



**Groundwater Investigation Sample Results,
Level 2 Laboratory Report, Level 4 Laboratory Report,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Figure, SDG 1700296**

*Outlying Landing Field Coupeville
Naval Air Station Whidbey Island
Coupeville, Washington*

February 2019



March 14, 2017

Vista Work Order No. 1700296

Ms. Tiffany Hill
CH2M Hill
1100 NE Circle Blvd. Suite 300
Corvallis, OR 97330

Dear Ms. Hill,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on March 07, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'Navy Clean CTO-08'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

A handwritten signature in black ink that reads "Karen Lopez for".

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1700296

Case Narrative

Sample Condition on Receipt:

Eight groundwater samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

Modified EPA Method 537

All samples contained particulate and were centrifuged prior to extraction.

The aqueous samples were extracted and analyzed for PFBS, PFOA, and PFOS using Modified EPA Method 537.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

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

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

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1700296-01	WI-CV-GW08M-0317	04-Mar-17 12:00	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-02	WI-CV-EB12-030317	03-Mar-17 17:15	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-03	WI-CV-GW07S-0317	04-Mar-17 13:25	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-04	WI-CV-EB13-030417	04-Mar-17 14:30	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-05	WI-CV-GW14M-0317	04-Mar-17 17:00	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-06	WI-CV-GW13S-0317	03-Mar-17 17:05	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-07	WI-CV-GW07M-0317	04-Mar-17 17:15	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-08	WI-CV-EB14-030417	04-Mar-17 17:45	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

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

Matrix: Aqueous	QC Batch: B7C0034	Lab Sample: B7C0034-BLK1
Sample Size: 0.125 L	Date Extracted: 08-Mar-2017 8:40	Date Analyzed: 09-Mar-17 16:38 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.79	4.00	8.00		IS 13C3-PFBS	127	60 - 150	
PFOA	ND	0.651	2.00	8.00		IS 13C2-PFOA	89.3	60 - 150	
PFOS	ND	0.807	0.900	8.00		IS 13C8-PFOS	118	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: OPR

Modified EPA Method 537

Matrix: Aqueous Sample Size: 0.125 L	QC Batch: B7C0034 Date Extracted: 08-Mar-2017 8:40	Lab Sample: B7C0034-BS1 Date Analyzed: 09-Mar-17 16:13 Column: BEH C18					
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	81.9	80.0	102	60 - 130	IS 13C3-PFBS	107	60 - 150
PFOA	86.5	80.0	108	70 - 130	IS 13C2-PFOA	81.7	60 - 150
PFOS	88.6	80.0	111	70 - 130	IS 13C8-PFOS	108	60 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: WI-CV-GW08M-0317**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700296-01	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08	Sample Size:	0.128 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	04-Mar-2017 12:00				Date Analyzed:	09-Mar-17 16:51 Column: BEH C18			
Location:	MW-08M								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.74	3.91	7.79		IS 13C3-PFBS	117	60 - 150	
PFOA	ND	0.634	1.95	7.79		IS 13C2-PFOA	91.9	60 - 150	
PFOS	ND	0.786	0.879	7.79		IS 13C8-PFOS	110	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-EB12-030317**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700296-02	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08	Sample Size:	0.121 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	03-Mar-2017 17:15				Date Analyzed:	09-Mar-17 17:03 Column: BEH C18			
Location:	EB12								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.85	4.13	8.28		IS 13C3-PFBS	105	60 - 150	
PFOA	ND	0.674	2.07	8.28		IS 13C2-PFOA	81.9	60 - 150	
PFOS	ND	0.836	0.930	8.28		IS 13C8-PFOS	101	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-GW07S-0317**Modified EPA Method 537**

Client Data			Sample Data			Laboratory Data				
Name:	CH2M Hill		Matrix:	Groundwater		Lab Sample:	1700296-03	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08		Sample Size:	0.114 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	04-Mar-2017 13:25					Date Analyzed:	09-Mar-17 17:16 Column: BEH C18			
Location:	MW-07S									

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.97	4.39	8.81		IS 13C3-PFBS	112	60 - 150	
PFOA	ND	0.717	2.19	8.81		IS 13C2-PFOA	91.0	60 - 150	
PFOS	ND	0.889	0.987	8.81		IS 13C8-PFOS	123	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-EB13-030417**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700296-04	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08	Sample Size:	0.124 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	04-Mar-2017 14:30				Date Analyzed:	09-Mar-17 17:28 Column: BEH C18			
Location:	EB-13								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.81	4.03	8.08		IS 13C3-PFBS	101	60 - 150	
PFOA	ND	0.657	2.02	8.08		IS 13C2-PFOA	89.1	60 - 150	
PFOS	ND	0.815	0.907	8.08		IS 13C8-PFOS	107	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-GW14M-0317

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700296-05	Date Received:	07-Mar-2017 10:32
Project:	Navy Clean CTO-08	Sample Size:	0.123 L	QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40
Date Collected:	04-Mar-2017 17:00			Date Analyzed:	09-Mar-17 17:41	Column:	BEH C18
Location:	MW-14M						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	111	1.82	4.07	8.14		IS 13C3-PFBS	95.5	60 - 150	
PFOA	166	0.662	2.03	8.14		IS 13C2-PFOA	95.4	60 - 150	
PFOS	0.898	0.821	0.915	8.14	J	IS 13C8-PFOS	122	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-GW13S-0317**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700296-06	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08	Sample Size:	0.123 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	03-Mar-2017 17:05				Date Analyzed:	09-Mar-17 17:53 Column: BEH C18			
Location:	MW-13S								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.81	4.07	8.11		IS 13C3-PFBS	101	60 - 150	
PFOA	ND	0.660	2.03	8.11		IS 13C2-PFOA	89.4	60 - 150	
PFOS	ND	0.818	0.915	8.11		IS 13C8-PFOS	119	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-GW07M-0317**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700296-07	Date Received:	07-Mar-2017 10:32		
Project:	Navy Clean CTO-08	Sample Size:	0.128 L	QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40		
Date Collected:	04-Mar-2017 17:15			Date Analyzed:	09-Mar-17 18:06	Column:	BEH C18		
Location:	MW-07M								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.75	3.91	7.80		IS 13C3-PFBS	112	60 - 150	
PFOA	ND	0.635	1.95	7.80		IS 13C2-PFOA	90.0	60 - 150	
PFOS	0.844	0.787	0.879	7.80	J	IS 13C8-PFOS	124	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-EB14-030417**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700296-08	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08	Sample Size:	0.128 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	04-Mar-2017 17:45				Date Analyzed:	09-Mar-17 18:18 Column: BEH C18			
Location:	EB-14								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.75	3.91	7.82		IS 13C3-PFBS	110	60 - 150	
PFOA	ND	0.636	1.95	7.82		IS 13C2-PFOA	102	60 - 150	
PFOS	ND	0.789	0.879	7.82		IS 13C8-PFOS	114	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-004
Pennsylvania Department of Environmental Protection	012
South Carolina Department of Health	87002001
Texas Commission on Environmental Quality	T104704189-15-6
Virginia Department of General Services	7923
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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

NELAP Accredited Test Methods

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

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

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

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

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

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



CHAIN OF CUSTODY

For Laboratory Use Only
 Laboratory Project ID: 1700296 Temp: 5.7 °C
 Storage ID: WR-2 ES Storage Secured: Yes No

Project ID: Navy CLEAN CTD 08 P.O.#: 10006-7-10651 Sampler: B. Mentore, E. Bilcyk, M. Wither
679550.09.FI.WS (name)

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

Invoice to: Name Kathie TIPPIN Company CH2M Address _____ City _____ State _____ Ph# _____ Fax# _____
 Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) Sydney Roughton Date 3/7/17 Time 1034
 Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106
 Method of Shipment: FLA EX
 Tracking No.: _____
 ATTN: Sample Receiving

Quantity	Type	Matrix	Add Analysis(es) Requested															Comments
			2378-TCDD	2378-TCDF	PCDD/F CDF	2378-TCDD	2378-TCDF	PCDD/F CDF	2378-TCDD	2378-TCDF	PCDD/F CDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378-TCDF	PCDD/F CDF	2378-TCDD	2378-TCDF	PCDD/F CDF	2378-TCDD	2378-TCDF	PCDD/F CDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	Mod. EPA 537	Comments
WI-CV-GW08M-0317	3/4/17	1200	MW-08M	2	0	GW																X	
WI-CV-EB12-0317	3/3/17	1715	EB12	2	0	EB																X	
WI-CV-GW07S-0317	3/4/17	1325	WM-07S	2	0	GW																X	
WI-CV-EB13-0317	3/4/17	1430	EB-13	2	0	EB																X	
WI-CV-GW14M-0317	3/4/17	1700	MW-14M	2	0	GW																X	
WI-CV-GW13S-0317	3/3/17	1705	MW-13S	2	0	GW																X	
WI-CV-GW07M-0317	3/4/17	1715	MW-07M	2	0	GW																X	
WI-CV-EB14-0317	3/4/17	1745	EB-14	2	0	EB																X	

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: Tiffany Hill
 Company: CH2M
 Address: 1100 Circle Blvd NE
 City: Corvallis State: OR Zip: 97330
 Phone: _____ Fax: _____
 Email: tiffany.hill@ch2m.com

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700296 TAT 7

Samples Arrival:	Date/Time <u>3/7/17 1032</u>	Initials: <u>SR</u>	Location: <u>WR-2</u> Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time <u>03/07/17 1047</u>	Initials: <u>SRB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>E5</u>
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
Temp °C: <u>5.4</u> (uncorrected)	Time: <u>1036</u>	Thermometer ID: IR-1	
Temp °C: <u>5.7</u> (corrected)	Probe used: Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		

SR 3/7/17

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	✓		
Trk # <u>7858 1693 1746</u>			
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Preservation Documented:	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> NA
	<input type="radio"/> Na ₂ S ₂ O ₃	<input type="radio"/> Trizma	
Shipping Container	<input checked="" type="radio"/> Vista	<input type="radio"/> Client	<input type="radio"/> Retain
	<input type="radio"/> Return	<input type="radio"/> Dispose	

Comments:

March 14, 2017

Vista Work Order No. 1700296

Ms. Tiffany Hill
CH2M Hill
1100 NE Circle Blvd. Suite 300
Corvallis, OR 97330

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Thank you for choosing Vista as part of your analytical support team.

Sincerely,



Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1700296

Case Narrative

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Analytical Notes:

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1700296-01	WI-CV-GW08M-0317	04-Mar-17 12:00	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-02	WI-CV-EB12-030317	03-Mar-17 17:15	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-03	WI-CV-GW07S-0317	04-Mar-17 13:25	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-04	WI-CV-EB13-030417	04-Mar-17 14:30	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-05	WI-CV-GW14M-0317	04-Mar-17 17:00	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-06	WI-CV-GW13S-0317	03-Mar-17 17:05	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-07	WI-CV-GW07M-0317	04-Mar-17 17:15	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700296-08	WI-CV-EB14-030417	04-Mar-17 17:45	07-Mar-17 10:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

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

Matrix: Aqueous	QC Batch: B7C0034	Lab Sample: B7C0034-BLK1
Sample Size: 0.125 L	Date Extracted: 08-Mar-2017 8:40	Date Analyzed: 09-Mar-17 16:38 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.79	4.00	8.00		IS 13C3-PFBS	127	60 - 150	
PFOA	ND	0.651	2.00	8.00		IS 13C2-PFOA	89.3	60 - 150	
PFOS	ND	0.807	0.900	8.00		IS 13C8-PFOS	118	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: OPR

Modified EPA Method 537

Matrix: Aqueous Sample Size: 0.125 L	QC Batch: B7C0034 Date Extracted: 08-Mar-2017 8:40	Lab Sample: B7C0034-BS1 Date Analyzed: 09-Mar-17 16:13 Column: BEH C18					
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	81.9	80.0	102	60 - 130	IS 13C3-PFBS	107	60 - 150
PFOA	86.5	80.0	108	70 - 130	IS 13C2-PFOA	81.7	60 - 150
PFOS	88.6	80.0	111	70 - 130	IS 13C8-PFOS	108	60 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: WI-CV-GW08M-0317**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700296-01	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08	Sample Size:	0.128 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	04-Mar-2017 12:00				Date Analyzed:	09-Mar-17 16:51 Column: BEH C18			
Location:	MW-08M								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.74	3.91	7.79		IS 13C3-PFBS	117	60 - 150	
PFOA	ND	0.634	1.95	7.79		IS 13C2-PFOA	91.9	60 - 150	
PFOS	ND	0.786	0.879	7.79		IS 13C8-PFOS	110	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-EB12-030317**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700296-02	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08	Sample Size:	0.121 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	03-Mar-2017 17:15				Date Analyzed:	09-Mar-17 17:03 Column: BEH C18			
Location:	EB12								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.85	4.13	8.28		IS 13C3-PFBS	105	60 - 150	
PFOA	ND	0.674	2.07	8.28		IS 13C2-PFOA	81.9	60 - 150	
PFOS	ND	0.836	0.930	8.28		IS 13C8-PFOS	101	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-GW07S-0317**Modified EPA Method 537**

Client Data			Sample Data			Laboratory Data				
Name:	CH2M Hill		Matrix:	Groundwater		Lab Sample:	1700296-03	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08		Sample Size:	0.114 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	04-Mar-2017 13:25					Date Analyzed:	09-Mar-17 17:16 Column: BEH C18			
Location:	MW-07S									

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.97	4.39	8.81		IS 13C3-PFBS	112	60 - 150	
PFOA	ND	0.717	2.19	8.81		IS 13C2-PFOA	91.0	60 - 150	
PFOS	ND	0.889	0.987	8.81		IS 13C8-PFOS	123	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-EB13-030417**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700296-04	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08	Sample Size:	0.124 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	04-Mar-2017 14:30				Date Analyzed:	09-Mar-17 17:28 Column: BEH C18			
Location:	EB-13								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.81	4.03	8.08		IS 13C3-PFBS	101	60 - 150	
PFOA	ND	0.657	2.02	8.08		IS 13C2-PFOA	89.1	60 - 150	
PFOS	ND	0.815	0.907	8.08		IS 13C8-PFOS	107	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-GW14M-0317

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700296-05	Date Received:	07-Mar-2017 10:32
Project:	Navy Clean CTO-08	Sample Size:	0.123 L	QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40
Date Collected:	04-Mar-2017 17:00			Date Analyzed:	09-Mar-17 17:41	Column:	BEH C18
Location:	MW-14M						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	111	1.82	4.07	8.14		IS 13C3-PFBS	95.5	60 - 150	
PFOA	166	0.662	2.03	8.14		IS 13C2-PFOA	95.4	60 - 150	
PFOS	0.898	0.821	0.915	8.14	J	IS 13C8-PFOS	122	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-GW13S-0317**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700296-06	Date Received:	07-Mar-2017 10:32		
Project:	Navy Clean CTO-08	Sample Size:	0.123 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40		
Date Collected:	03-Mar-2017 17:05				Date Analyzed:	09-Mar-17 17:53 Column: BEH C18				
Location:	MW-13S									

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.81	4.07	8.11		IS 13C3-PFBS	101	60 - 150	
PFOA	ND	0.660	2.03	8.11		IS 13C2-PFOA	89.4	60 - 150	
PFOS	ND	0.818	0.915	8.11		IS 13C8-PFOS	119	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-GW07M-0317**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700296-07	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08	Sample Size:	0.128 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	04-Mar-2017 17:15				Date Analyzed:	09-Mar-17 18:06 Column: BEH C18			
Location:	MW-07M								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.75	3.91	7.80		IS 13C3-PFBS	112	60 - 150	
PFOA	ND	0.635	1.95	7.80		IS 13C2-PFOA	90.0	60 - 150	
PFOS	0.844	0.787	0.879	7.80	J	IS 13C8-PFOS	124	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-EB14-030417**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700296-08	Date Received:	07-Mar-2017 10:32	
Project:	Navy Clean CTO-08	Sample Size:	0.128 L		QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40	
Date Collected:	04-Mar-2017 17:45				Date Analyzed:	09-Mar-17 18:18 Column: BEH C18			
Location:	EB-14								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.75	3.91	7.82		IS 13C3-PFBS	110	60 - 150	
PFOA	ND	0.636	1.95	7.82		IS 13C2-PFOA	102	60 - 150	
PFOS	ND	0.789	0.879	7.82		IS 13C8-PFOS	114	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-004
Pennsylvania Department of Environmental Protection	012
South Carolina Department of Health	87002001
Texas Commission on Environmental Quality	T104704189-15-6
Virginia Department of General Services	7923
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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

NELAP Accredited Test Methods

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

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

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

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

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

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



CHAIN OF CUSTODY

For Laboratory Use Only

Laboratory Project ID: 1700296 Temp: 5.7 °C
 Storage ID: WR-2 E5 Storage Secured: Yes No

Project ID: Navy CLEAN CT08 P.O.#: 10006-7-10651 Sampler: B. Mentra
E. Bilkey
M. Withers
679550.09.FI.WS (name)

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

Invoice to: Name Kelsey TIPPIN Company CH2M Address _____ City _____ State _____ Ph# _____ Fax# _____
 Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) Sydney Roughton Date 3/7/17 Time 1034

Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

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

Method of Shipment: FLUX

Add Analysis(es) Requested

Container(s)

Tracking No.: _____

			EPA 1613				EPA 8280			EPA 8280			EPA 1668		EPA 1614	CARB-429		
Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	Mod. EPA 537

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	Mod. EPA 537	Comments	
WI-CV-GW08M-0312	3/4/17	1200	MW-08M	2	0	GW																	X	
WI-CV-EB12-030317	3/3/17	1715	EB12	2	0	GW																	X	
WI-CV-GW07S-0317	3/4/17	1325	WM-07S	2	0	GW																	X	
WI-CV-EB13-030417	3/4/17	1430	EB-13	2	0	GW																	X	
WI-CV-GW14M-0317	3/4/17	1700	MW-14M	2	0	GW																	X	
WI-CV-GW13S-0317	3/3/17	1705	MW-13S	2	0	GW																	X	
WI-CV-GW07M-0317	3/4/17	1715	MW-07M	2	0	GW																	X	
WI-CV-EB14-030417	3/4/17	1745	EB-14	2	0	O																	X	

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:
 Name: Tiffany Hill
 Company: CH2M
 Address: 1100 Circle Blvd NE
 City: Corvallis State: OR Zip: 97330
 Phone: _____ Fax: _____
 Email: tiffany.hill@ch2m.com

Container Types: A = 1 Liter Amber, G = Glass Jar
 P = HDPE. Work Order # 1700296 SMI 417P-

Bottle Preservation Type: T = Thiosulfate,
 TZ = Trizma: 60°C

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,
 SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other Page 20 of 200

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700296 TAT 7

Samples Arrival:	Date/Time <u>3/7/17 1032</u>	Initials: <u>SR</u>	Location: <u>WR-2</u> Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time <u>03/07/17 1047</u>	Initials: <u>SRB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>E5</u>
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
Temp °C: <u>5.4</u> (uncorrected)	Time: <u>1036</u>	Thermometer ID: IR-1	
Temp °C: <u>5.7</u> (corrected)	Probe used: Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		

SR 3/7/17

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	✓		
Trk # <u>7858 1693 1746</u>			
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Preservation Documented:	Yes	<input checked="" type="radio"/> No	NA
	<u>Vista</u>	Trizma	
Shipping Container	<input type="radio"/> Vista	<input type="radio"/> Client	<input type="radio"/> Retain
	<input type="radio"/> Return	<input type="radio"/> Dispose	

Comments:

EXTRACTION INFORMATION

Process Sheet
Workorder: 1700296



Prep Expiration: 2017-Mar-17
Client: CH2M Hill

Workorder Due: 14-Mar-17 00:00

TAT: 7

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

Prep Batch: BFC0034

Prep Data Entered: 3/9/17 ZAC
Date and Initials

Version: PFOA, PFOS, PFBS

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1700296-01	<input checked="" type="checkbox"/>	WI-CV-GW08M-0317	07-Mar-17 10:32	WR-2 E-5	
1700296-02	<input checked="" type="checkbox"/>	WI-CV-EB12-030317	07-Mar-17 10:32	WR-2 E-5	
1700296-03	<input checked="" type="checkbox"/>	WI-CV-GW07S-0317	07-Mar-17 10:32	WR-2 E-5	
1700296-04	<input checked="" type="checkbox"/>	WI-CV-EB13-030417	07-Mar-17 10:32	WR-2 E-5	
1700296-05	<input checked="" type="checkbox"/>	WI-CV-GW14M-0317	07-Mar-17 10:32	WR-2 E-5	
1700296-06	<input checked="" type="checkbox"/>	WI-CV-GW13S-0317	07-Mar-17 10:32	WR-2 E-5	
1700296-07	<input checked="" type="checkbox"/>	WI-CV-GW07M-0317	07-Mar-17 10:32	WR-2 E-5	
1700296-08	<input checked="" type="checkbox"/>	WI-CV-EB14-030417	07-Mar-17 10:32	WR-2 E-5	

Vista PM: Martha Maier

Vial Box ID: Carthagen

Sample Reconciled By: [Signature] 3/8/17

Percent Solids



Project: B7C0034

Balance ID: N/A

Sample ID	Chemist: <u>N/A</u> Date: <u> </u> Time: <u> </u>		Chemist: <u>N/A</u> Date: <u> </u> Time: <u> </u>		Chemist/Date <u>JK</u> <u>3/8/17</u>	
	Boat Wt.	Sample + Boat Wt.	Residue + Boat Wt.	pH before	pH* after	CF
1700296-01 [ⓑ]				7	2	ⓐ
<u>JK Hc 3/8/17</u>				N/A	N/A	N/A
1700296-02 [ⓐ]				5	2	ⓐ
-03 [ⓑ]				7	2	ⓐ
-04 [ⓐ]				5	2	ⓐ
-05 [ⓑ]				7	2	ⓐ
-06 [ⓑ]				7	2	ⓐ
-07 [ⓑ]				7	2	ⓐ
-08 [ⓐ]				5	2	ⓐ
1700298-01 [ⓐ]				7	2	ⓐ

Procedure:

- Tare the balance.
- Record Boat Weight.
- Add 2 - 10 g of sample.
- Record Wet Wt. + Boat Wt.
- Dry in oven overnight at 107°C.
- Tare the balance.
- Record Residue + Boat Wt.

