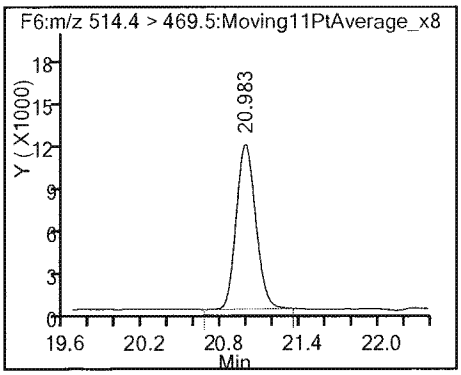
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-11644-1
SDG No.:
Client Sample ID: Well 7 MSD
Lab Sample ID: 320-11644-2 MSD
Matrix: Water
Lab File ID: 23FEB15A4A_20.d
Analysis Method: 537
Date Collected: 02/11/2015 10:13
Extraction Method: 537
Date Extracted: 02/18/2015 09:18
Sample wt/vol: 254.4(mL)
Date Analyzed: 02/23/2015 17:54
Con. Extract Vol.: 1.00(mL)
Dilution Factor: 10
Injection Volume: 10(uL)
GC Column: Atlantis d-C18 ID: 2.1(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 66293
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctane Sulfonate (PFOS)	ND		0.39	0.15
335-67-1	Perfluorooctanoic acid (PFOA)	0.981		0.20	0.093
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.11
355-46-4	Perfluorohexanesulfonic acid(PFHxS)	ND		0.29	0.12
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0467	J	0.098	0.045
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.88	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	111		70-130
STL00996	13C2 PFDA	104		70-130

Report Date: 24-Feb-2015 07:04:00 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_20.d
Lims ID: 320-11644-B-2-C MSD
Client ID: Well 7
Sample Type: MSD
Inject. Date: 23-Feb-2015 17:54:06 ALS Bottle#: 32 Worklist Smp#: 47
Injection Vol: 10.0 ul Dil. Factor: 10.0000
Sample Info: 320-11644-B-2-C MSD 10x
Misc. Info.: Acquity BEH C18,1.7u, 3X150mm,T=35C
Operator ID: JRB Instrument ID: A4

Method: \\Sacchrom\ChromData\A4\20150223-19633.b\537_A4.m
Limit Group: LC 537 ICAL
Last Update: 24-Feb-2015 07:01:18 Calib Date: 23-Feb-2015 12:58:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_10.d

Column 1 : Atlantis d-C18 (2.10 mm) Det: F1:MRM
Process Host: XAWRK027

First Level Reviewer: strumj Date: 24-Feb-2015 07:04:00

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	S/N	Flags
1 Perfluorobutanesulfonic acid								
298.8 > 79.6	17.010	17.040	-0.030	1.000	256117	2.24	366	
$ 2 13C2 PFHxA								
314.6 > 269.7	18.013	18.040	-0.027	1.000	105135	1.11	147	
3 Perfluorohexanesulfonic acid								
398.8 > 79.7	18.795	18.810	-0.015	1.000	75209	0.7025	123	
4 Perfluoroheptanoic acid								
362.8 > 318.7	18.818	18.854	-0.036	1.000	69796	1.19	59.1	
* 6 13C2-PFOA								
414.7 > 369.7	19.507	19.532	-0.025		154235	1.00	110	
5 Perfluorooctanoic acid								
412.8 > 368.8	19.501	19.533	-0.032	1.000	2637596	24.9	807	
* 7 13C4 PFOS								
502.4 > 79.7	20.159	20.189	-0.030		318127	2.87	271	
8 Perfluorooctanoic Sulfonate								
498.9 > 79.7	20.154	20.189	-0.035	1.000	103034	1.08	51.3	
9 Perfluorononanoic acid								
462.5 > 418.6	20.230	20.270	-0.040	1.000	60081	0.6601	45.4	
$ 10 13C2 PFDA								
514.4 > 469.5	20.991	21.021	-0.030	1.000	120376	1.04	109	

Report Date: 24-Feb-2015 07:04:00 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

Data File: \\Sacchrom\ChromData\A4\20150223-19633.b\23FEB15A4A_20.d

Injection Date: 23-Feb-2015 17:54:06 Instrument ID: A4

Lims ID: 320-11644-B-2-C MSD

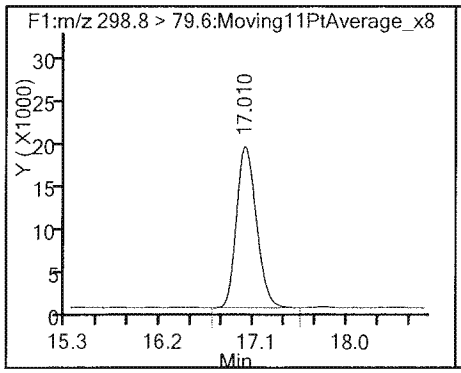
Client ID: Well 7

Operator ID: JRB ALS Bottle#: 32 Worklist Smp#: 47

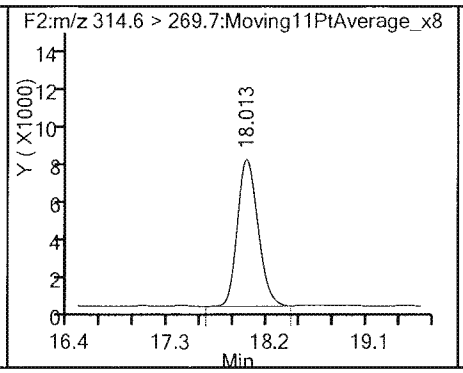
Injection Vol: 10.0 ul Dil. Factor: 10.0000