Notes:

- ⓐ 2 dropps HCl to adjust pH to 2.0
- ⓑ 3 dropps HCl to adjust pH to 2.0
- ⓒ 6 dropps HCl to adjust pH 2

Hc 3/8/17

- Methods 8280, 613, 1613, 8290, 1614 - pH < 9
- Methods 1668/PCN - pH 2-3
- NCASI 551 - pH 1

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537 PFAS

Method: 537 PFAS DOD (LOO as mRL)

B7C0034

Chemist: E. Schneider

Prep Date/Time: 08-Mar-17 08:40

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	B7C0034-BLK1 (A)	N/A	N/A	(0.250) 0.125	ES HC 3/8/17	HC 3/8/17	ES HC 3/8/17
<input type="checkbox"/>	B7C0034-BSI (A)	↓	↓	↓ 0.125			
<input type="checkbox"/>	1700296-01 (B)	155.27	26.97	0.1283 ✓	↓	↓	↓
<input type="checkbox"/>	1700296-02	147.48	26.77	0.12071			
<input type="checkbox"/>	1700296-03	140.31	26.78	0.11353			
<input type="checkbox"/>	1700296-04	150.78	26.97	0.12381			
<input type="checkbox"/>	1700296-05	149.81	26.93	0.12288			
<input type="checkbox"/>	1700296-06	150.14	26.78	0.12396			
<input type="checkbox"/>	1700296-07	155.02	26.87	0.12815			
<input type="checkbox"/>	1700296-08	154.62	26.75	0.12787			
<input type="checkbox"/>	1700298-01	237.95	27.40	0.21055			

(A) 0.625g trizma added to QCs HC 3/8/17

(B) centrifuged samples to remove gelatinous substance HC 3/8/17

IS Name	NS Name	RS Name	SPE Chem	Check Out: Chemist/Date
16L1920, 10µl (V3)	16I2905, 10µl (V2)	17A1201, 10µl (V3)	Strata XAW 33µm 200mg Ele SOLV: 0.5% NH4OH in MeOH + MeOH Final Volume(s) 1 mL	3/8/17 N/A HRMS-8

Comments: Assume 1 g = 1 mL

SAMPLE DATA – MODIFIED EPA METHOD 537

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-6.qld

Last Altered: Tuesday, March 14, 2017 10:57:00 Pacific Daylight Time

Printed: Tuesday, March 14, 2017 10:57:24 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 12:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 09:35:26

ID: B7C0034-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170309G2_6, Date: 09-Mar-2017, Time: 16:38:38

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	4.079e0	6.326e3		0.125	3.00		
2	2 PFHpA	363 > 318.9	2.743e1	1.448e4		0.125	3.89		
3	3 PFHxS	398.9 > 79.6	2.611e1	6.570e3		0.125	4.00		
4	4 PFOA	413 > 368.7	1.963e2	2.815e4		0.125	4.28		
5	5 PFNA	463 > 418.8		7.611e3		0.125			
6	6 PFOS	499 > 79.9		8.918e3		0.125			
7	7 13C3-PFBS	302.0 > 98.8	6.326e3	1.216e4	0.410	0.125	2.99	127	127
8	8 13C4-PFHpA	367.2 > 321.8	1.448e4	1.216e4	1.098	0.125	3.88	109	109
9	9 18O2-PFHxS	403 > 102.6	6.570e3	1.216e4	0.434	0.125	4.00	124	124
10	10 13C2-PFOA	414.9 > 369.7	2.815e4	6.836e3	4.608	0.125	4.28	89.3	89.3
11	11 13C5-PFNA	468.2 > 422.9	7.611e3	8.256e3	0.867	0.125	4.61	106	106
12	12 13C8-PFOS	507.0 > 79.9	8.918e3	7.866e3	0.958	0.125	4.67	118	118
13	13 13C5-PFHxA	318>272.9	2.215e4	2.215e4	1.000	0.125	3.37	100	100
14	14 13C3-PFHxS	401.9 > 79.9	1.216e4	1.216e4	1.000	0.125	4.00	100	100
15	15 13C8-PFOA	421.3 > 376	6.836e3	6.836e3	1.000	0.125	4.28	100	100
16	16 13C9-PFNA	472.2 > 426.9	8.256e3	8.256e3	1.000	0.125	4.61	100	100
17	17 13C4-PFOS	503.0 > 79.9	7.866e3	7.866e3	1.000	0.125	4.68	100	100
18	18 Total PFBS	299 > 79.7		6.570e3		0.125			
19	19 Total PFHxS	398.9 > 79.6		6.570e3		0.125			
20	20 Total PFOA	413 > 368.7		2.815e4		0.125			
21	21 Total PFOS	499 > 79.9		8.918e3		0.125			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-6.qld

Last Altered: Tuesday, March 14, 2017 10:57:00 Pacific Daylight Time

Printed: Tuesday, March 14, 2017 10:57:24 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 12:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 09:35:26

ID: B7C0034-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170309G2_6, Date: 09-Mar-2017, Time: 16:38:38

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	18 Total PFBS	299 > 79.7	3.00	4.079	6569.784	
2	1 PFBS	299 > 79.7	3.00	4.079	6325.771	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFHxS	398.9 > 79.6	4.00	26.106	6569.784	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	196.284	28145.277	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1						

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-6.qld

Last Altered: Tuesday, March 14, 2017 10:57:00 Pacific Daylight Time

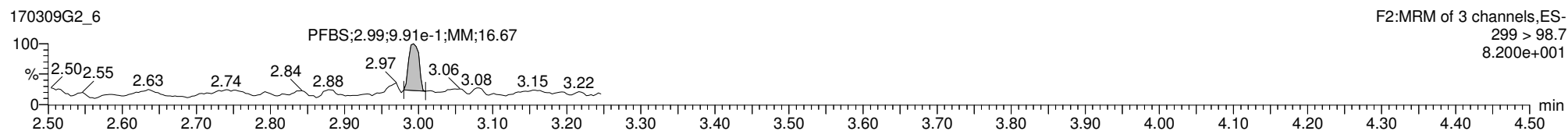
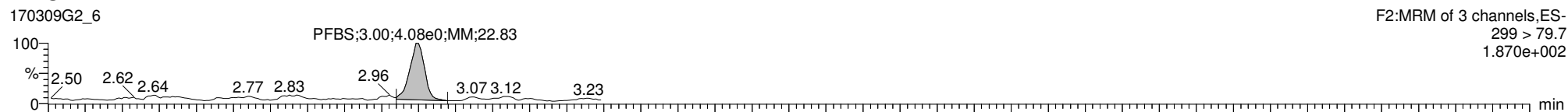
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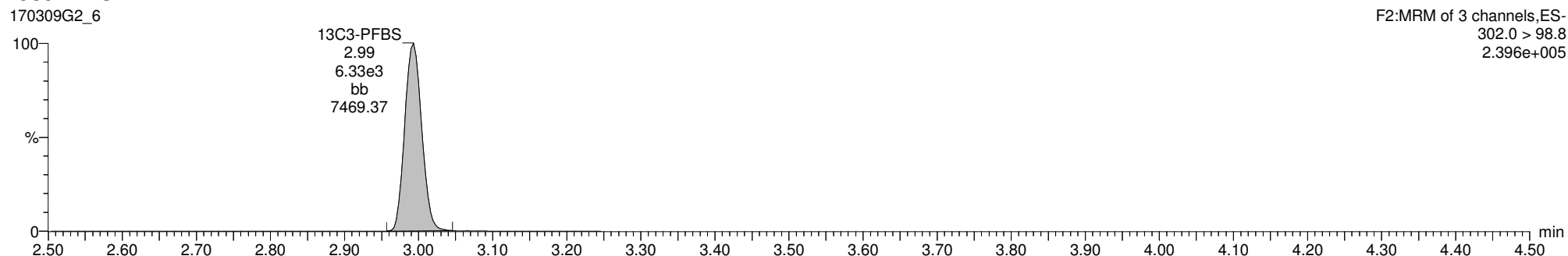
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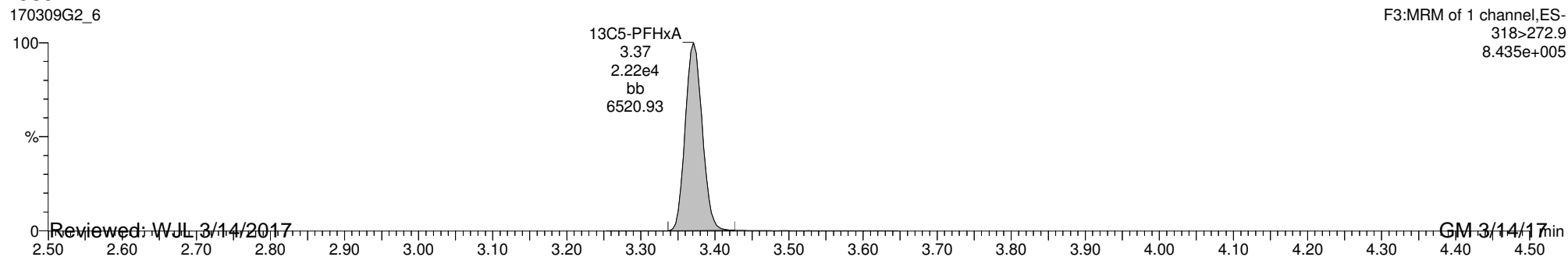
PFBS



13C3-PFBS



13C5-PFHxA



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-6.qld

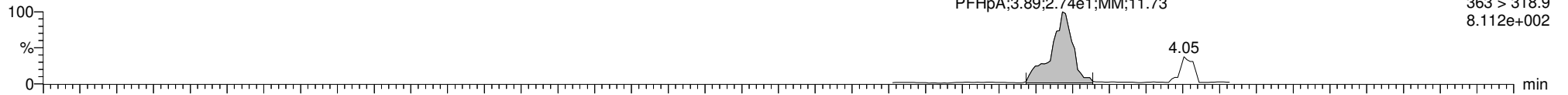
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Printed: Tuesday, March 14, 2017 10:57:24 Pacific Daylight Time

ID: B7C0034-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170309G2_6, Date: 09-Mar-2017, Time: 16:38:38, Instrument: , Lab: , User:

PFHpA

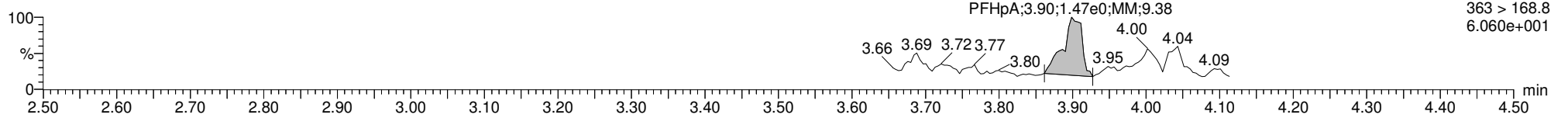
170309G2_6

F4:MRM of 7 channels,ES-
363 > 318.9
8.112e+002



170309G2_6

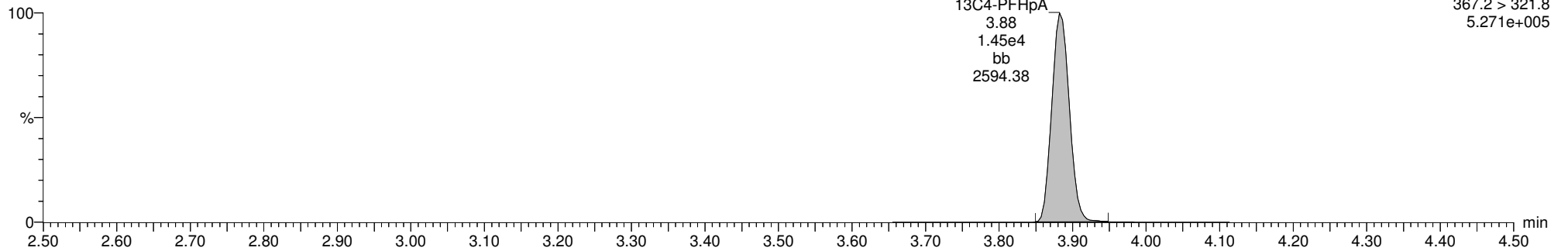
F4:MRM of 7 channels,ES-
363 > 168.8
6.060e+001



13C4-PFHpA

170309G2_6

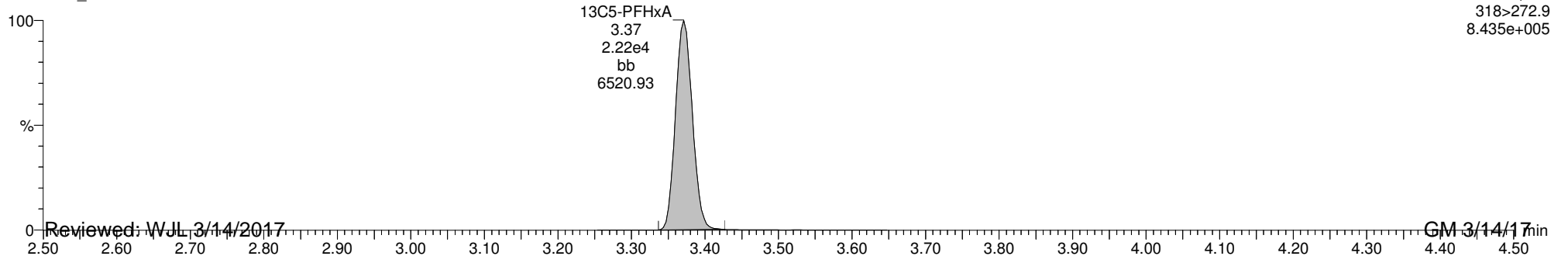
F4:MRM of 7 channels,ES-
367.2 > 321.8
5.271e+005



13C5-PFHxA

170309G2_6

F3:MRM of 1 channel,ES-
318>272.9
8.435e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

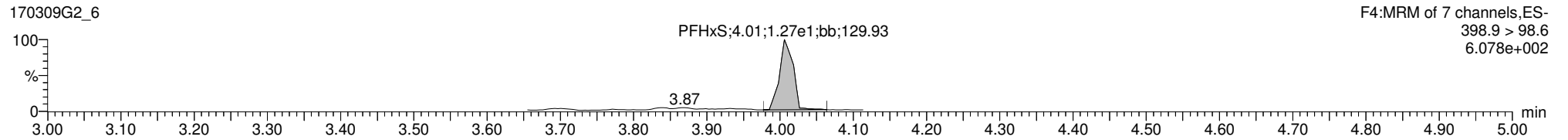
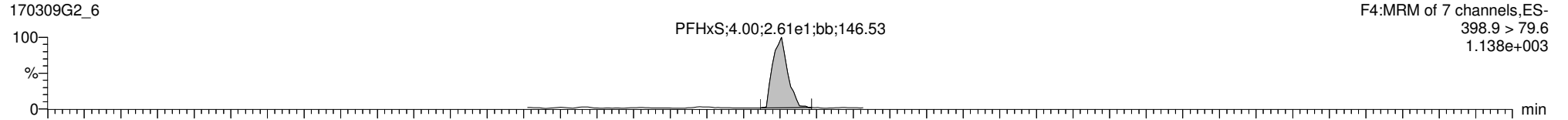
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Last Altered: Tuesday, March 14, 2017 10:57:00 Pacific Daylight Time

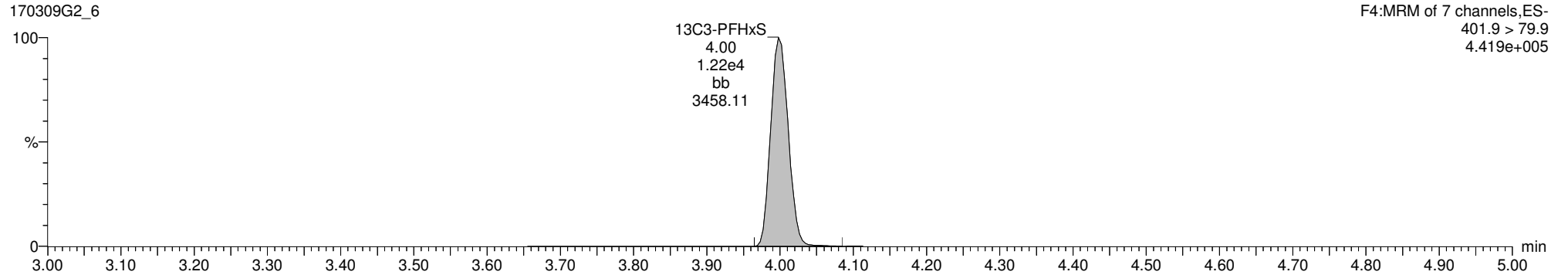
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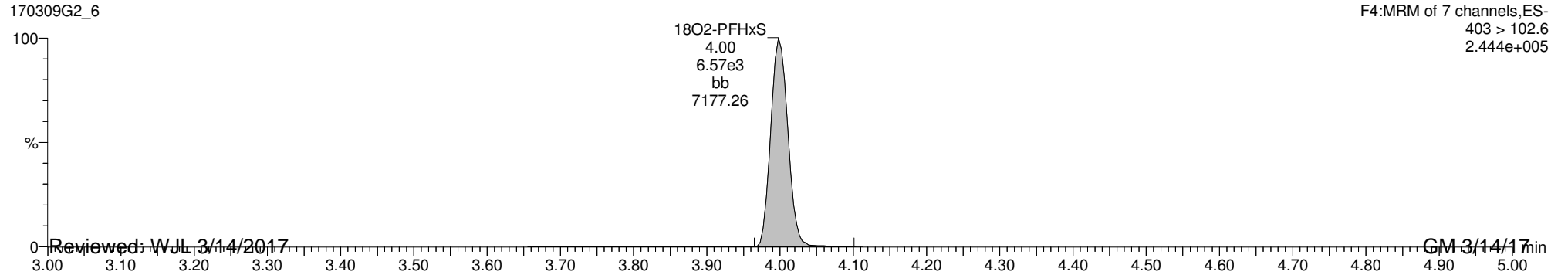
Total PFHxS



13C3-PFHxS



18O2-PFHxS



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-6.qld

Last Altered: Tuesday, March 14, 2017 10:57:00 Pacific Daylight Time

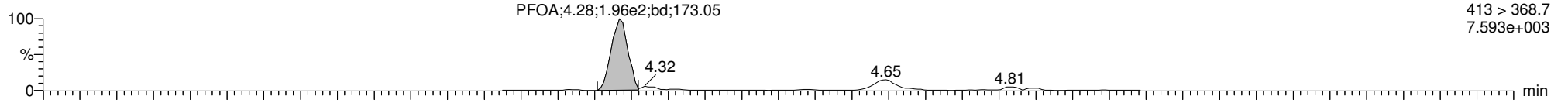
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Total PFOA