Method: 537_A4 Limit Group: LC 537 ICAL

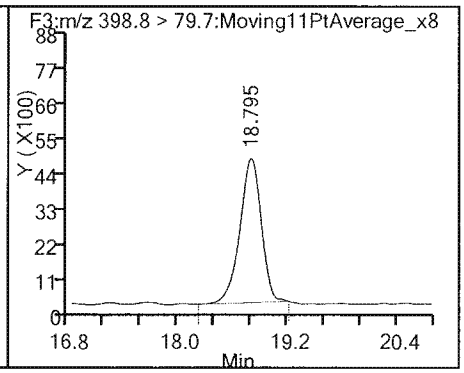
1 Perfluorobutanesulfonic acid



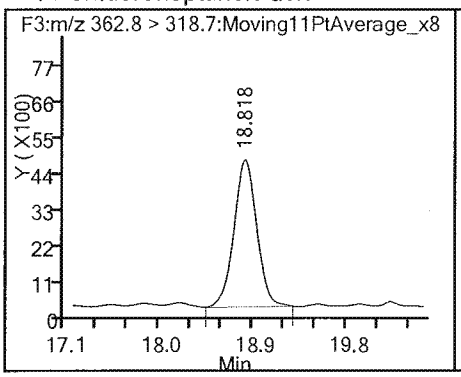
$ 2 13C2 PFHxA



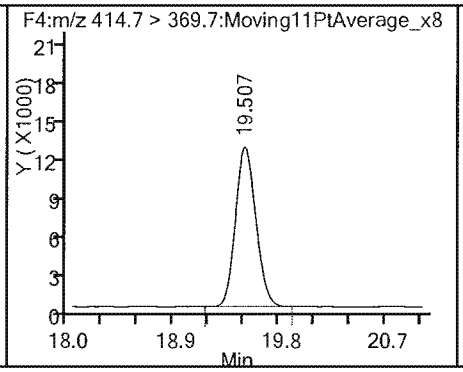
3 Perfluorohexanesulfonic acid



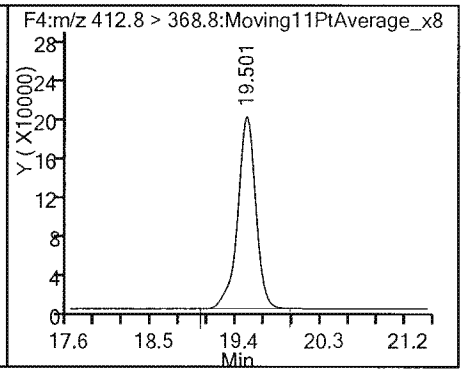
4 Perfluoroheptanoic acid



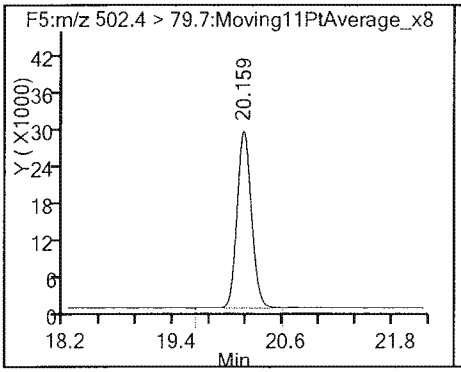
* 6 13C2-PFOA



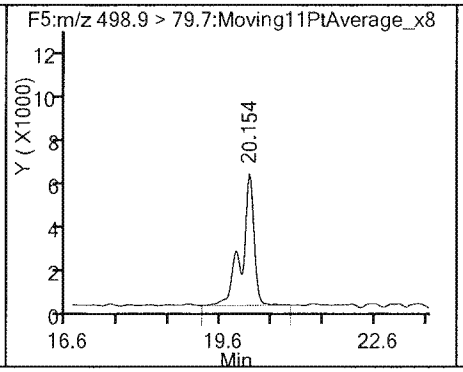
5 Perfluorooctanoic acid



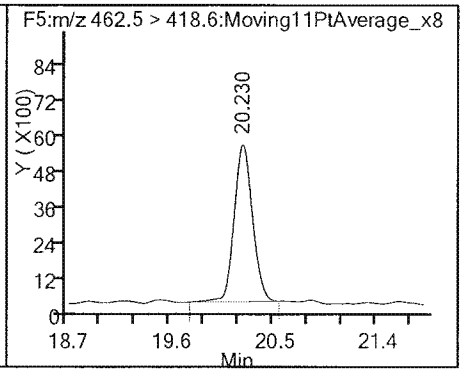
* 7 13C4 PFOS



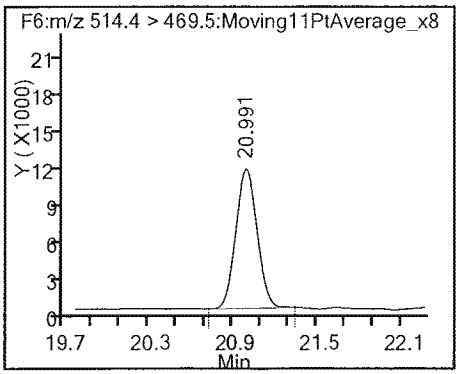
8 Perfluorooctanoic Sulfonate



9 Perfluorononanoic acid



$ 10 13C2 PFDA



LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Instrument ID: A4 Start Date: 02/23/2015 10:30

Analysis Batch Number: 66293 End Date: 02/24/2015 14:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
L1		02/23/2015 10:30	1	23FEB15A4A_05.d	Atlantis d-C18 2.1(mm)
L2		02/23/2015 11:00	1	23FEB15A4A_06.d	Atlantis d-C18 2.1(mm)
L3		02/23/2015 11:29	1	23FEB15A4A_07.d	Atlantis d-C18 2.1(mm)
L4		02/23/2015 11:59	1	23FEB15A4A_08.d	Atlantis d-C18 2.1(mm)
L5		02/23/2015 12:28	1	23FEB15A4A_09.d	Atlantis d-C18 2.1(mm)
L6		02/23/2015 12:58	1	23FEB15A4A_10.d	Atlantis d-C18 2.1(mm)
CCB 320-66293/9		02/23/2015 13:28	1	23FEB15A4A_11.d	Atlantis d-C18 2.1(mm)
ICV 320-66293/10		02/23/2015 13:57	1	23FEB15A4A_12.d	Atlantis d-C18 2.1(mm)
CCVL 320-66293/11		02/23/2015 14:27	1	23FEB15A4A_13.d	Atlantis d-C18 2.1(mm)
ZZZZZ		02/23/2015 14:56	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/23/2015 15:26	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/23/2015 15:55	2		Atlantis d-C18 2.1(mm)
320-11644-1	Finished Water	02/23/2015 16:25	10	23FEB15A4A_17.d	Atlantis d-C18 2.1(mm)
320-11644-2	Well 7	02/23/2015 16:54	10	23FEB15A4A_18.d	Atlantis d-C18 2.1(mm)
320-11644-2 MS	Well 7 MS	02/23/2015 17:24	10	23FEB15A4A_19.d	Atlantis d-C18 2.1(mm)
320-11644-2 MSD	Well 7 MSD	02/23/2015 17:54	10	23FEB15A4A_20.d	Atlantis d-C18 2.1(mm)
320-11644-5 DL	Well 3 DL	02/23/2015 18:23	5	23FEB15A4A_21.d	Atlantis d-C18 2.1(mm)
320-11644-6 DL	Well 10 DL	02/23/2015 18:53	5	23FEB15A4A_22.d	Atlantis d-C18 2.1(mm)
320-11644-7	Well 6	02/23/2015 19:22	10	23FEB15A4A_23.d	Atlantis d-C18 2.1(mm)
ZZZZZ		02/23/2015 19:52	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/23/2015 20:21	1		Atlantis d-C18 2.1(mm)
CCV 320-66293/43		02/23/2015 20:51	1	23FEB15A4A_26.d	Atlantis d-C18 2.1(mm)
ZZZZZ		02/23/2015 21:21	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/23/2015 21:50	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/23/2015 22:20	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/23/2015 22:49	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/23/2015 23:19	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/23/2015 23:49	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 00:18	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 00:48	1		Atlantis d-C18 2.1(mm)
CCV 320-66293/22		02/24/2015 01:17	1	23FEB15A4A_35.d	Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 01:47	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 02:16	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 02:46	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 03:16	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 03:45	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 04:15	1		Atlantis d-C18 2.1(mm)
MB 320-65881/1-A		02/24/2015 04:44	1	23FEB15A4A_42.d	Atlantis d-C18 2.1(mm)
LCS 320-65881/2-A		02/24/2015 05:14	1	23FEB15A4A_43.d	Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 05:44	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 06:13	1		Atlantis d-C18 2.1(mm)
CCV 320-66293/33		02/24/2015 06:43	1	23FEB15A4A_46.d	Atlantis d-C18 2.1(mm)
CCV 320-66293/53		02/24/2015 08:58	1	23FEB15A4A_50.d	Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 09:35	1		Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 10:05	1		Atlantis d-C18 2.1(mm)

537

ED_001342_00001134-00281

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Instrument ID: A4 Start Date: 02/23/2015 10:30

Analysis Batch Number: 66293 End Date: 02/24/2015 14:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
320-11644-3	Field Equipment Blank	02/24/2015 11:04	1	23FEB15A4A_54.d	Atlantis d-C18 2.1(mm)
320-11644-4	Lab Trip Blanks	02/24/2015 11:34	1	23FEB15A4A_55.d	Atlantis d-C18 2.1(mm)
CCV 320-66293/58		02/24/2015 12:03	1	23FEB15A4A_56.d	Atlantis d-C18 2.1(mm)
320-11644-5	Well 3	02/24/2015 12:33	1	23FEB15A4A_57.d	Atlantis d-C18 2.1(mm)
320-11644-6	Well 10	02/24/2015 13:02	1	23FEB15A4A_58.d	Atlantis d-C18 2.1(mm)
ZZZZZ		02/24/2015 13:32	1		Atlantis d-C18 2.1(mm)
CCV 320-66293/59		02/24/2015 14:02	1	23FEB15A4A_60.d	Atlantis d-C18 2.1(mm)