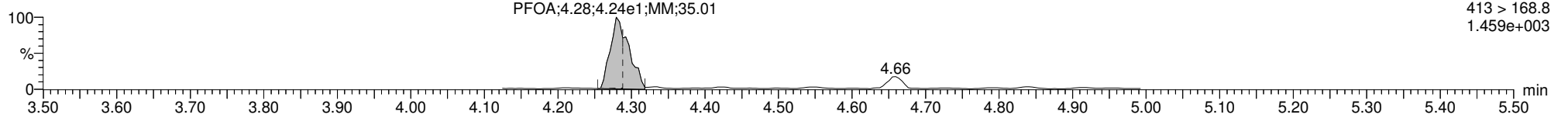
170309G2_6

F5:MRM of 12 channels,ES-
413 > 368.7
7.593e+003



170309G2_6

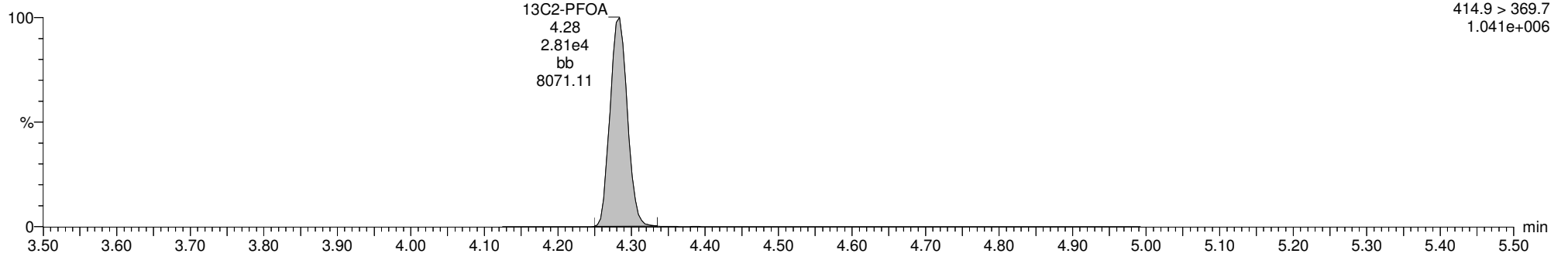
F5:MRM of 12 channels,ES-
413 > 168.8
1.459e+003



13C2-PFOA

170309G2_6

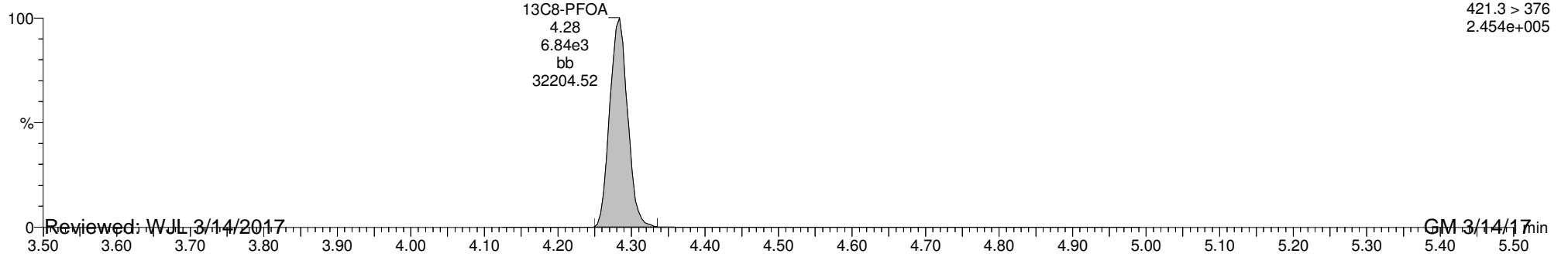
F5:MRM of 12 channels,ES-
414.9 > 369.7
1.041e+006



13C8-PFOA

170309G2_6

F5:MRM of 12 channels,ES-
421.3 > 376
2.454e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-6.qld

Last Altered: Tuesday, March 14, 2017 10:57:00 Pacific Daylight Time

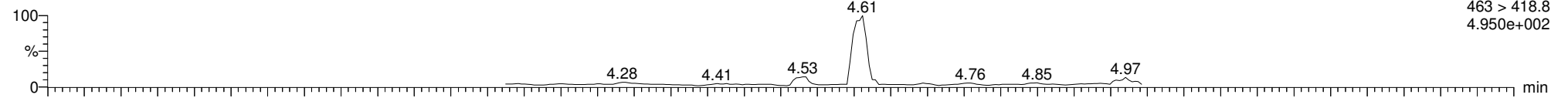
Printed: Tuesday, March 14, 2017 10:57:24 Pacific Daylight Time

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PFNA

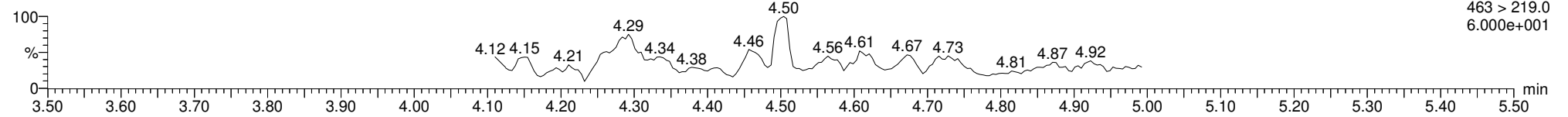
170309G2_6

F5:MRM of 12 channels,ES-
463 > 418.8
4.950e+002



170309G2_6

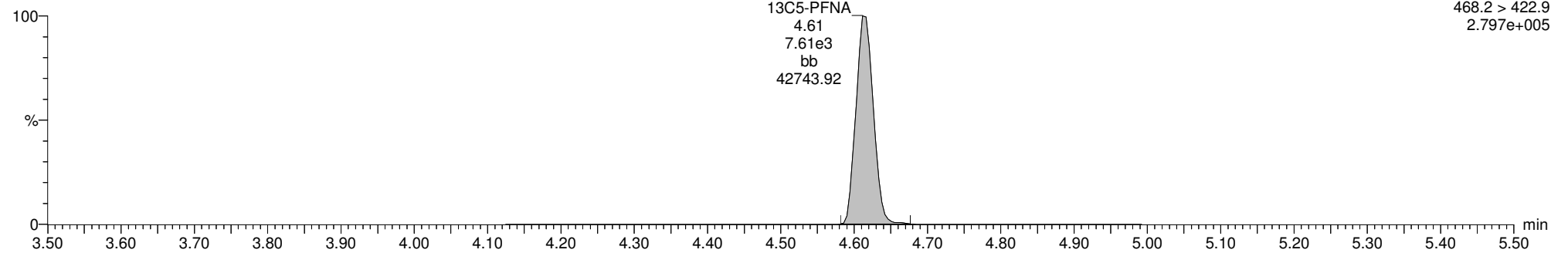
F5:MRM of 12 channels,ES-
463 > 219.0
6.000e+001



13C5-PFNA

170309G2_6

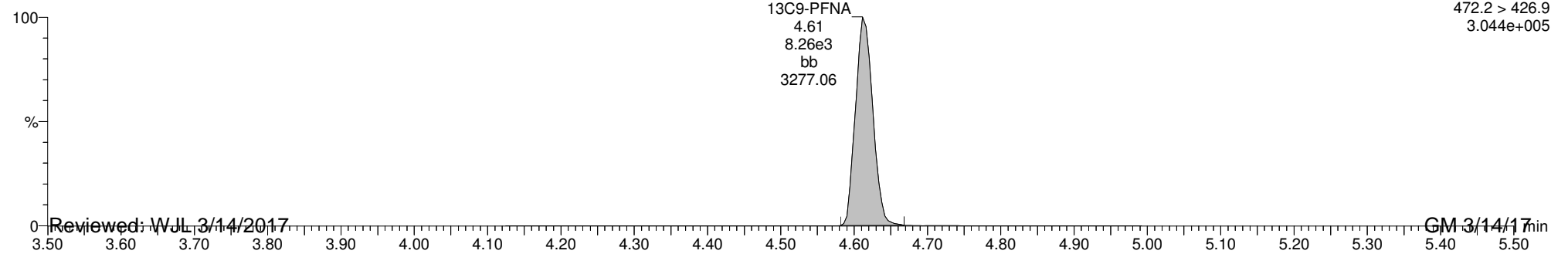
F5:MRM of 12 channels,ES-
468.2 > 422.9
2.797e+005



13C9-PFNA

170309G2_6

F5:MRM of 12 channels,ES-
472.2 > 426.9
3.044e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-6.qld

Last Altered: Tuesday, March 14, 2017 10:57:00 Pacific Daylight Time

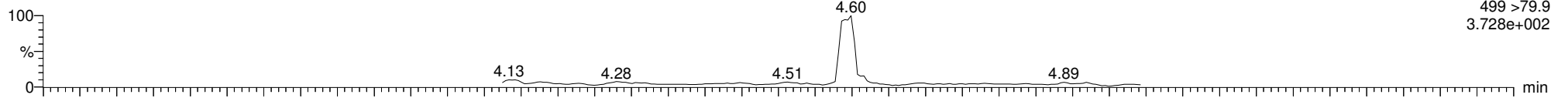
Printed: Tuesday, March 14, 2017 10:57:24 Pacific Daylight Time

ID: B7C0034-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170309G2_6, Date: 09-Mar-2017, Time: 16:38:38, Instrument: , Lab: , User:

Total PFOS

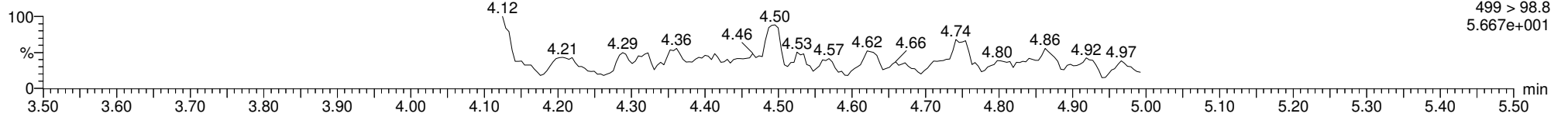
170309G2_6

F5:MRM of 12 channels,ES-
499 >79.9
3.728e+002



170309G2_6

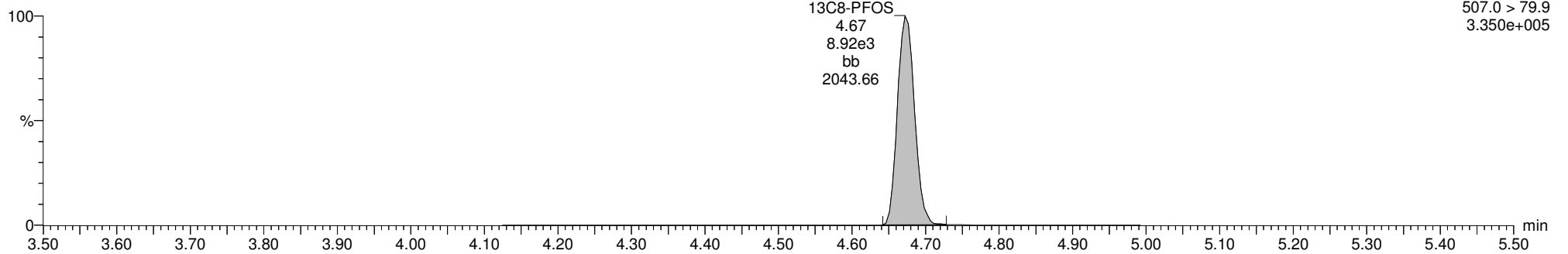
F5:MRM of 12 channels,ES-
499 > 98.8
5.667e+001



13C8-PFOS

170309G2_6

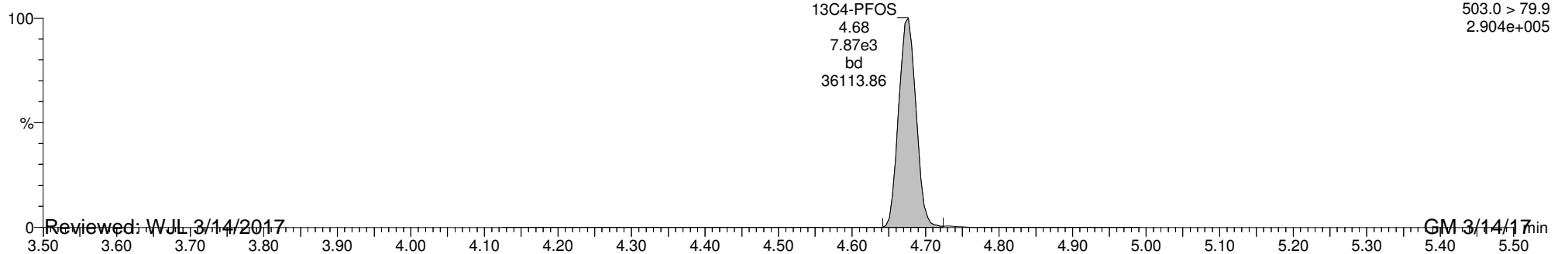
F5:MRM of 12 channels,ES-
507.0 > 79.9
3.350e+005



13C4-PFOS

170309G2_6

F5:MRM of 12 channels,ES-
503.0 > 79.9
2.904e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-4.qld

Last Altered: Tuesday, March 14, 2017 10:49:02 Pacific Daylight Time

Printed: Tuesday, March 14, 2017 10:50:39 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 12:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 09:35:26

ID: B7C0034-BS1 OPR 0.125, Description: OPR, Name: 170309G2_4, Date: 09-Mar-2017, Time: 16:13:33

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.240e4	6.338e3		0.125	2.99	81.9	102
2	2 PFHpA	363 > 318.9	2.418e4	1.638e4		0.125	3.88	81.5	102
3	3 PFHxS	398.9 > 79.6	9.937e3	7.001e3		0.125	4.00	77.8	97.3
4	4 PFOA	413 > 368.7	2.127e4	3.032e4		0.125	4.28	86.5	108
5	5 PFNA	463 > 418.8	1.748e4	8.372e3		0.125	4.61	76.0	95.0
6	6 PFOS	499 > 79.9	4.143e3	8.764e3		0.125	4.67	88.6	111
7	7 13C3-PFBS	302.0 > 98.8	6.338e3	1.451e4	0.410	0.125	2.99	107	107
8	8 13C4-PFHpA	367.2 > 321.8	1.638e4	1.451e4	1.098	0.125	3.88	103	103
9	9 18O2-PFHxS	403 > 102.6	7.001e3	1.451e4	0.434	0.125	4.00	111	111
10	10 13C2-PFOA	414.9 > 369.7	3.032e4	8.057e3	4.608	0.125	4.28	81.7	81.7
11	11 13C5-PFNA	468.2 > 422.9	8.372e3	8.979e3	0.867	0.125	4.61	108	108
12	12 13C8-PFOS	507.0 > 79.9	8.764e3	8.467e3	0.958	0.125	4.67	108	108
13	13 13C5-PFHxA	318>272.9	2.252e4	2.252e4	1.000	0.125	3.37	100	100
14	14 13C3-PFHxS	401.9 > 79.9	1.451e4	1.451e4	1.000	0.125	4.00	100	100
15	15 13C8-PFOA	421.3 > 376	8.057e3	8.057e3	1.000	0.125	4.28	100	100
16	16 13C9-PFNA	472.2 > 426.9	8.979e3	8.979e3	1.000	0.125	4.61	100	100
17	17 13C4-PFOS	503.0 > 79.9	8.467e3	8.467e3	1.000	0.125	4.67	100	100
18	18 Total PFBS	299 > 79.7		7.001e3		0.125		81.9	
19	19 Total PFHxS	398.9 > 79.6		7.001e3		0.125		77.8	
20	20 Total PFOA	413 > 368.7		3.032e4		0.125		86.5	
21	21 Total PFOS	499 > 79.9		8.764e3		0.125		88.6	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-4.qld

Last Altered: Tuesday, March 14, 2017 10:49:02 Pacific Daylight Time

Printed: Tuesday, March 14, 2017 10:50:39 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 12:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 09:35:26

ID: B7C0034-BS1 OPR 0.125, Description: OPR, Name: 170309G2_4, Date: 09-Mar-2017, Time: 16:13:33

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1	1 PFBS	299 > 79.7	2.99	12400.189	6338.477	81.9

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFHxS	398.9 > 79.6	4.00	9937.394	7000.535	77.8

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	20 Total PFOA	413 > 368.7	4.66	59.737	30316.322	
2	20 Total PFOA	413 > 368.7	4.54	5.196	30316.322	
3	20 Total PFOA	413 > 368.7	4.45	14.105	30316.322	
4	20 Total PFOA	413 > 368.7	4.39	18.677	30316.322	
5	4 PFOA	413 > 368.7	4.28	21269.826	30316.322	86.5
6	20 Total PFOA	413 > 368.7	4.19	6.076	30316.322	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1	6 PFOS	499 > 79.9	4.67	4142.626	8764.335	88.6

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-4.qld

Last Altered: Tuesday, March 14, 2017 10:49:02 Pacific Daylight Time

Printed: Tuesday, March 14, 2017 10:50:39 Pacific Daylight Time

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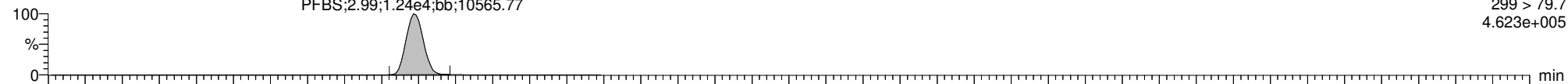
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PFBS

170309G2_4

PFBS;2.99;1.24e4;bb;10565.77

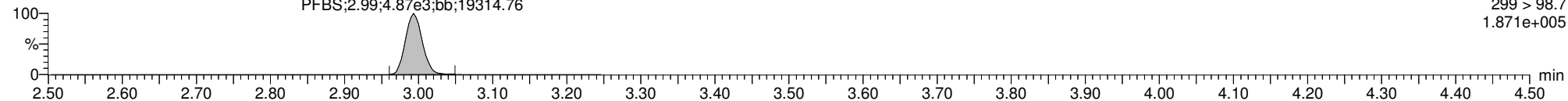
F2:MRM of 3 channels,ES-
299 > 79.7
4.623e+005



170309G2_4

PFBS;2.99;4.87e3;bb;19314.76

F2:MRM of 3 channels,ES-
299 > 98.7
1.871e+005

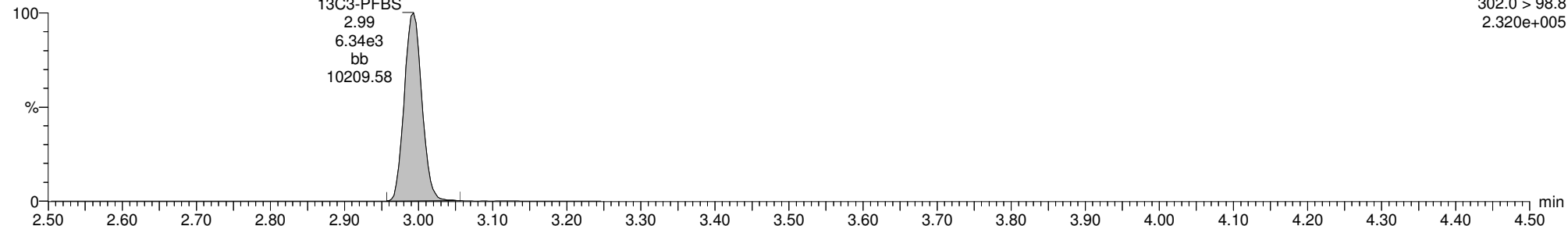


13C3-PFBS

170309G2_4

13C3-PFBS
2.99
6.34e3
bb
10209.58

F2:MRM of 3 channels,ES-
302.0 > 98.8
2.320e+005

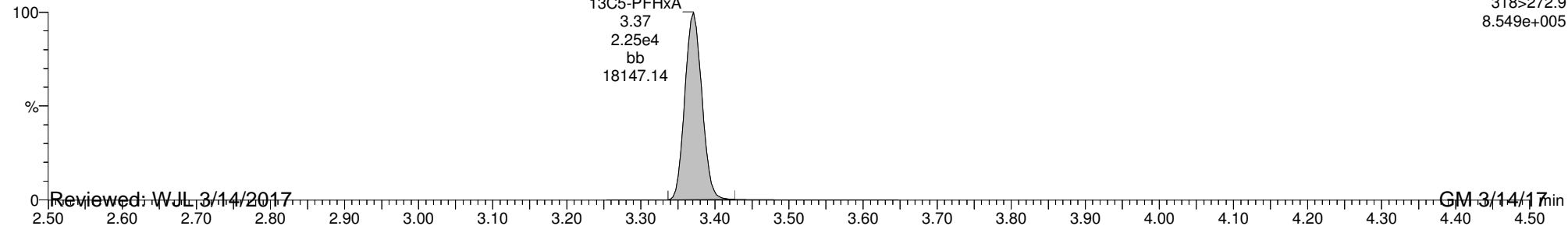


13C5-PFHxA

170309G2_4

13C5-PFHxA
3.37
2.25e4
bb
18147.14

F3:MRM of 1 channel,ES-
318>272.9
8.549e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-4.qld