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Batch Number: 65881 Batch Start Date: 02/18/15 09:18 Batch Analyst: Edwards, Stephanie N

Batch Method: 537 Batch End Date: 02/19/15 15:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LC537-IS 00008	LC537-LSP 00004
MB 320-65881/1		537, 537				250 mL	1.00 mL	10 uL	
LCS 320-65881/2		537, 537				250 mL	1.00 mL	10 uL	
320-11644-B-1	Finished Water	537, 537	T	279.79 g	26.71 g	253.1 mL	1.00 mL	10 uL	
320-11644-B-2	Well 7	537, 537	T	277.72 g	26.96 g	250.8 mL	1.00 mL	10 uL	
320-11644-B-2 MS	Well 7	537, 537	T	278.51 g	27.05 g	251.5 mL	1.00 mL	10 uL	50 uL
320-11644-B-2 MSD	Well 7	537, 537	T	281.14 g	26.72 g	254.4 mL	1.00 mL	10 uL	50 uL
320-11644-B-3	Field Equipment Blank	537, 537	T	283.53 g	26.64 g	256.9 mL	1.00 mL	10 uL	
320-11644-B-4	Lab Trip Blanks	537, 537	T	283.02 g	26.73 g	256.3 mL	1.00 mL	10 uL	
320-11644-B-5	Well 3	537, 537	T	284.78 g	26.82 g	258 mL	1.00 mL	10 uL	
320-11644-B-6	Well 10	537, 537	T	284.01 g	27.19 g	256.8 mL	1.00 mL	10 uL	
320-11644-B-7	Well 6	537, 537	T	286.54 g	27.01 g	259.5 mL	1.00 mL	10 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	LC537-MSP 00004	LC537-SU 00010	AnalysisComment			
MB 320-65881/1		537, 537			50 uL	pH-7; Chlorine ND			
LCS 320-65881/2		537, 537		50 uL	50 uL	pH-7; Chlorine ND			
320-11644-B-1	Finished Water	537, 537	T		50 uL	pH-7; Chlorine ND			
320-11644-B-2	Well 7	537, 537	T		50 uL	pH-7; Chlorine ND			
320-11644-B-2 MS	Well 7	537, 537	T		50 uL	pH-7; Chlorine ND			
320-11644-B-2 MSD	Well 7	537, 537	T		50 uL	pH-7; Chlorine ND			
320-11644-B-3	Field Equipment Blank	537, 537	T		50 uL	pH-7; Chlorine ND			
320-11644-B-4	Lab Trip Blanks	537, 537	T		50 uL	pH-7; Chlorine ND			
320-11644-B-5	Well 3	537, 537	T		50 uL	pH-7; Chlorine ND			
320-11644-B-6	Well 10	537, 537	T		50 uL	pH-7; Chlorine ND			
320-11644-B-7	Well 6	537, 537	T		50 uL	pH-7; Chlorine ND			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-11644-1

SDG No.:

Batch Number: 65881 Batch Start Date: 02/18/15 09:18 Batch Analyst: Edwards, Stephanie N

Batch Method: 537 Batch End Date: 02/19/15 15:35

Batch Notes	
Batch Comment	Trizma sigma SLBF6022V; Cartridge Agilent 6234316-06; MeOH 390135; Water 2-6-15; Pipette EC15219

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

HPLC/LCMS Data Review Checklist

Job Number(s): 11644, 11699 Work List ID(s): 19633 19606

Extraction Batch: 65881, 66019 Analysis Batch(es): 66293 66206

Delivery Rank 4 Due Date: 2/22/15

A. Calibration/Instrument Run QC	1st Level	2nd Level	N/A
1. ICAL locked in Chrom and TALS? ICAL Batch#	✓	✓	
2. ICAL, CCV Frequency & Criteria met.	✓	✓	
• $RF_{average}$ criteria appropriate for the method.	✓	✓	
• Linear Regression criteria appropriate if required ($r \geq 0.995$).	✓	✓	
• Quadratic fit criteria appropriate if required ($r^2 \geq 0.990$).			✓
• For Linear Regression and Quadratic fit – Does the y-intercept support ½ the reporting limit as described in CA-Q-S-005?	✓	✓	
• All curve points show calculated concentrations.	✓	✓	
3. Peaks correctly ID'd by data system.	✓	✓	
5. Tune check frequency & criteria met and Tune check report attached.			✓
B. QA/QC			
1. Are all QC samples properly linked in TALS?	✓	✓	
2. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present.	✓	✓	
4. Are MS/MSD recoveries and RPD within control limits?	✓*	✓	
5. Holding Times were met for prep and analytical.	✓	✓	
6. IS/Surrogate recoveries meet criteria or properly noted.	✓*	✓	
C. Sample Analysis			
1. Was correct analysis performed and were project instructions followed?	✓	✓	
2. If required, are compounds within RT windows?	✓	✓	
3. If required, are positive hits confirmed and >40% RPD flagged?			✓
4. Manual Integrations reviewed and appropriate.			✓
5. All analytes correctly reported. (Primary, secondary, acceptable status)	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation 29392			
1. Are all non-conformances documented/attached? NCM# 29352, 4, 8; 29383, 7	✓	✓	
2. Do results make sense (e.g. dilutions, etc.)?	✓	✓	
3. Have all flags been reviewed for appropriateness?	✓	✓	
4. For level 3 and 4 reports, have forms and raw data been reviewed?		✓	
5. Was QC Checker run for this job?	✓	✓	

Upon completion of this checklist, the reviewer must scan and attach the checklist to the TALS job.

1st Level (Analyst): [signature] Date: 2/25/15

2nd Level Reviewer: MKWay Date: 2/25/2015

* see NCM

q:\forms\checklists\qa-570_lcms_review ns 2012-09-25.doc QA-570 Revised NS 9/25/2012

ED_001342_00001134-00285

Box #34

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-65881

Method Code: 320-537_Prep-320

Analyst: Edwards, Stephanie N

Batch Open: 2/18/2015 9:18:16AM

Batch End: 2/19/15 15:35

Extraction of Perfluorinated Alkyl Acids

	Input Sample Lab ID (Analytical Method)	SDG	GrossWt TareWt	InitAmnt FinAmnt	PHs Rcvd	PHs Adj1	PHs Adj2	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	MB~320-65881/1 N/A	N/A		250 mL				N/A	N/A	N/A	pH-7; Chlorine ND	MB 320-65881/1-A
				1.00 mL								
2	LCS~320-65881/2 N/A	N/A		250 mL				N/A	N/A	N/A	pH-7; Chlorine ND	LCS 320-65881/2-A
				1.00 mL								
3	320-11644-B-1 (537)	N/A	279.79 g	253.1 mL				2/25/15	8_Days	4	pH-7; Chlorine ND	320-11644-B-1-A
			26.71 g	1.00 mL								
4	320-11644-B-2 (537)	N/A	277.72 g	250.8 mL				2/25/15	8_Days	4	pH-7; Chlorine ND	320-11644-B-2-A
			26.96 g	1.00 mL								
5	320-11644-B-2~MS (537)	N/A	278.51 g	251.5 mL				2/25/15	8_Days	4	pH-7; Chlorine ND	320-11644-B-2-B MS
			27.05 g	1.00 mL								
6	320-11644-B-2~MSD (537)	N/A	281.14 g	254.4 mL				2/25/15	8_Days	4	pH-7; Chlorine ND	320-11644-B-2-C MSD
			26.72 g	1.00 mL								
7	320-11644-B-3 (537)	N/A	283.53 g	256.9 mL				2/25/15	8_Days	4	pH-7; Chlorine ND	320-11644-B-3-A
			26.64 g	1.00 mL								
8	320-11644-B-4 (537)	N/A	283.02 g	256.3 mL				2/25/15	8_Days	4	pH-7; Chlorine ND	320-11644-B-4-A
			26.73 g	1.00 mL								
9	320-11644-B-5 (537)	N/A	284.78 g	258 mL				2/25/15	8_Days	4	pH-7; Chlorine ND	320-11644-B-5-A
			26.82 g	1.00 mL								
10	320-11644-B-6 (537)	N/A	284.01 g	256.8 mL				2/25/15	8_Days	4	pH-7; Chlorine ND	320-11644-B-6-A
			27.19 g	1.00 mL								

Printed : 2/18/2015

TestAmerica Sacramento

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-65881

Analyst: Edwards, Stephanie N

Batch Open: 2/18/2015 9:18:16AM

Method Code: 320-537_Prep-320

Batch End:

11	320-11644-B-7 (537)	N/A	286.54 g	259.5 mL				2/25/15	8_Days	4	pH-7; Chlorine ND	320-11644-B-7-A
			27.01 g	1.00 mL								

Batch Notes

Batch Comment Trizma sigma SLBF6022V; Cartridge Agilent 6234316-06; MeOH 390135; Water 2-6-15; Pipette EC15219

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-65881

Analyst: Edwards, Stephanie N

Batch Open: 2/18/2015 9:18:16AM

Method Code: 320-537_Prep-320

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-65881/1	LC537-SU_00010	50 uL	1.00 mL	AM 2/18/15	SNE 2/18/15
LCS 320-65881/2	LC537-MSP_00004	50 uL	1.00 mL		
LCS 320-65881/2	LC537-SU_00010	50 uL	1.00 mL		
320-11644-B-1	LC537-SU_00010	50 uL	1.00 mL		
320-11644-B-2	LC537-SU_00010	50 uL	1.00 mL		
320-11644-B-2 MS	LC537-LSP_00004	50 uL	1.00 mL		
320-11644-B-2 MS	LC537-SU_00010	50 uL	1.00 mL		
320-11644-B-2 MSD	LC537-LSP_00004	50 uL	1.00 mL		
320-11644-B-2 MSD	LC537-SU_00010	50 uL	1.00 mL		
320-11644-B-3	LC537-SU_00010	50 uL	1.00 mL		
320-11644-B-4	LC537-SU_00010	50 uL	1.00 mL		
320-11644-B-5	LC537-SU_00010	50 uL	1.00 mL		
320-11644-B-6	LC537-SU_00010	50 uL	1.00 mL		
320-11644-B-7	LC537-SU_00010	50 uL	1.00 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-65881