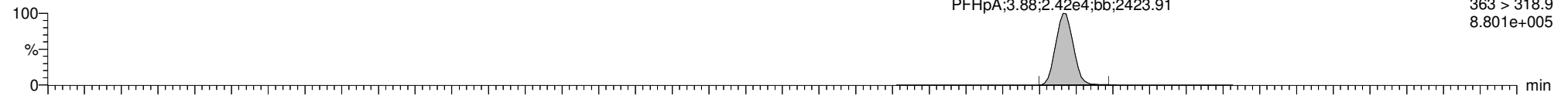
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Printed: Tuesday, March 14, 2017 10:50:39 Pacific Daylight Time

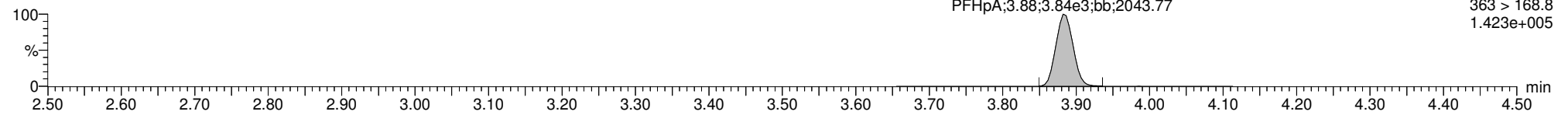
ID: B7C0034-BS1 OPR 0.125, Description: OPR, Name: 170309G2_4, Date: 09-Mar-2017, Time: 16:13:33, Instrument: , Lab: , User:

PFHpA

170309G2_4

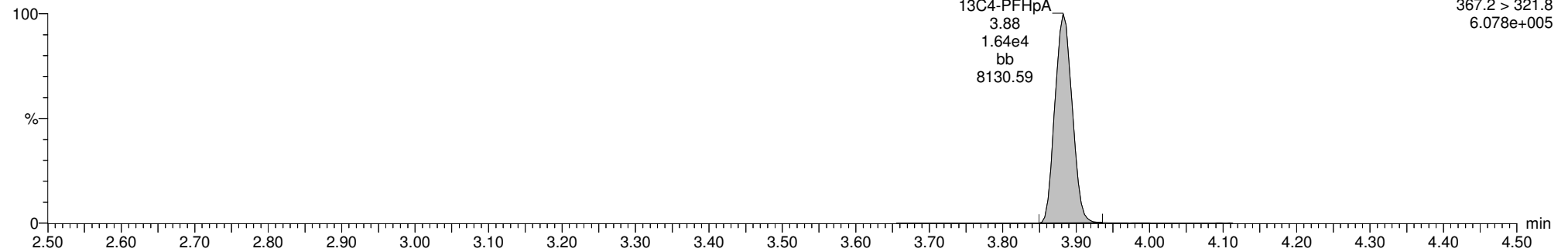


170309G2_4



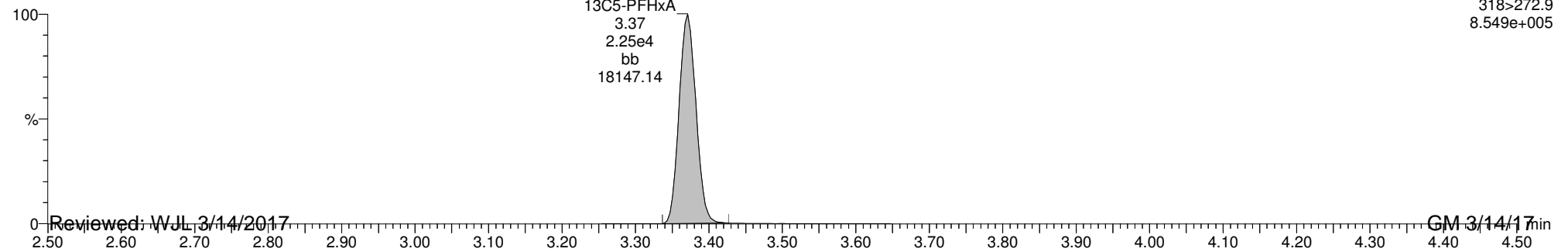
13C4-PFHpA

170309G2_4



13C5-PFHxA

170309G2_4



Reviewed: WJL 3/14/2017

GM 3/14/17

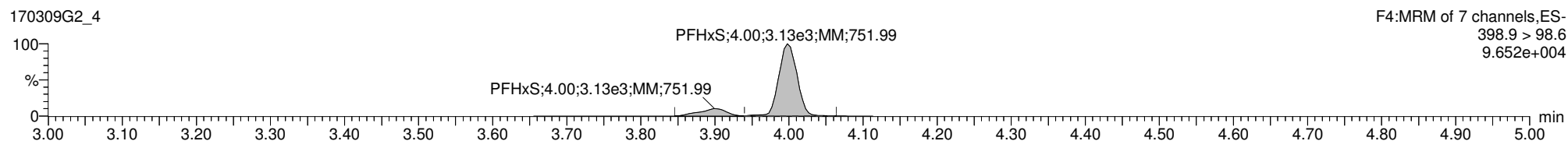
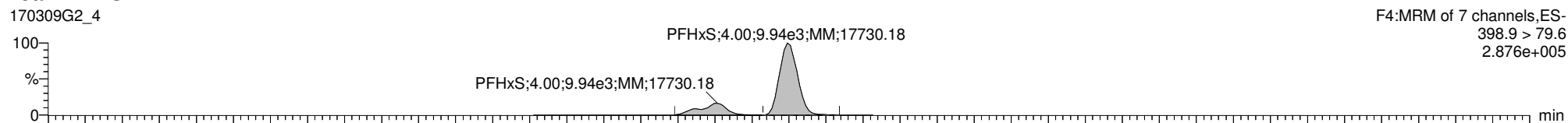
Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-4.qld

Last Altered: Tuesday, March 14, 2017 10:49:02 Pacific Daylight Time

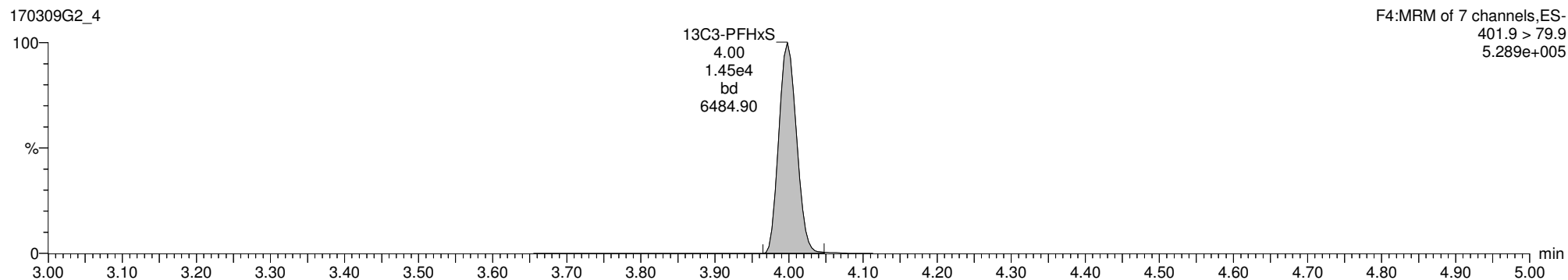
Printed: Tuesday, March 14, 2017 10:50:39 Pacific Daylight Time

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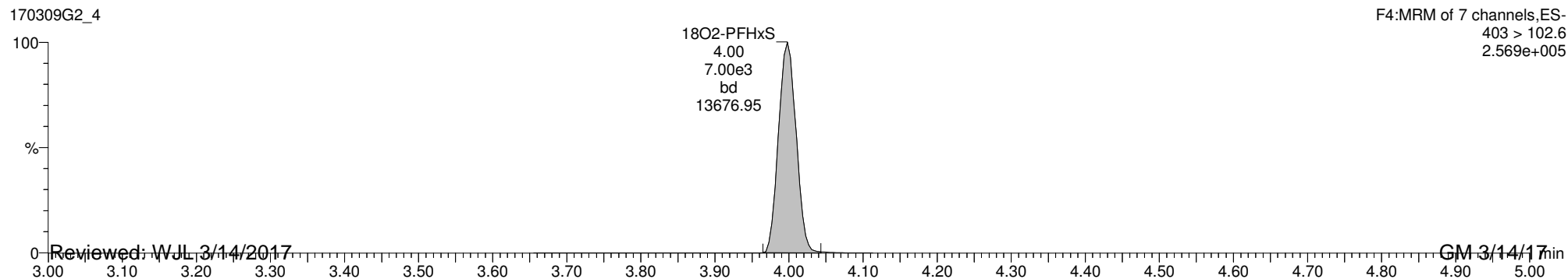
Total PFHxS



13C3-PFHxS



18O2-PFHxS



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-4.qld

Last Altered: Tuesday, March 14, 2017 10:49:02 Pacific Daylight Time

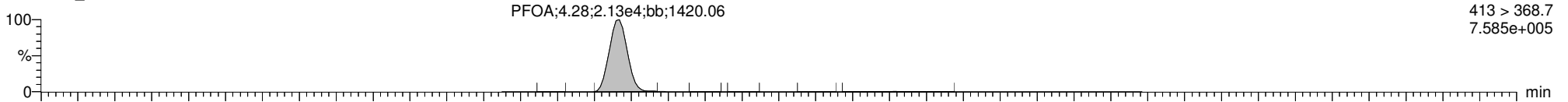
Printed: Tuesday, March 14, 2017 10:50:39 Pacific Daylight Time

ID: B7C0034-BS1 OPR 0.125, Description: OPR, Name: 170309G2_4, Date: 09-Mar-2017, Time: 16:13:33, Instrument: , Lab: , User:

Total PFOA

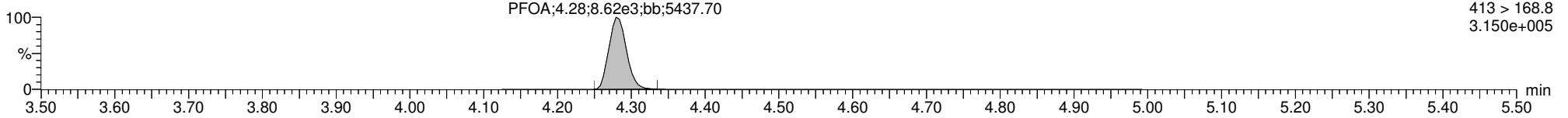
170309G2_4

F5:MRM of 12 channels,ES-
413 > 368.7
7.585e+005



170309G2_4

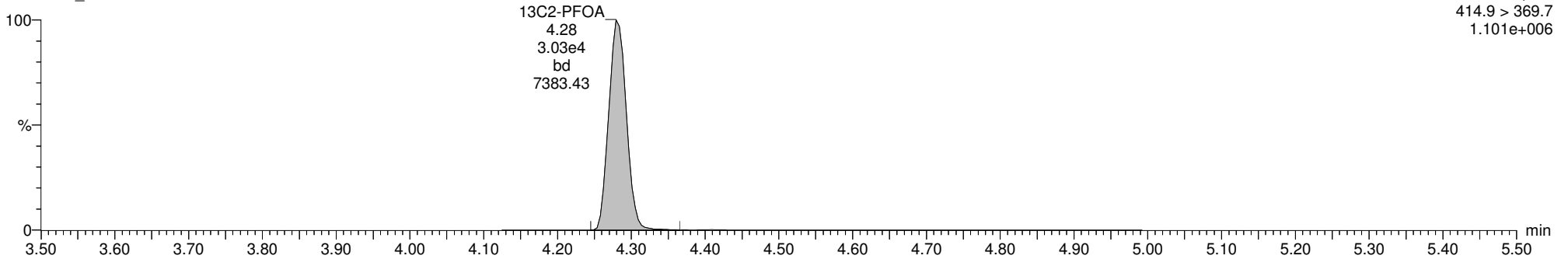
F5:MRM of 12 channels,ES-
413 > 168.8
3.150e+005



13C2-PFOA

170309G2_4

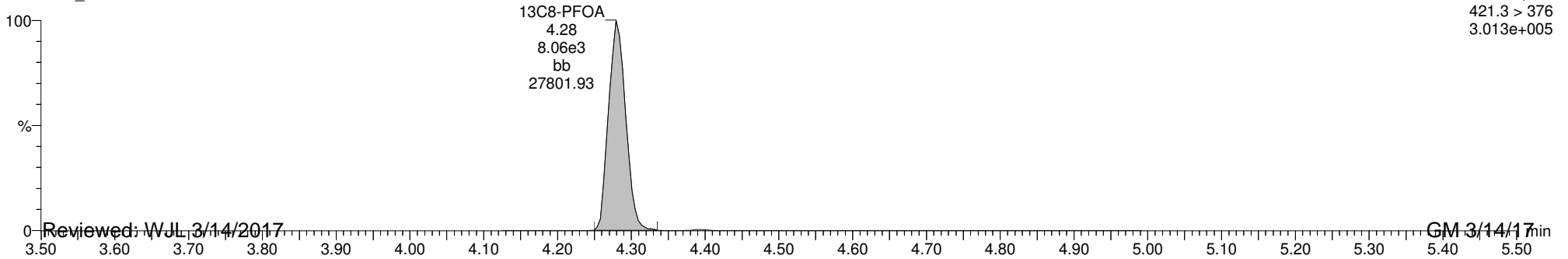
F5:MRM of 12 channels,ES-
414.9 > 369.7
1.101e+006



13C8-PFOA

170309G2_4

F5:MRM of 12 channels,ES-
421.3 > 376
3.013e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-4.qld

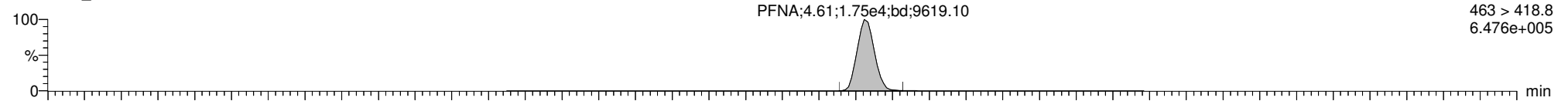
Last Altered: Tuesday, March 14, 2017 10:49:02 Pacific Daylight Time

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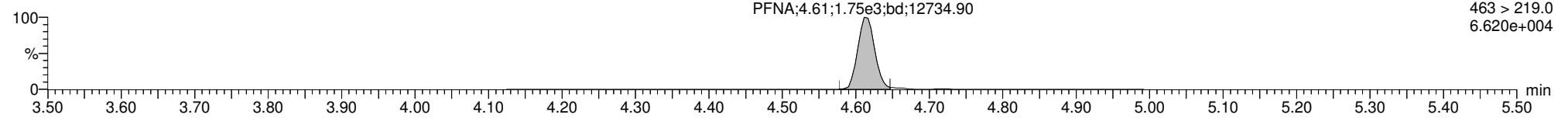
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PFNA

170309G2_4

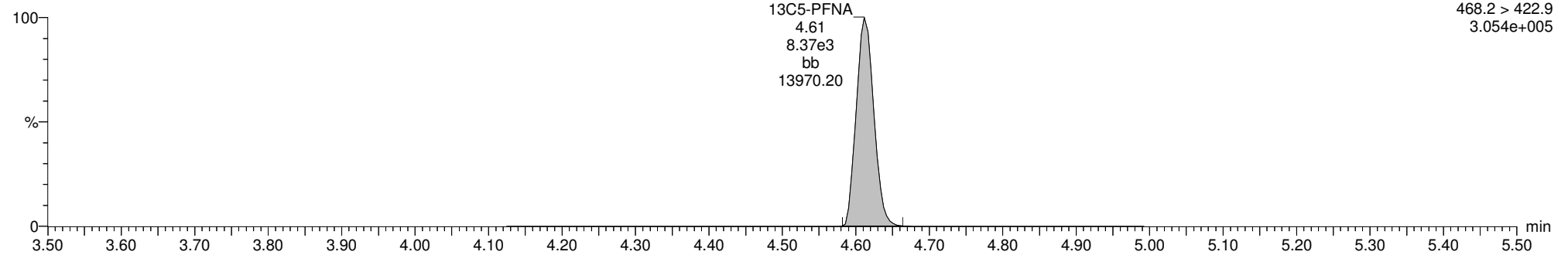


170309G2_4



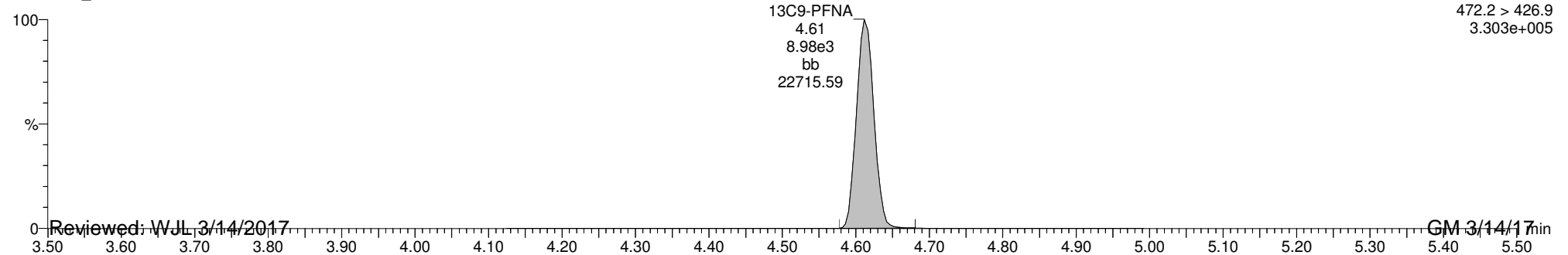
13C5-PFNA

170309G2_4



13C9-PFNA

170309G2_4



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-4.qld

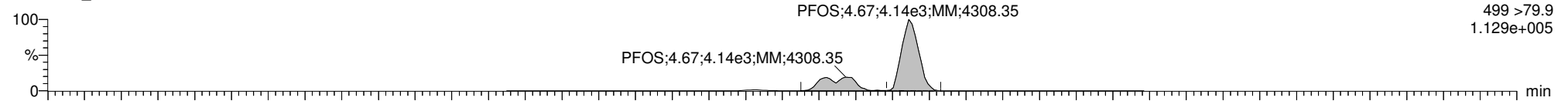
Last Altered: Tuesday, March 14, 2017 10:49:02 Pacific Daylight Time

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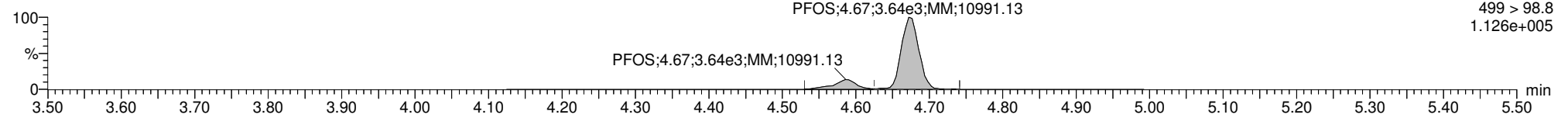
ID: B7C0034-BS1 OPR 0.125, Description: OPR, Name: 170309G2_4, Date: 09-Mar-2017, Time: 16:13:33, Instrument: , Lab: , User:

Total PFOS

170309G2_4

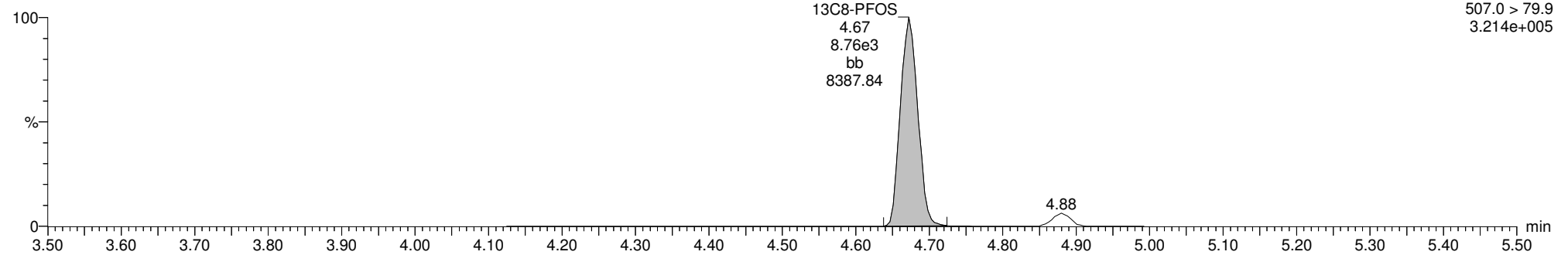


170309G2_4



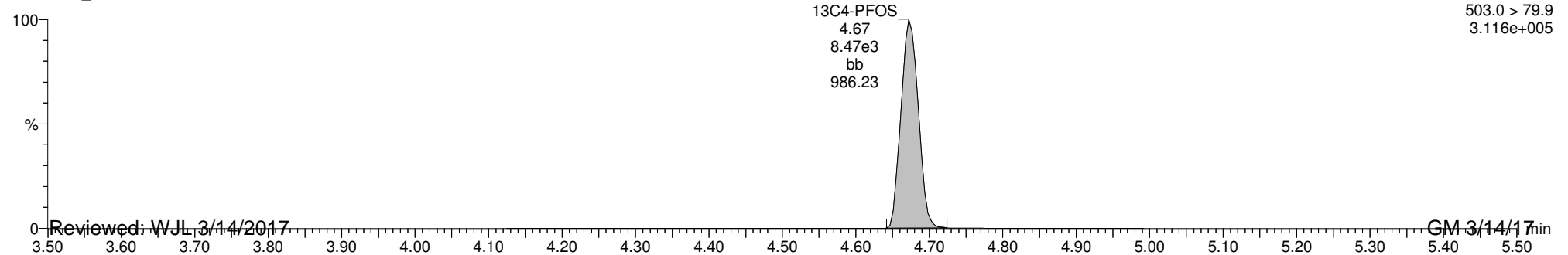
13C8-PFOS

170309G2_4



13C4-PFOS

170309G2_4



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-7.qld

Last Altered: Friday, March 10, 2017 2:39:07 PM Pacific Standard Time

Printed: Friday, March 10, 2017 2:40:13 PM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-01 WI-CV-GW08M-0317 0.125, Description: WI-CV-GW08M-0317, Name: 170309G2_7, Date: 09-Mar-2017, Time: 16:51:08

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	2.801e2	6.346e3		0.128	3.00	1.58	
2	4 PFOA	413 > 368.7	4.930e2	2.794e4		0.128	4.28	0.407	
3	6 PFOS	499 >79.9		8.486e3		0.128			
4	7 13C3-PFBS	302.0 > 98.8	6.346e3	1.324e4	0.410	0.128	3.00	114	117
5	10 13C2-PFOA	414.9 > 369.7	2.794e4	6.594e3	4.608	0.128	4.28	89.6	91.9
6	12 13C8-PFOS	507.0 > 79.9	8.486e3	8.089e3	0.958	0.128	4.68	107	109
7	15 13C8-PFOA	421.3 > 376	6.594e3	6.594e3	1.000	0.128	4.28	97.4	100
8	17 13C4-PFOS	503.0 > 79.9	8.089e3	8.089e3	1.000	0.128	4.68	97.4	100

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-7.qld

Last Altered: Friday, March 10, 2017 2:39:07 PM Pacific Standard Time

Printed: Friday, March 10, 2017 2:40:26 PM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-01 WI-CV-GW08M-0317 0.125, Description: WI-CV-GW08M-0317, Name: 170309G2_7, Date: 09-Mar-2017, Time: 16:51:08

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		6.391e3		0.128		1.58	
2	20 Total PFOA	413 > 368.7		2.794e4		0.128		0.407	
3	21 Total PFOS	499 > 79.9		8.486e3		0.128			

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-7.qld

Last Altered: Friday, March 10, 2017 2:39:07 PM Pacific Standard Time

Printed: Friday, March 10, 2017 2:40:13 PM Pacific Standard Time

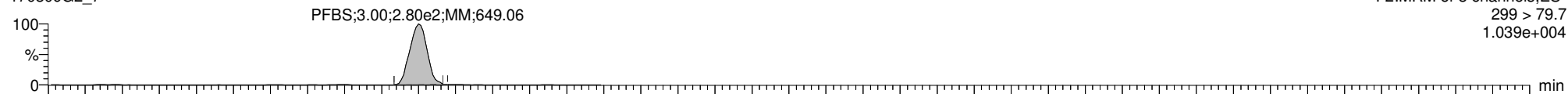
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

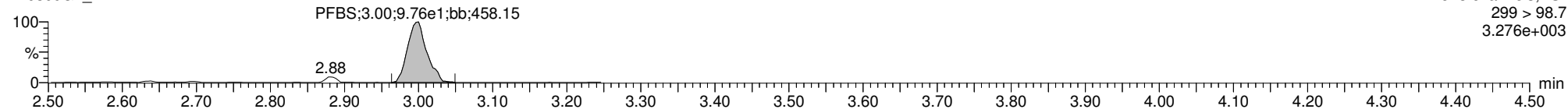
ID: 1700296-01 WI-CV-GW08M-0317 0.125, Description: WI-CV-GW08M-0317, Name: 170309G2_7, Date: 09-Mar-2017, Time: 16:51:08, Instrument: , Lab: , User:

PFBS

170309G2_7

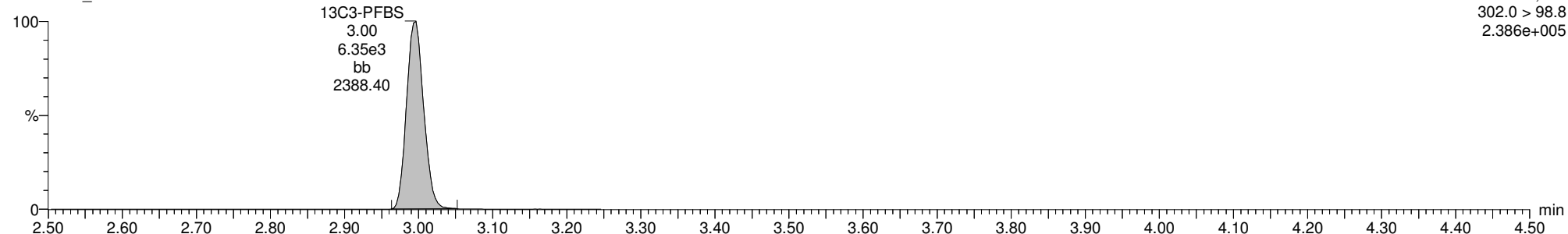


170309G2_7



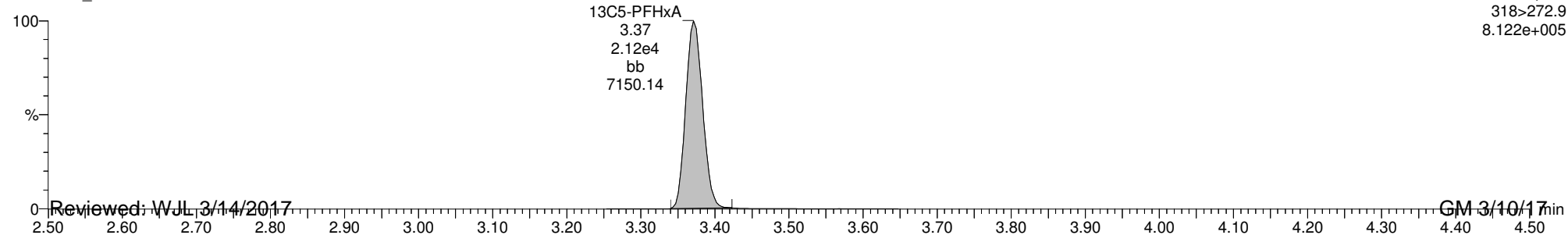
13C3-PFBS

170309G2_7



13C5-PFHxA

170309G2_7



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-7.qld

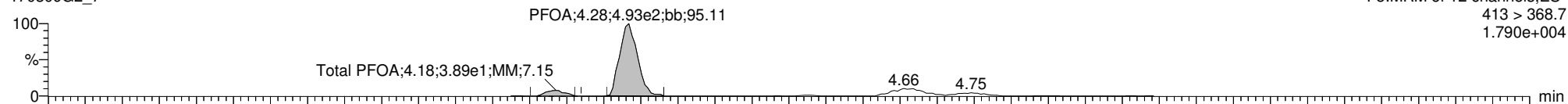
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Printed: Friday, March 10, 2017 2:40:13 PM Pacific Standard Time

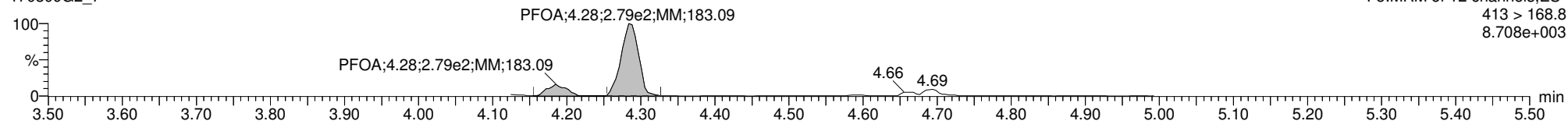
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Total PFOA

170309G2_7

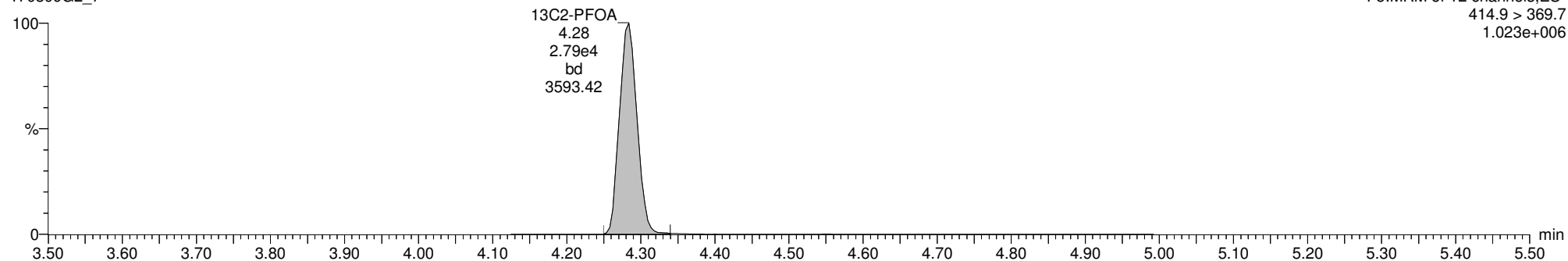


170309G2_7



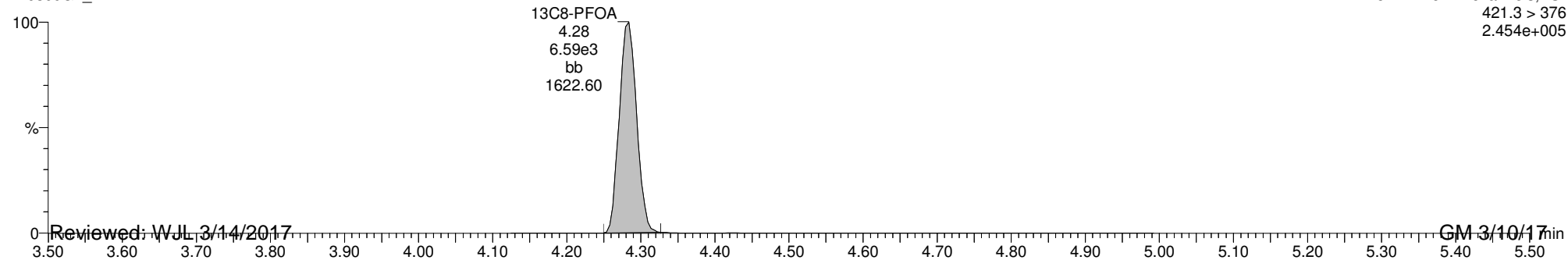
13C2-PFOA

170309G2_7



13C8-PFOA

170309G2_7



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-7.qld

Last Altered: Friday, March 10, 2017 2:39:07 PM Pacific Standard Time

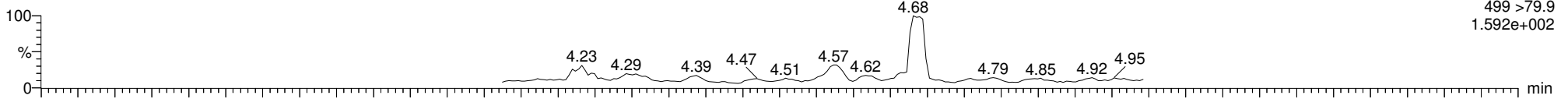
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Total PFOS

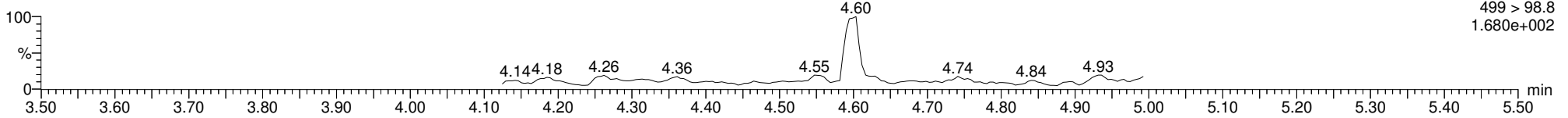
170309G2_7

F5:MRM of 12 channels,ES-
499 >79.9
1.592e+002



170309G2_7

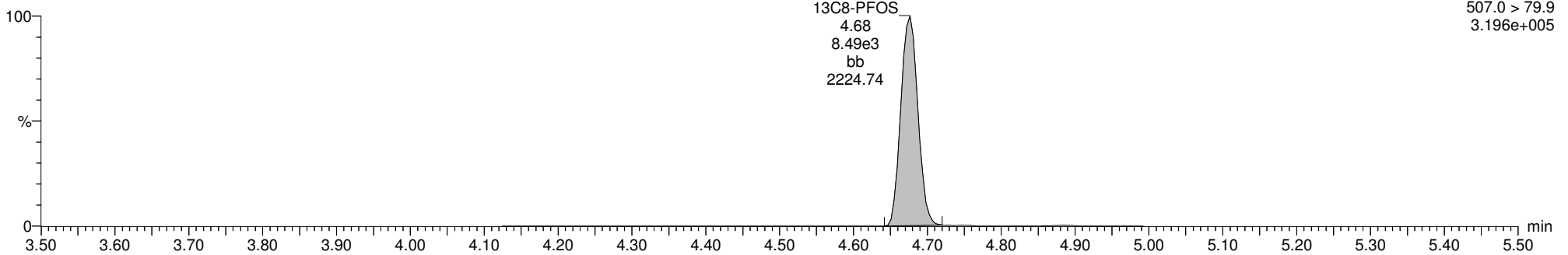
F5:MRM of 12 channels,ES-
499 > 98.8
1.680e+002



13C8-PFOS

170309G2_7

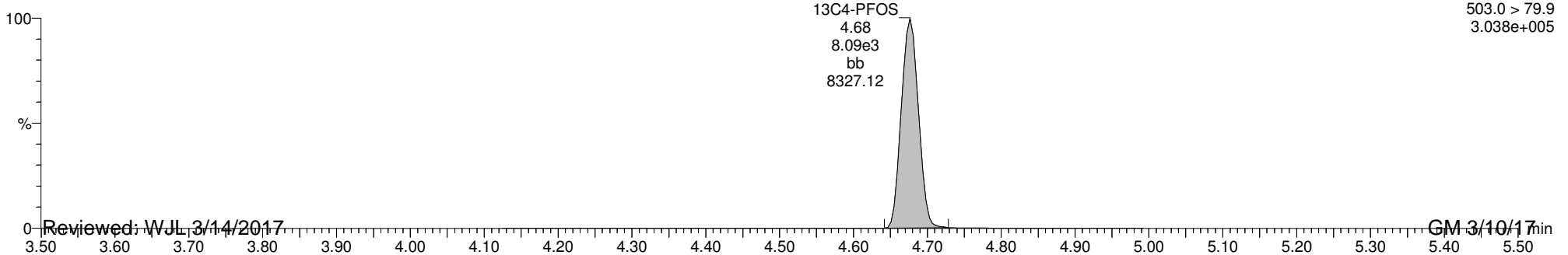
F5:MRM of 12 channels,ES-
507.0 > 79.9
3.196e+005



13C4-PFOS

170309G2_7

F5:MRM of 12 channels,ES-
503.0 > 79.9
3.038e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-8.qld

Last Altered: Friday, March 10, 2017 2:42:54 PM Pacific Standard Time

Printed: Friday, March 10, 2017 2:43:13 PM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-02 WI-CV-EB12-030317 0.125, Description: WI-CV-EB12-030317, Name: 170309G2_8, Date: 09-Mar-2017, Time: 17:03:41

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.725e3		0.121			
2	4 PFOA	413 > 368.7	2.068e2	3.462e4		0.121	4.28		
3	6 PFOS	499 >79.9		9.705e3		0.121			
4	7 13C3-PFBS	302.0 > 98.8	6.725e3	1.561e4	0.410	0.121	2.99	109	105
5	10 13C2-PFOA	414.9 > 369.7	3.462e4	9.172e3	4.608	0.121	4.28	84.8	81.9
6	12 13C8-PFOS	507.0 > 79.9	9.705e3	9.990e3	0.958	0.121	4.68	105	101
7	15 13C8-PFOA	421.3 > 376	9.172e3	9.172e3	1.000	0.121	4.28	104	100
8	17 13C4-PFOS	503.0 > 79.9	9.990e3	9.990e3	1.000	0.121	4.68	104	100

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-8.qld

Last Altered: Friday, March 10, 2017 2:42:54 PM Pacific Standard Time

Printed: Friday, March 10, 2017 2:43:23 PM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-02 WI-CV-EB12-030317 0.125, Description: WI-CV-EB12-030317, Name: 170309G2_8, Date: 09-Mar-2017, Time: 17:03:41

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		7.902e3		0.121			
2	20 Total PFOA	413 > 368.7		3.462e4		0.121			
3	21 Total PFOS	499 > 79.9		9.705e3		0.121			

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-8.qld

Last Altered: Friday, March 10, 2017 2:42:54 PM Pacific Standard Time

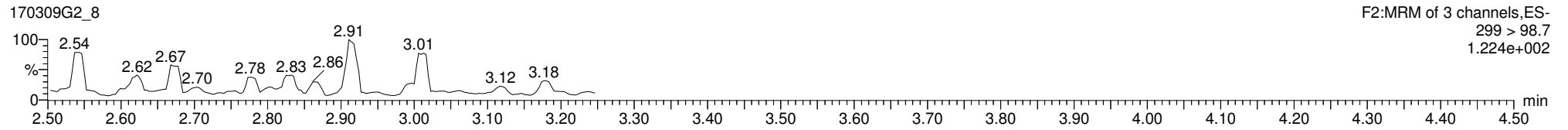
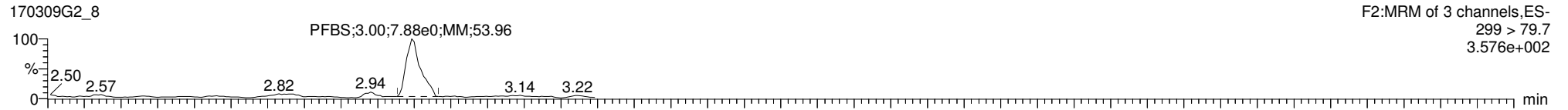
Printed: Friday, March 10, 2017 2:43:13 PM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