Analyst: Edwards, Stephanie N

Batch Open: 2/18/2015 9:18:16AM

Method Code: 320-537_Prep-320

Batch End:

Other Reagents:

Reagent	Amount/Units	Lot#:
LC537-IS-00008 1-2.87 ug/mL	Spiked by: HJA 2-19-15	Witness: SNE 2/19/15
Exp: 8/12/15		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s): 320-65881 Test 537

Earliest Holding Time: 2/24/15

Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
All necessary NCMs filed (including holding time)	NA	NA
Method/sample/login/QAS checked and correct	✓	✓
Worksheet Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All samples properly preserved	✓	✓
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and CI Check)	✓	✓
The pH is transcribed correctly in TALS	✓	✓
All additional information transcribed into TALS is correct and raw data is attached	✓	✓
Comments are transcribed correctly in TALS	✓	✓
Reagents Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All necessary reagents not expired and entered into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Batch Information	**1st Level Reviewer**	**2nd Level Reviewer**
Date and time accurate and entered into TALS correctly	✓	✓
All necessary 'batch information' complete and entered into TALS correctly	✓	✓

1st Level Reviewer: HJA Date: 2-19-15

2nd Level Reviewer: SNE Date: 2/19/15

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America – West Sacramento

Sample Dilution Record

Method ID 320 - 537_Prep-320 Lot # 90285

Analyst (Print Name) John Strum Analyst Initials JSS

Date 2/23/15

Sample#	Original F.V. (uL)	Aliquot (uL)	Dilution F.V. (uL)	Dilution Factor
320-11699-4	1000	100	200	2x
320-11644-1	↓	20	200	10x
320-11644-2		20	200	10x
320-11644-2 MS		20	200	10x
320-11644-2 MSD		20	200	10x
320-11644-5		20	100	5x
320-11644-6		20	100	5x
320-11644-7		20	200	10x

Comments:

Box #34

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-66019

Method Code: 320-537_Prep-320

Analyst: Arauz, Horacio J

Batch Open: 2/19/2015 10:21:57AM

Batch End: 2-20-15 10:00

Extraction of Perfluorinated Alkyl Acids

	Input Sample Lab ID (Analytical Method)	SDG	GrossWt TareWt	InitAmnt FinAmnt	PHs Rcvd	PHs Adj1	PHs Adj2	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	MB~320-66019/1 N/A	N/A		250 mL				N/A	N/A	N/A	Chlorine ND PH-7	MB 320-66019/1-A
				1.00 mL								
2	LCS~320-66019/2 N/A	N/A		250 mL				N/A	N/A	N/A	Chlorine ND PH-7	LCS 320-66019/2-A
				1.00 mL								
3	320-11699-A-1 (537)	DAS # R34467, SDG C0CF1	302.27 g	275.1 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-1-A
			27.22 g	1.00 mL								
4	320-11699-A-2 (537)	DAS # R34467, SDG C0CF1	306.37 g	278.6 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-2-A
			27.76 g	1.00 mL								
5	320-11699-A-3 (537)	DAS # R34467, SDG C0CF1	309.24 g	281.8 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-3-A
			27.43 g	1.00 mL								
6	320-11699-A-4 (537)	DAS # R34467, SDG C0CF1	265.75 g	221.4 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-4-A
			44.35 g	1.00 mL								
7	320-11699-A-5 (537)	DAS # R34467, SDG C0CF1	284.44 g	241.4 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-5-A
			43.05 g	1.00 mL								
8	320-11699-A-6 (537)	DAS # R34467, SDG C0CF1	284.28 g	243.4 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-6-A
			40.84 g	1.00 mL								
9	320-11699-A-7 (537)	DAS # R34467, SDG C0CF1	303.87 g	275.2 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-7-A
			28.72 g	1.00 mL								
10	320-11699-A-8 (537)	DAS # R34467, SDG C0CF1	308.42 g	281 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-8-A
			27.47 g	1.00 mL								

02/25/2015

Printed : 2/19/2015

TestAmerica Sacramento

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-66019

Analyst: Arauz, Horacio J

Method Code: 320-537_Prep-320

Batch Open: 2/19/2015 10:21:57AM

Batch End:

11	320-11699-A-9 (537)	DAS # R34467, SDG C0CF1	306.61 g	279.2 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-9-A
			27.42 g	1.00 mL								
12	320-11699-A-10 (537)	DAS # R34467, SDG C0CF1	300.82 g	273.6 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-10-A
			27.25 g	1.00 mL								
13	320-11699-A-11 (537)	DAS # R34467, SDG C0CF1	281.45 g	237.8 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-11-A
			43.61 g	1.00 mL								
14	320-11699-A-12 (537)	DAS # R34467, SDG C0CF1	279.04 g	235.5 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-12-A
			43.50 g	1.00 mL								
15	320-11699-A-13 (537)	DAS # R34467, SDG C0CF1	277.57 g	233.1 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-13-A
			44.45 g	1.00 mL								
16	320-11699-A-14 (537)	DAS # R34467, SDG C0CF1	274.80 g	230.9 mL				2/22/15	4_Days	4	Chlorine ND PH-7	320-11699-A-14-A
			43.86 g	1.00 mL								

Batch Notes

Batch Comment Trizma SLBF6022V; Cartridge Agilent 6234316-06; H2O 2-17-16; MeOH 393949

Comments

Login Comments for Job 11699: samples 1-3, 7-9 are FB

Printed : 2/19/2015

TestAmerica Sacramento

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-66019

Method Code: 320-537_Prep-320

Analyst: Arauz, Horacio J

Batch Open: 2/19/2015 10:21:57AM

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-66019/1	LC537-SU_00010	50 uL	1.00 mL	HJA 2-19-15	NBU 2/19/15
LCS 320-66019/2	LC537-HSP_00004	50 uL	1.00 mL		
LCS 320-66019/2	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-1	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-2	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-3	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-4	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-5	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-6	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-7	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-8	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-9	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-10	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-11	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-12	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-13	LC537-SU_00010	50 uL	1.00 mL		
320-11699-A-14	LC537-SU_00010	50 uL	1.00 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-66019

Analyst: Arauz, Horacio J

Batch Open: 2/19/2015 10:21:57AM

Method Code: 320-537_Prep-320

Batch End:

Other Reagents:

Reagent	Amount/Units	Lot#:
LC537-15_00008 1-2.87µg/ml	10ml spiked by: HJA 2-20-15	witnessed by: SNE 2/20/15
EXP: 8-12-15		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s): 320-66019 Test: 537-L

Earliest Holding Time: 3-3-15

Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
All necessary NCMs filed (including holding time)	✓	✓
Method/sample/login/QAS checked and correct	✓	✓
Worksheet Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All samples properly preserved	✓	✓
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and Cl Check)	✓	✓
The pH is transcribed correctly in TALS	✓	✓
All additional information transcribed into TALS is correct and raw data is attached	✓	✓
Comments are transcribed correctly in TALS	✓	✓
Reagents Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All necessary reagents not expired and entered into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Batch Information	**1st Level Reviewer**	**2nd Level Reviewer**
Date and time accurate and entered into TALS correctly	✓	✓
All necessary 'batch information' complete and entered into TALS correctly	✓	✓

1st Level Reviewer: HJA Date: 2-20-15

2nd Level Reviewer: SNE Date: 2/20/15

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Test America – West Sacramento

Sample Dilution Record

Method ID 320 - 537_Prep-320 Lot # 90285

Analyst (Print Name) John Strum Analyst Initials JSS

Date 2/23/15

Sample#	Original F.V. (uL)	Aliquot (uL)	Dilution F.V. (uL)	Dilution Factor
320-11699-4	1000	100	200	2x
320-11644-1		20	200	10x
320-11644-2		20	200	10x
320-11644-2 MS		20	200	10x
320-11644-2 MSD		20	200	10x
320-11644-5		20	100	5x
320-11644-6		20	100	5x
320-11644-7		20	200	10x

Comments:

Shipping and Receiving Documents

ED_001342_00001134-00298

Chain of Custody Record

Temperature on Receipt 1.6°C

Drinking Water? Yes ☐ No ☐

Tes THE LEAD

320-11644 Chain of Custody

TAL-4124 (1007)

Client: CT Male Associates	Project Manager: Dan Reilly	Date: 2/11/15	Chain of Custody Number: 266225
Address: 50 Century Hill Drive	Telephone Number (Area Code)/Fax Number: 518-786-7400 / 518-786-7299	Lab Number	Page 1 of 1
City: Latham; State: NY; Zip Code: 12110	Site Contact: Dan Reilly	Lab Contact: David Allfucker	
Project Name and Location (State): Village Hoosick Falls, NY	Carrier/Waybill Number: UPS Next Day Air 1Z15A0380153563934		
Contract/Purchase Order/Quote No.: 14.4756 / Dan Reilly			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Trizma	Analysis (Attach list if more space is needed): EPA 537	Special Instructions/ Conditions of Receipt
Finished Water	2/11/15	0939		X									2	X	
Well 7	2/11/15	1013		X									6	X	MS/MSD
Field Equipment Blank	2/11/15	1036		X									2	X	
Lab Trip Blanks	2/4/15	—		X									2	X	
Well 3	2/11/15	1059		X									2	X	
Well 10	2/11/15	1130		X									2	X	
Well 6	2/11/15	1129		X									2	X	

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

Sample Disposal: ☐ 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 10 DAY

QC Requirements (Specify): EPA Level 4 Deliverable

1. Relinquished By	Date: 2/12/15	Time: 1430	1. Received By: [signature]	Date: 2/12/15	Time: 1020
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

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

Login Sample Receipt Checklist

Client: CT Male Associates PC

Job Number: 320-11644-1

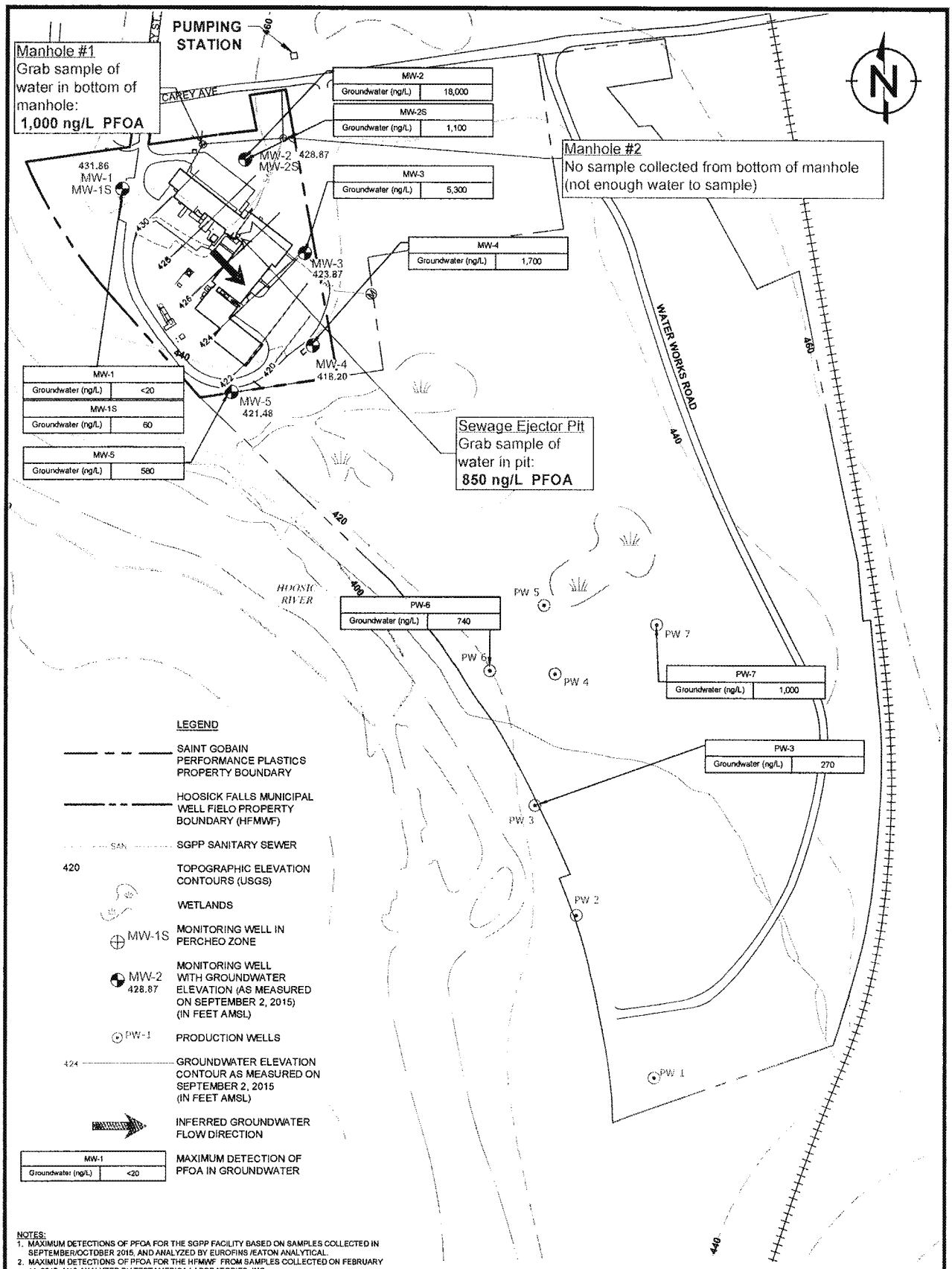
Login Number: 11644
List Number: 1
Creator: Nelson, Kym D

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.	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	

ED_001342_00001134-00300

B



NOTES:
1. MAXIMUM DETECTIONS OF PFOA FOR THE SGPP FACILITY BASED ON SAMPLES COLLECTED IN SEPTEMBER/OCTOBER 2015, AND ANALYZED BY EUROFINS /EATON ANALYTICAL.
2. MAXIMUM DETECTIONS OF PFOA FOR THE HFMWF FROM SAMPLES COLLECTED ON FEBRUARY 11, 2015, AND ANALYZED BY TESTAMERICA LABORATORIES, INC.

SOURCES:
1. C.T. MALE ASSOCIATES " MAP OF WELL FIELD VILLAGE OF HOOSICK FALLS", JANUARY 8, 2015.
2. 2013 USGS 7.5 MINUTE HOOSICK FALLS, NY TOPOGRAPHIC QUADRANGLE, MAP SCALE: 1:24,000.
3. "MAP OF VILLAGE WELL FIELD VICINITY", DEC. 18, 1995.
4. "GROUNDWATER INVESTIGATION LOCATION MAP", PREPARED BY DUNN GEOSCIENCE CORP., DATED MAY 14, 1981, MAP NO. 5747.

DRAFTED BY: KPM	DATE: 10/12/2015	**SEWER SAMPLING RESULTS , OCTOBER 27, 2015** SAINT GOBAIN PERFORMANCE PLASTICS McCAFFREY STREET PLANT HOOSICK FALLS, NY	FIGURE PROJECT: 0237128A