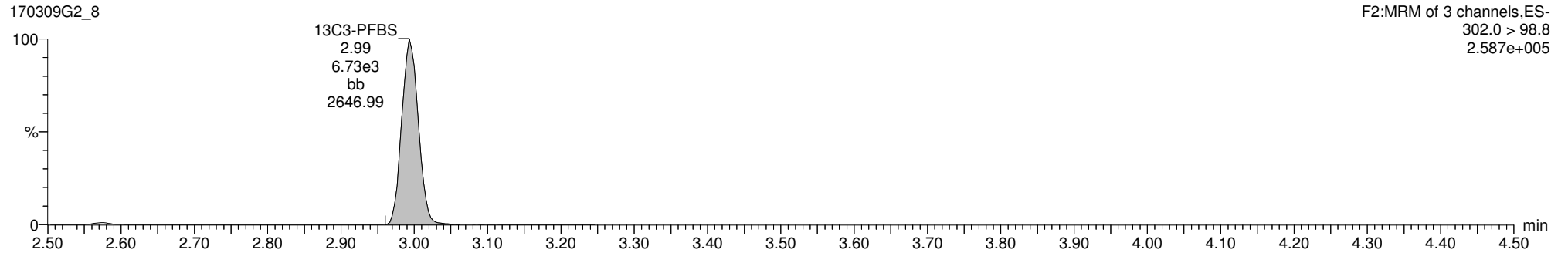
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-02 WI-CV-EB12-030317 0.125, Description: WI-CV-EB12-030317, Name: 170309G2_8, Date: 09-Mar-2017, Time: 17:03:41, Instrument: , Lab: , User:

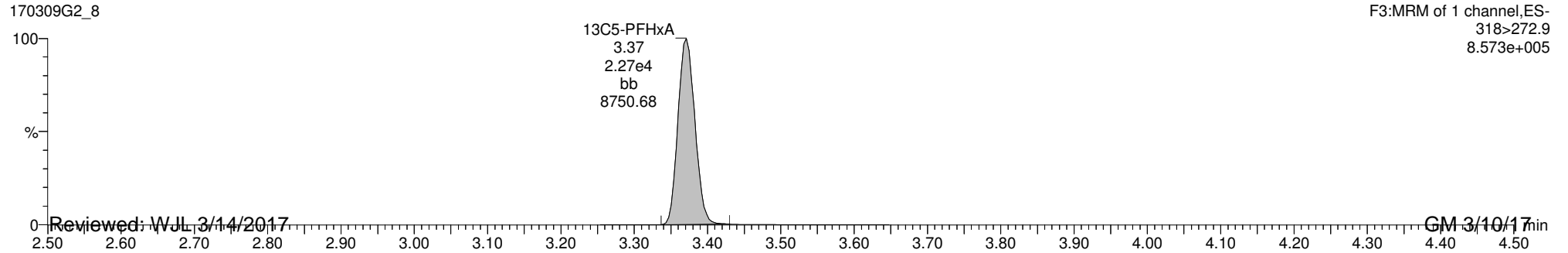
PFBS



13C3-PFBS



13C5-PFHxA



Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-8.qld

Last Altered: Friday, March 10, 2017 2:42:54 PM Pacific Standard Time

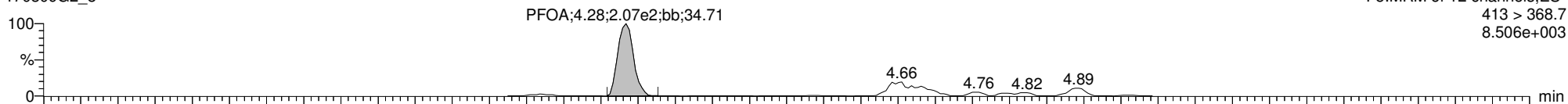
Printed: Friday, March 10, 2017 2:43:13 PM Pacific Standard Time

ID: 1700296-02 WI-CV-EB12-030317 0.125, Description: WI-CV-EB12-030317, Name: 170309G2_8, Date: 09-Mar-2017, Time: 17:03:41, Instrument: , Lab: , User:

Total PFOA

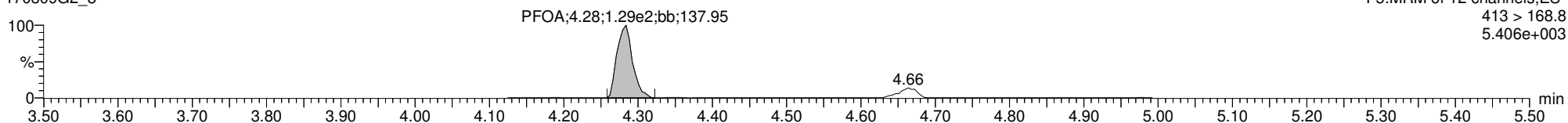
170309G2_8

F5:MRM of 12 channels,ES-
413 > 368.7
8.506e+003



170309G2_8

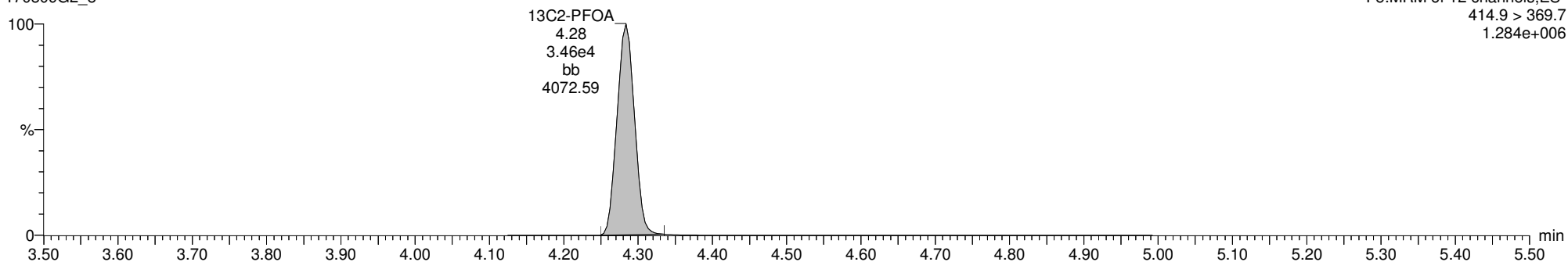
F5:MRM of 12 channels,ES-
413 > 168.8
5.406e+003



13C2-PFOA

170309G2_8

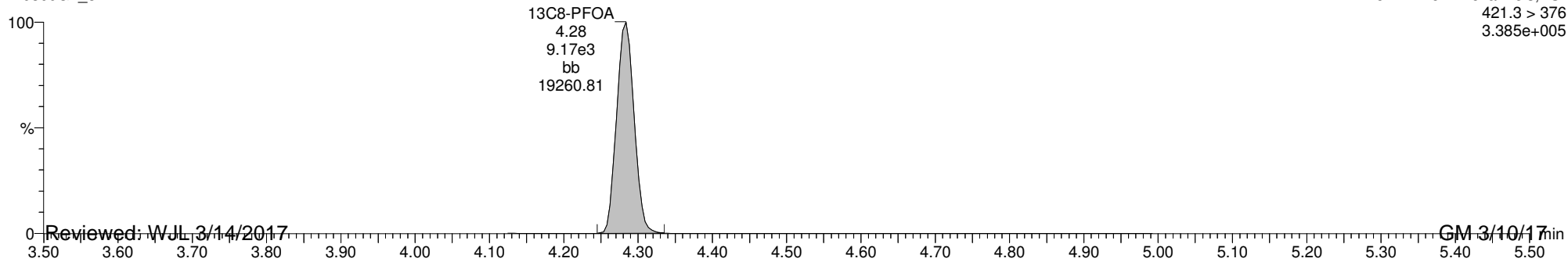
F5:MRM of 12 channels,ES-
414.9 > 369.7
1.284e+006



13C8-PFOA

170309G2_8

F5:MRM of 12 channels,ES-
421.3 > 376
3.385e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-8.qld

Last Altered: Friday, March 10, 2017 2:42:54 PM Pacific Standard Time

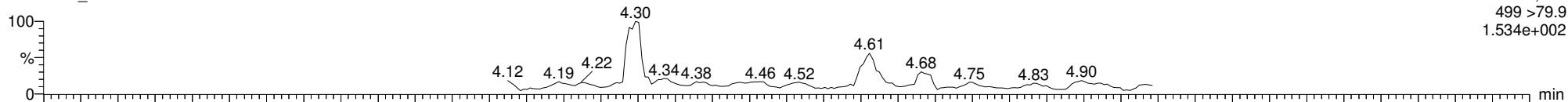
Printed: Friday, March 10, 2017 2:43:13 PM Pacific Standard Time

ID: 1700296-02 WI-CV-EB12-030317 0.125, Description: WI-CV-EB12-030317, Name: 170309G2_8, Date: 09-Mar-2017, Time: 17:03:41, Instrument: , Lab: , User:

Total PFOS

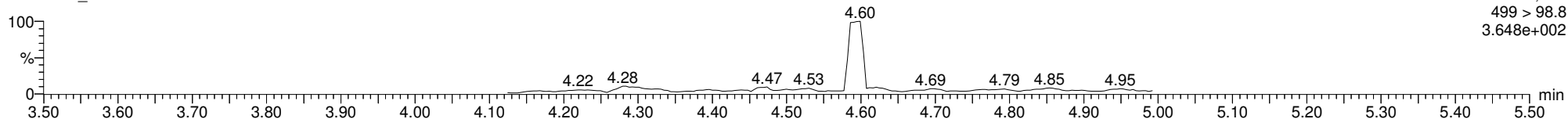
170309G2_8

F5:MRM of 12 channels,ES-
499 >79.9
1.534e+002



170309G2_8

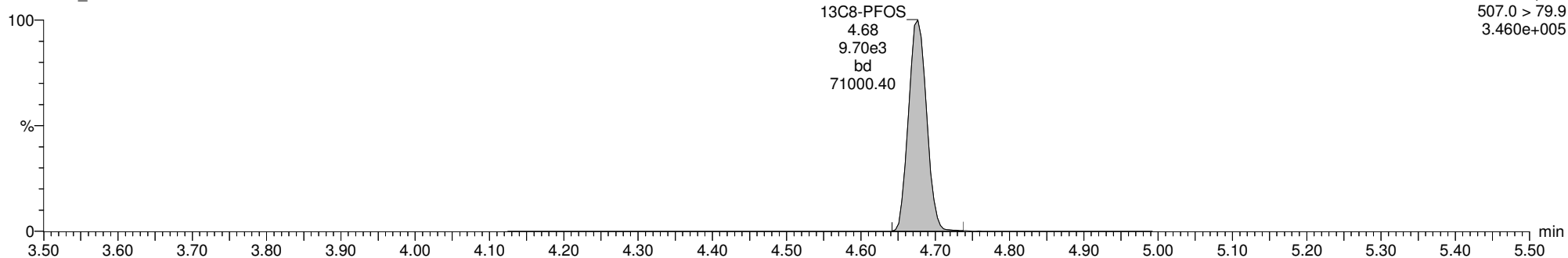
F5:MRM of 12 channels,ES-
499 > 98.8
3.648e+002



13C8-PFOS

170309G2_8

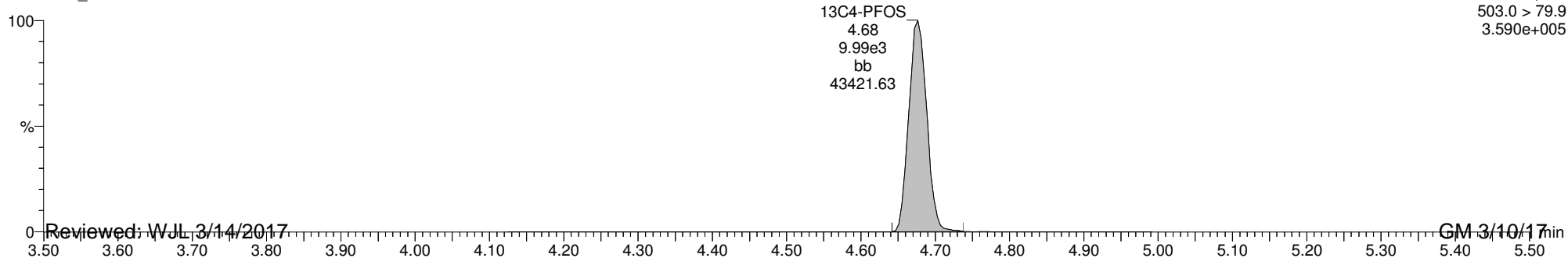
F5:MRM of 12 channels,ES-
507.0 > 79.9
3.460e+005



13C4-PFOS

170309G2_8

F5:MRM of 12 channels,ES-
503.0 > 79.9
3.590e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-9.qld

Last Altered: Friday, March 10, 2017 12:14:50 PM Pacific Standard Time

Printed: Friday, March 10, 2017 12:17:31 PM Pacific Standard Time

Method: Untitled 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-03 WI-CV-GW07S-0317 0.125, Description: WI-CV-GW07S-0317, Name: 170309G2_9, Date: 09-Mar-2017, Time: 17:16:14

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.719e3		0.114			
2	4 PFOA	413 > 368.7	2.500e2	3.369e4		0.114	4.29		
3	6 PFOS	499 >79.9		1.095e4		0.114			
4	7 13C3-PFBS	302.0 > 98.8	6.719e3	1.461e4	0.410	0.114	2.99	124	112
5	10 13C2-PFOA	414.9 > 369.7	3.369e4	8.037e3	4.608	0.114	4.28	100	91.0
6	12 13C8-PFOS	507.0 > 79.9	1.095e4	9.283e3	0.958	0.114	4.68	136	123
7	15 13C8-PFOA	421.3 > 376	8.037e3	8.037e3	1.000	0.114	4.28	110	100
8	17 13C4-PFOS	503.0 > 79.9	9.283e3	9.283e3	1.000	0.114	4.68	110	100

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-9.qld

Last Altered: Friday, March 10, 2017 12:14:50 PM Pacific Standard Time

Printed: Friday, March 10, 2017 12:18:02 PM Pacific Standard Time

Method: Untitled 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-03 WI-CV-GW07S-0317 0.125, Description: WI-CV-GW07S-0317, Name: 170309G2_9, Date: 09-Mar-2017, Time: 17:16:14

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		7.443e3		0.114			
2	20 Total PFOA	413 > 368.7		3.369e4		0.114			
3	21 Total PFOS	499 > 79.9		1.095e4		0.114			

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-9.qld

Last Altered: Friday, March 10, 2017 12:14:50 PM Pacific Standard Time

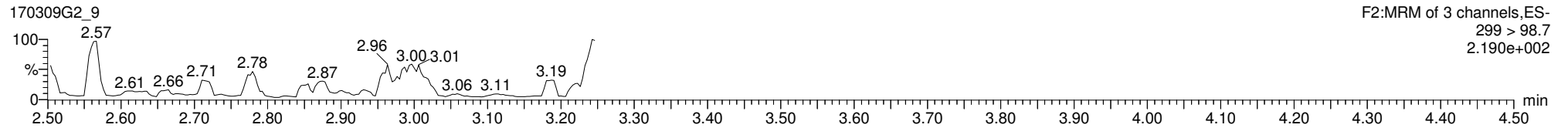
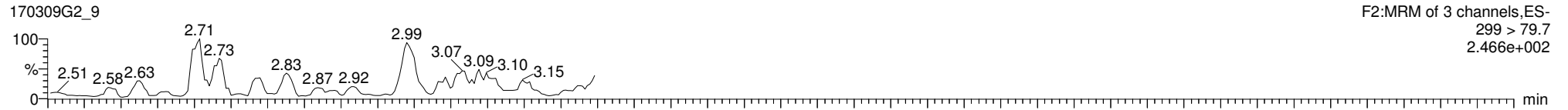
Printed: Friday, March 10, 2017 12:17:31 PM Pacific Standard Time

Method: Untitled 02 Mar 2017 11:26:53

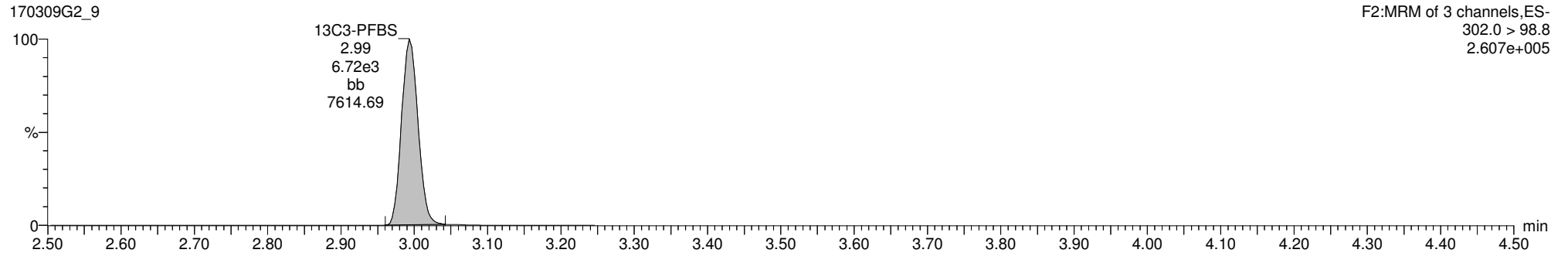
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-03 WI-CV-GW07S-0317 0.125, Description: WI-CV-GW07S-0317, Name: 170309G2_9, Date: 09-Mar-2017, Time: 17:16:14, Instrument: , Lab: , User:

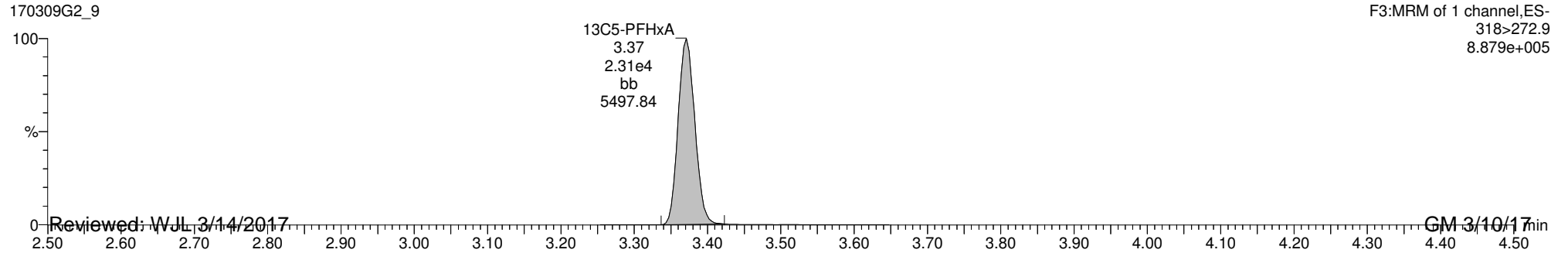
PFBS



13C3-PFBS



13C5-PFHxA



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-9.qld

Last Altered: Friday, March 10, 2017 12:14:50 PM Pacific Standard Time

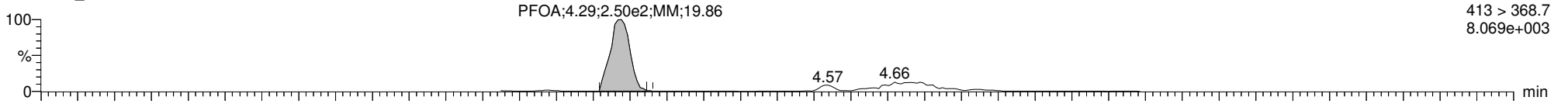
Printed: Friday, March 10, 2017 12:17:31 PM Pacific Standard Time

ID: 1700296-03 WI-CV-GW07S-0317 0.125, Description: WI-CV-GW07S-0317, Name: 170309G2_9, Date: 09-Mar-2017, Time: 17:16:14, Instrument: , Lab: , User:

Total PFOA

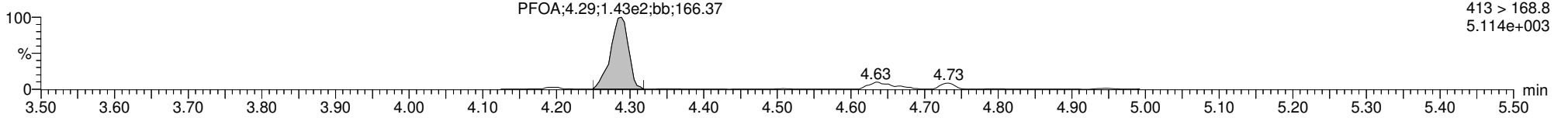
170309G2_9

F5:MRM of 12 channels,ES-
413 > 368.7
8.069e+003



170309G2_9

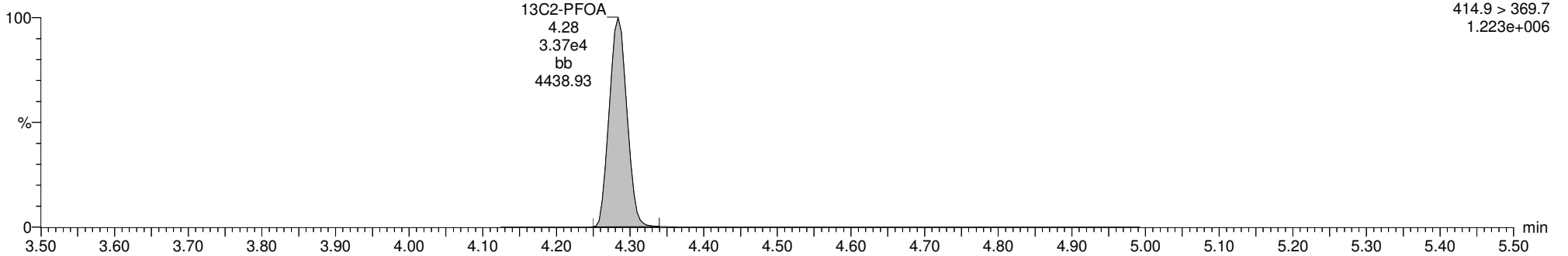
F5:MRM of 12 channels,ES-
413 > 168.8
5.114e+003



13C2-PFOA

170309G2_9

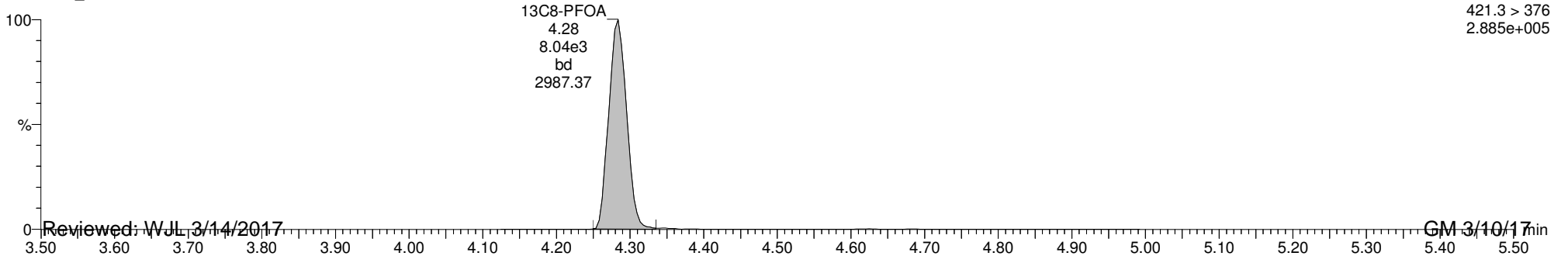
F5:MRM of 12 channels,ES-
414.9 > 369.7
1.223e+006



13C8-PFOA

170309G2_9

F5:MRM of 12 channels,ES-
421.3 > 376
2.885e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-9.qld

Last Altered: Friday, March 10, 2017 12:14:50 PM Pacific Standard Time

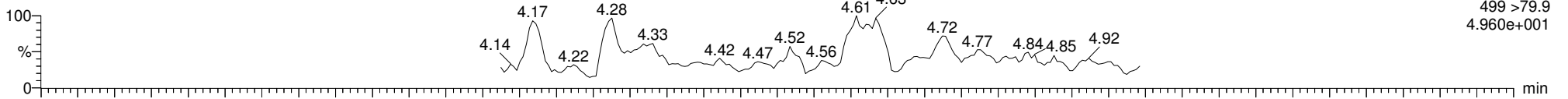
Printed: Friday, March 10, 2017 12:17:31 PM Pacific Standard Time

ID: 1700296-03 WI-CV-GW07S-0317 0.125, Description: WI-CV-GW07S-0317, Name: 170309G2_9, Date: 09-Mar-2017, Time: 17:16:14, Instrument: , Lab: , User:

Total PFOS

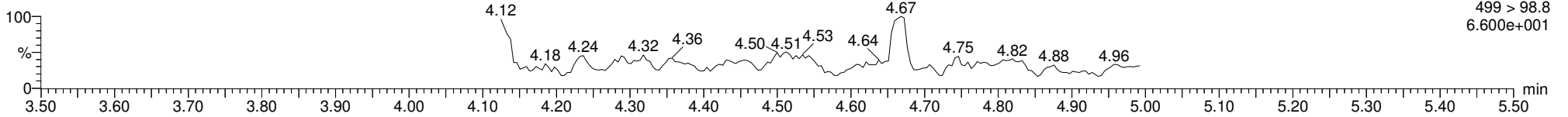
170309G2_9

F5:MRM of 12 channels,ES-
499 >79.9
4.960e+001



170309G2_9

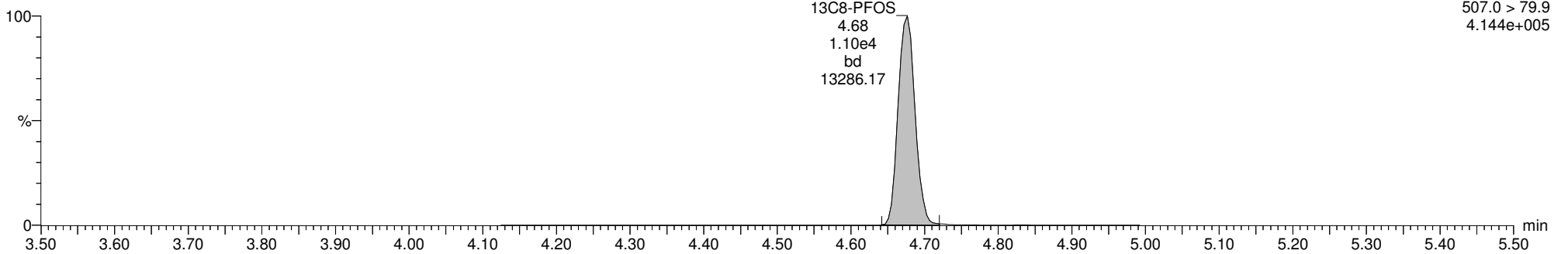
F5:MRM of 12 channels,ES-
499 > 98.8
6.600e+001



13C8-PFOS

170309G2_9

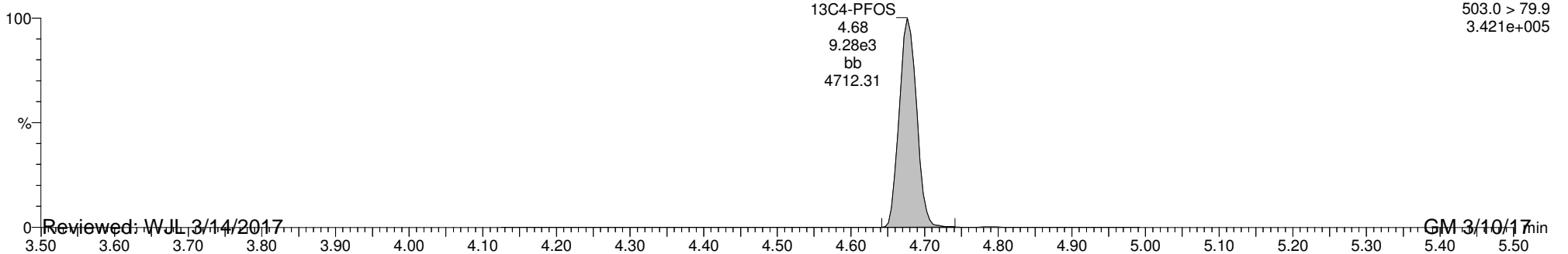
F5:MRM of 12 channels,ES-
507.0 > 79.9
4.144e+005



13C4-PFOS

170309G2_9

F5:MRM of 12 channels,ES-
503.0 > 79.9
3.421e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-10.qld

Last Altered: Friday, March 10, 2017 10:26:36 AM Pacific Standard Time

Printed: Friday, March 10, 2017 10:27:35 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-04 WI-CV-EB13-030417 0.125, Description: WI-CV-EB13-030417, Name: 170309G2_10, Date: 09-Mar-2017, Time: 17:28:47

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.285e1	6.562e3		0.124	2.99		
2	4 PFOA	413 > 368.7	2.585e2	3.551e4		0.124	4.28		
3	6 PFOS	499 >79.9		1.340e4		0.124			
4	7 13C3-PFBS	302.0 > 98.8	6.562e3	1.592e4	0.410	0.124	3.00	102	101
5	10 13C2-PFOA	414.9 > 369.7	3.551e4	8.648e3	4.608	0.124	4.28	90.0	89.1
6	12 13C8-PFOS	507.0 > 79.9	1.340e4	1.303e4	0.958	0.124	4.67	108	107
7	15 13C8-PFOA	421.3 > 376	8.648e3	8.648e3	1.000	0.124	4.28	101	100
8	17 13C4-PFOS	503.0 > 79.9	1.303e4	1.303e4	1.000	0.124	4.68	101	100

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-10.qld

Last Altered: Friday, March 10, 2017 10:26:36 AM Pacific Standard Time

Printed: Friday, March 10, 2017 10:28:04 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-04 WI-CV-EB13-030417 0.125, Description: WI-CV-EB13-030417, Name: 170309G2_10, Date: 09-Mar-2017, Time: 17:28:47

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		7.879e3		0.124			
2	20 Total PFOA	413 > 368.7		3.551e4		0.124			
3	21 Total PFOS	499 > 79.9		1.340e4		0.124			

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-10.qld

Last Altered: Friday, March 10, 2017 10:26:36 AM Pacific Standard Time

Printed: Friday, March 10, 2017 10:27:35 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

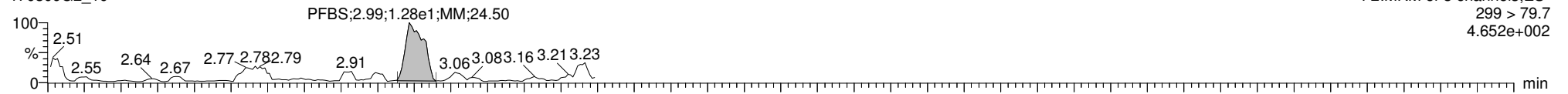
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-04 WI-CV-EB13-030417 0.125, Description: WI-CV-EB13-030417, Name: 170309G2_10, Date: 09-Mar-2017, Time: 17:28:47, Instrument: , Lab: , User:

Total PFBS

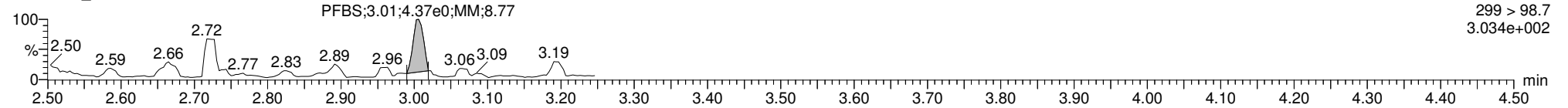
170309G2_10

F2:MRM of 3 channels,ES-
299 > 79.7
4.652e+002



170309G2_10

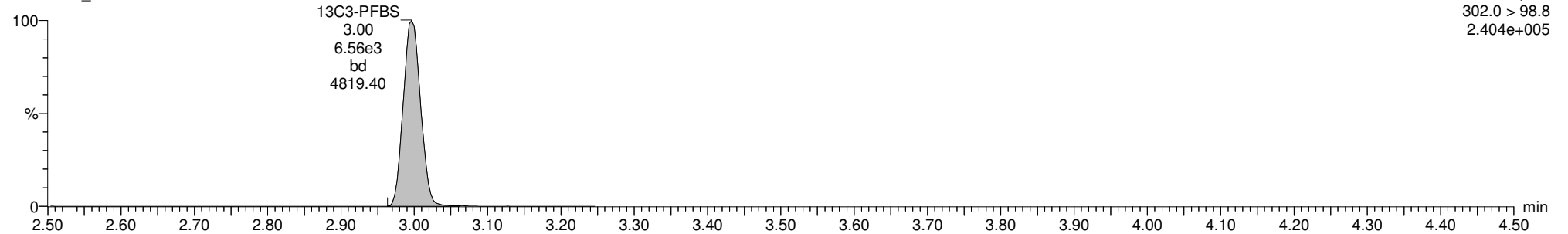
F2:MRM of 3 channels,ES-
299 > 98.7
3.034e+002



13C3-PFBS

170309G2_10

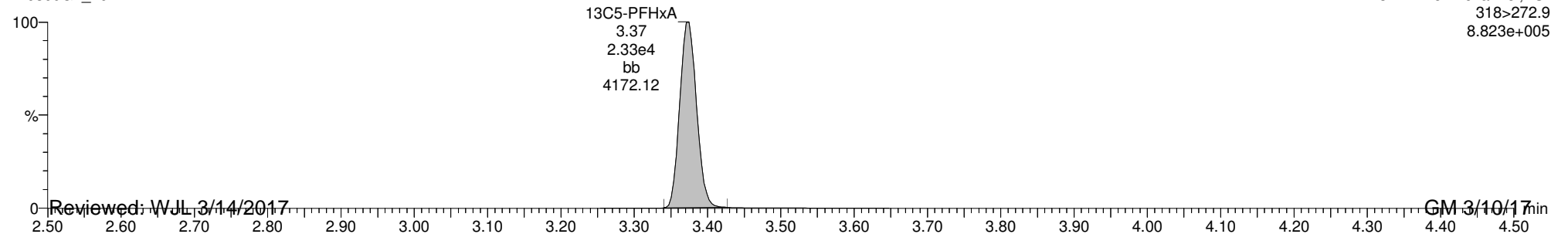
F2:MRM of 3 channels,ES-
302.0 > 98.8
2.404e+005



13C5-PFHxA

170309G2_10

F3:MRM of 1 channel,ES-
318>272.9
8.823e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-10.qld

Last Altered: Friday, March 10, 2017 10:26:36 AM Pacific Standard Time

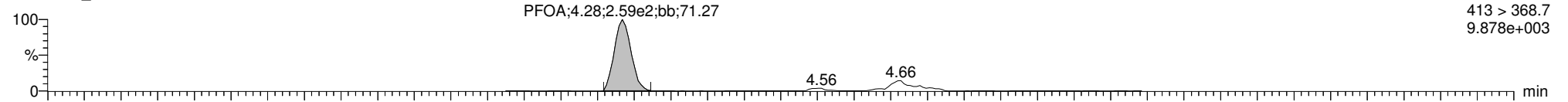
Printed: Friday, March 10, 2017 10:27:35 AM Pacific Standard Time

ID: 1700296-04 WI-CV-EB13-030417 0.125, Description: WI-CV-EB13-030417, Name: 170309G2_10, Date: 09-Mar-2017, Time: 17:28:47, Instrument: , Lab: , User:

Total PFOA

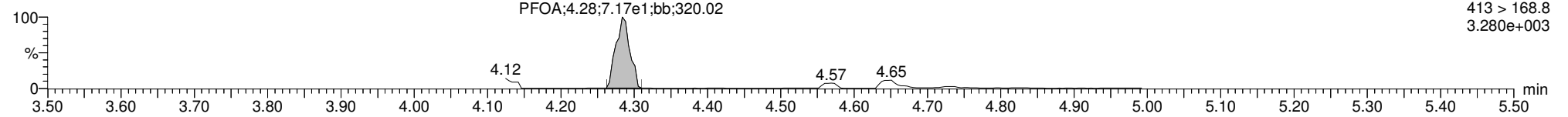
170309G2_10

F5:MRM of 12 channels,ES-
413 > 368.7
9.878e+003



170309G2_10

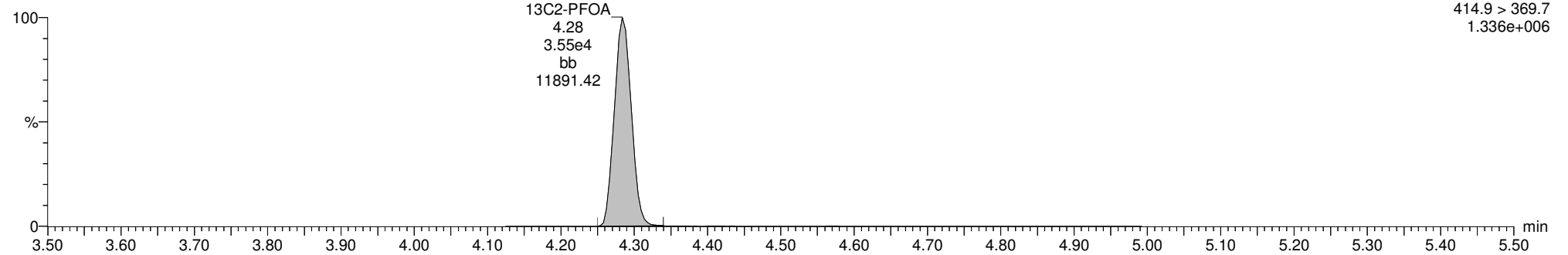
F5:MRM of 12 channels,ES-
413 > 168.8
3.280e+003



13C2-PFOA

170309G2_10

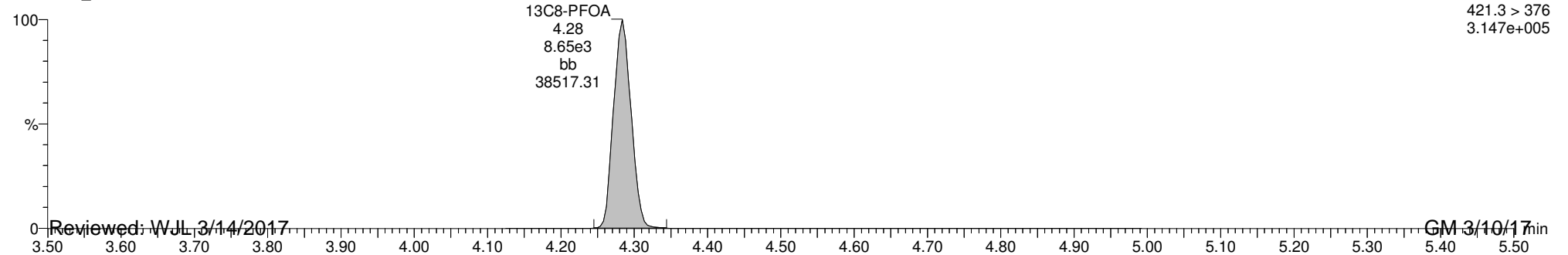
F5:MRM of 12 channels,ES-
414.9 > 369.7
1.336e+006



13C8-PFOA

170309G2_10

F5:MRM of 12 channels,ES-
421.3 > 376
3.147e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-10.qld

Last Altered: Friday, March 10, 2017 10:26:36 AM Pacific Standard Time

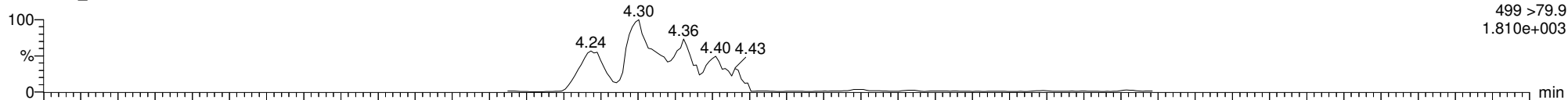
Printed: Friday, March 10, 2017 10:27:35 AM Pacific Standard Time

ID: 1700296-04 WI-CV-EB13-030417 0.125, Description: WI-CV-EB13-030417, Name: 170309G2_10, Date: 09-Mar-2017, Time: 17:28:47, Instrument: , Lab: , User:

Total PFOS

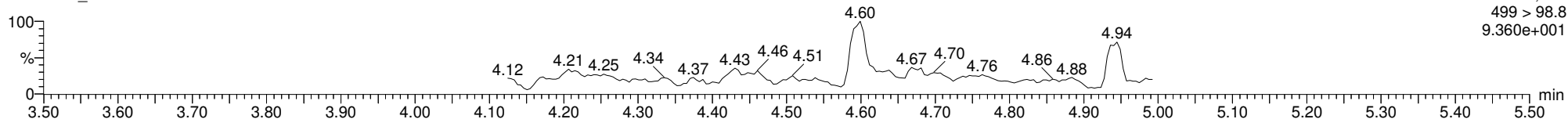
170309G2_10

F5:MRM of 12 channels,ES-
499 >79.9
1.810e+003



170309G2_10

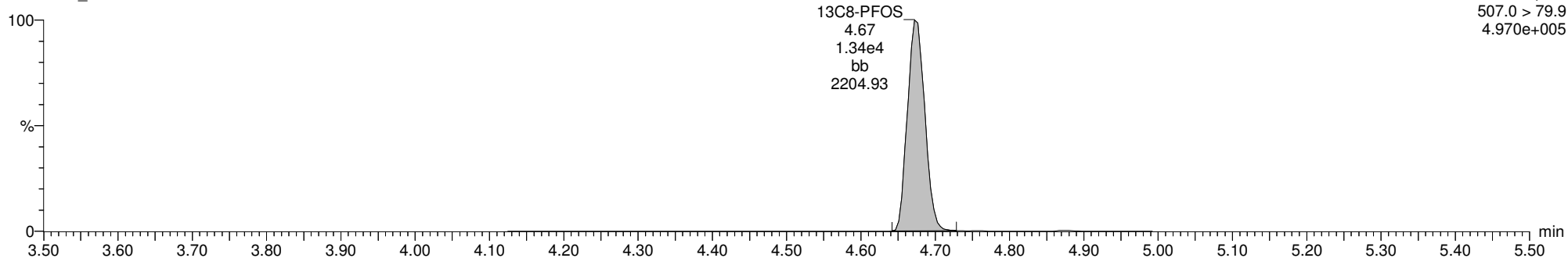
F5:MRM of 12 channels,ES-
499 > 98.8
9.360e+001



13C8-PFOS

170309G2_10

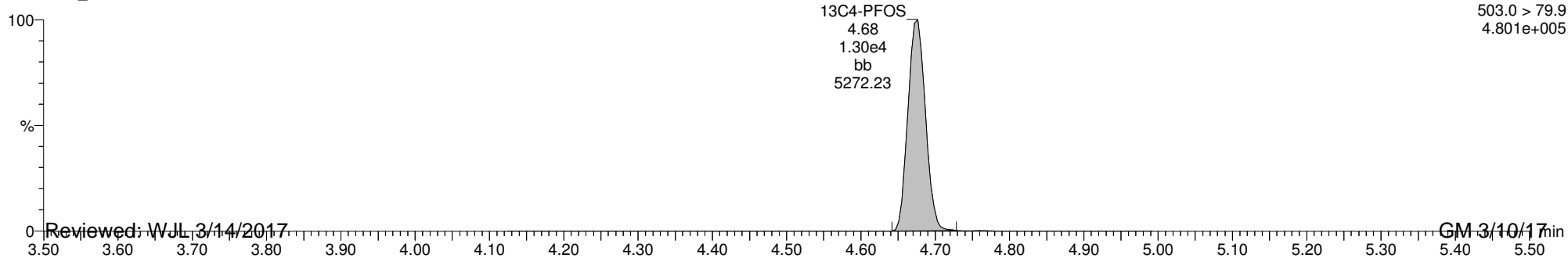
F5:MRM of 12 channels,ES-
507.0 > 79.9
4.970e+005



13C4-PFOS

170309G2_10

F5:MRM of 12 channels,ES-
503.0 > 79.9
4.801e+005



Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-11.qld

Last Altered: Tuesday, March 14, 2017 11:03:21 Pacific Daylight Time

Printed: Tuesday, March 14, 2017 11:03:39 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-05 WI-CV-GW14M-0317 0.125, Description: WI-CV-GW14M-0317, Name: 170309G2_11, Date: 09-Mar-2017, Time: 17:41:21

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.535e4	5.918e3		0.123	2.99	111	
2	2 PFHpA	363 > 318.9	1.112e4	1.645e4		0.123	3.88	37.6	
3	3 PFHxS	398.9 > 79.6	1.961e4	7.696e3		0.123	4.00	142	
4	4 PFOA	413 > 368.7	3.542e4	3.264e4		0.123	4.28	137	
5	5 PFNA	463 > 418.8		1.130e4		0.123			
6	6 PFOS	499 > 79.9	7.292e0	1.287e4		0.123	4.59	0.898	
7	7 13C3-PFBS	302.0 > 98.8	5.918e3	1.511e4	0.410	0.123	2.99	97.2	95.5
8	8 13C4-PFHpA	367.2 > 321.8	1.645e4	1.511e4	1.098	0.123	3.88	101	99.2
9	9 18O2-PFHxS	403 > 102.6	7.696e3	1.511e4	0.434	0.123	3.99	119	117
10	10 13C2-PFOA	414.9 > 369.7	3.264e4	7.421e3	4.608	0.123	4.28	97.1	95.4
11	11 13C5-PFNA	468.2 > 422.9	1.130e4	1.125e4	0.867	0.123	4.62	118	116
12	12 13C8-PFOS	507.0 > 79.9	1.287e4	1.098e4	0.958	0.123	4.67	124	122
13	13 13C5-PFHxA	318 > 272.9	1.940e4	1.940e4	1.000	0.123	3.37	102	100
14	14 13C3-PFHxS	401.9 > 79.9	1.511e4	1.511e4	1.000	0.123	3.99	102	100
15	15 13C8-PFOA	421.3 > 376	7.421e3	7.421e3	1.000	0.123	4.28	102	100
16	16 13C9-PFNA	472.2 > 426.9	1.125e4	1.125e4	1.000	0.123	4.61	102	100
17	17 13C4-PFOS	503.0 > 79.9	1.098e4	1.098e4	1.000	0.123	4.67	102	100
18	18 Total PFBS	299 > 79.7		7.696e3		0.123		111	
19	19 Total PFHxS	398.9 > 79.6		7.696e3		0.123		142	
20	20 Total PFOA	413 > 368.7		3.264e4		0.123		166	
21	21 Total PFOS	499 > 79.9		1.287e4		0.123		0.898	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-11.qld

Last Altered: Tuesday, March 14, 2017 11:03:21 Pacific Daylight Time

Printed: Tuesday, March 14, 2017 11:03:39 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-05 WI-CV-GW14M-0317 0.125, Description: WI-CV-GW14M-0317, Name: 170309G2_11, Date: 09-Mar-2017, Time: 17:41:21

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	1 PFBS	299 > 79.7	2.99	15350.423	5917.723	110.6

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFHxS	398.9 > 79.6	4.00	19607.484	7695.920	142.5

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	35421.238	32636.701	137.1
2	20 Total PFOA	413 > 368.7	4.18	7862.728	32636.701	29.0

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFOS	499 > 79.9	4.59	7.292	12868.387	0.9

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-11.qld

Last Altered: Tuesday, March 14, 2017 11:03:21 Pacific Daylight Time

Printed: Tuesday, March 14, 2017 11:03:39 Pacific Daylight Time

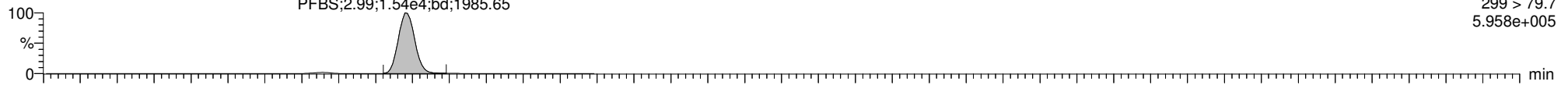
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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

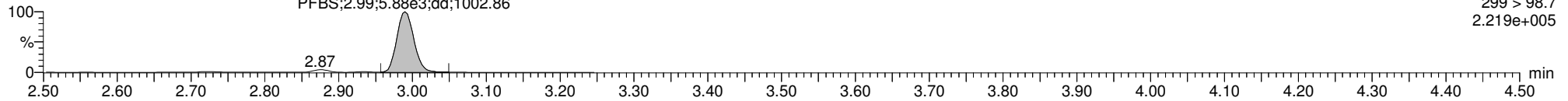
ID: 1700296-05 WI-CV-GW14M-0317 0.125, Description: WI-CV-GW14M-0317, Name: 170309G2_11, Date: 09-Mar-2017, Time: 17:41:21, Instrument: , Lab: , User:

PFBS

170309G2_11

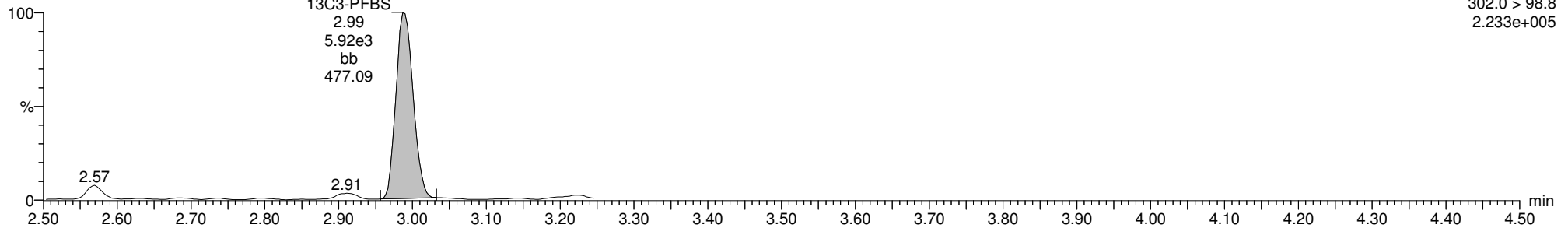


170309G2_11



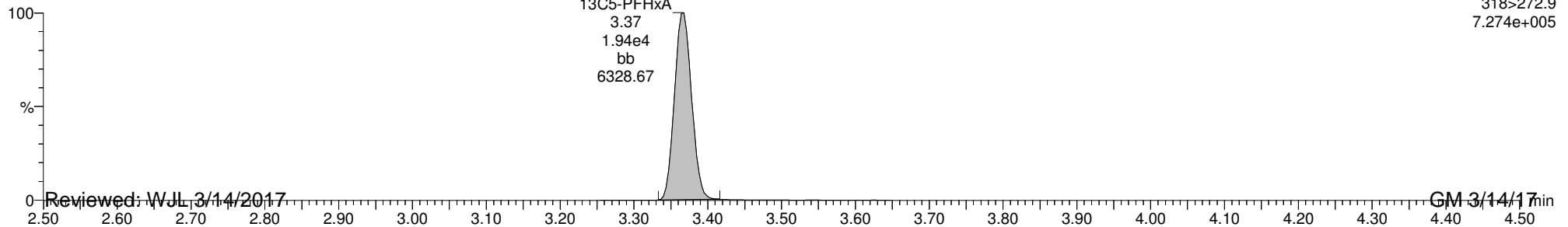
13C3-PFBS

170309G2_11



13C5-PFHxA

170309G2_11



Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-11.qld

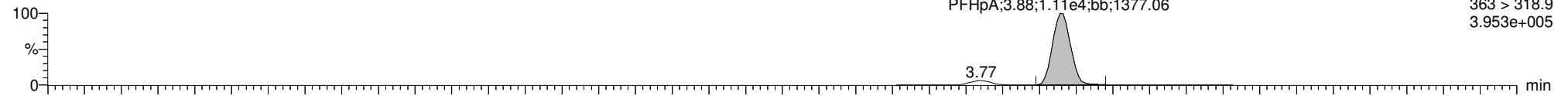
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Printed: Tuesday, March 14, 2017 11:03:39 Pacific Daylight Time

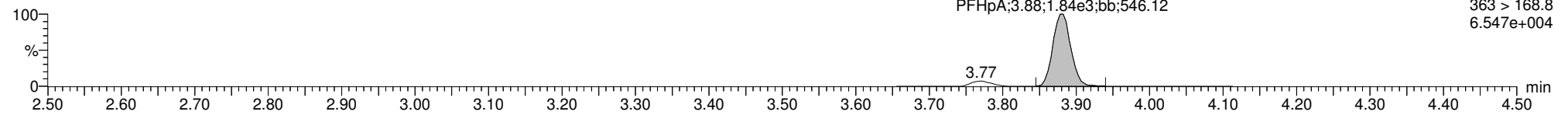
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PFHpA

170309G2_11

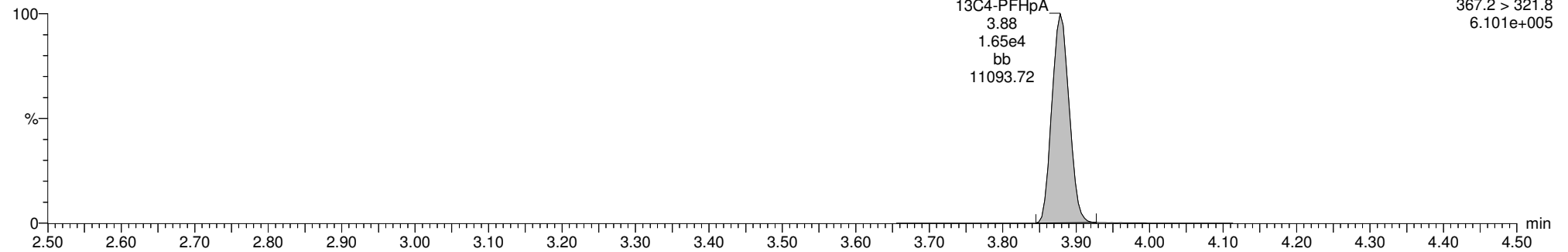


170309G2_11



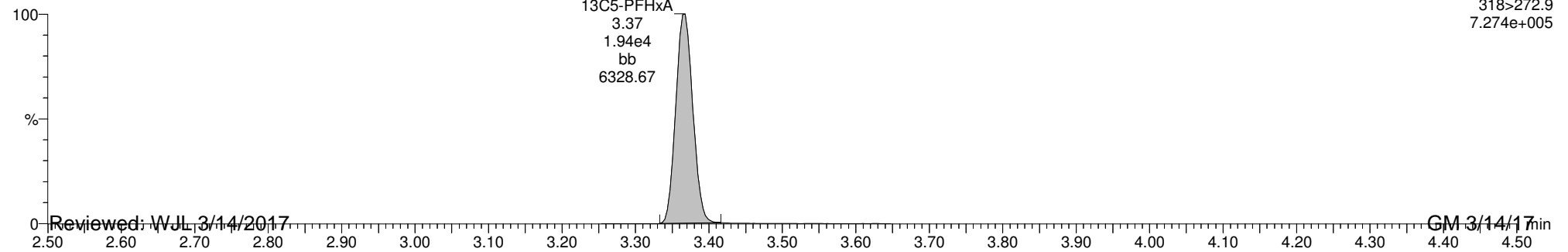
13C4-PFHpA

170309G2_11



13C5-PFHxA

170309G2_11



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-11.qld

Last Altered: Tuesday, March 14, 2017 11:03:21 Pacific Daylight Time

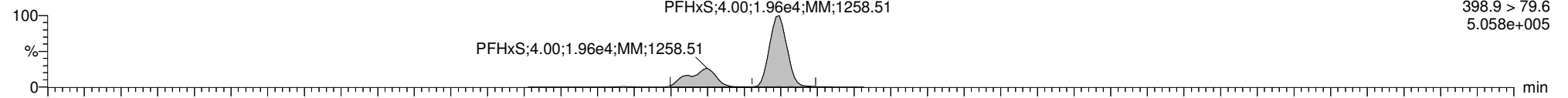
Printed: Tuesday, March 14, 2017 11:03:39 Pacific Daylight Time

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Total PFHxS

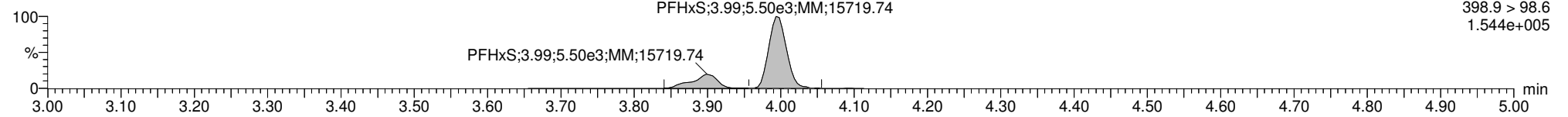
170309G2_11

F4:MRM of 7 channels,ES-
398.9 > 79.6
5.058e+005



170309G2_11

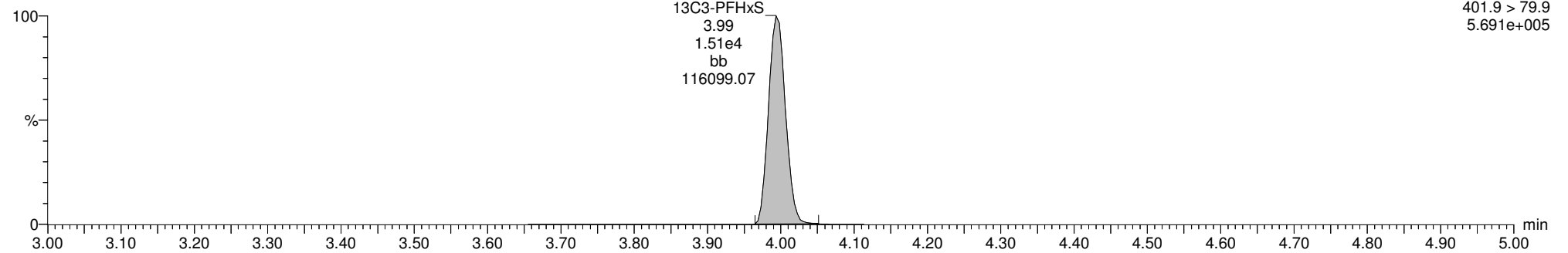
F4:MRM of 7 channels,ES-
398.9 > 98.6
1.544e+005



13C3-PFHxS

170309G2_11

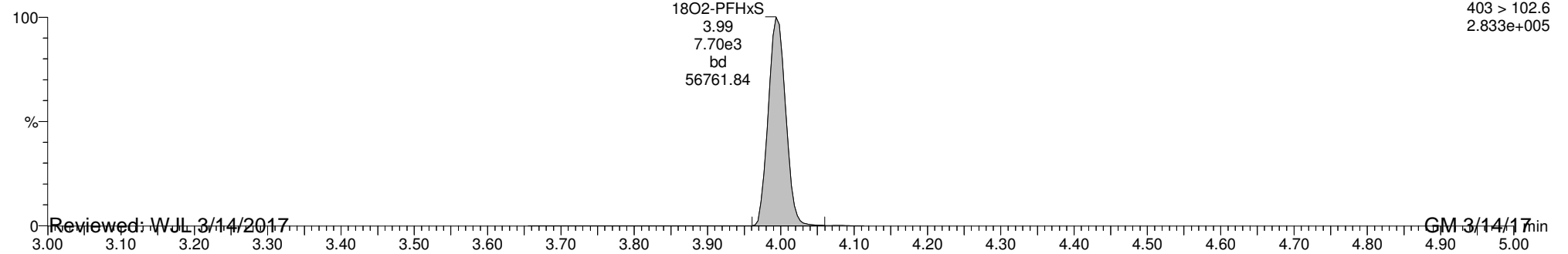
F4:MRM of 7 channels,ES-
401.9 > 79.9
5.691e+005



18O2-PFHxS

170309G2_11

F4:MRM of 7 channels,ES-
403 > 102.6
2.833e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-11.qld

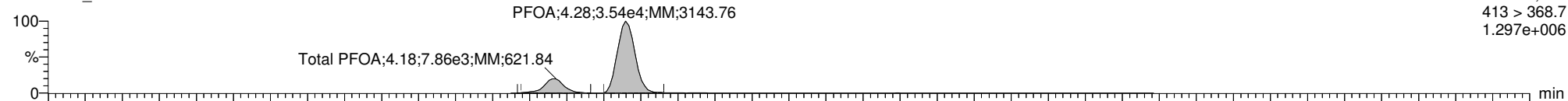
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Printed: Tuesday, March 14, 2017 11:03:39 Pacific Daylight Time

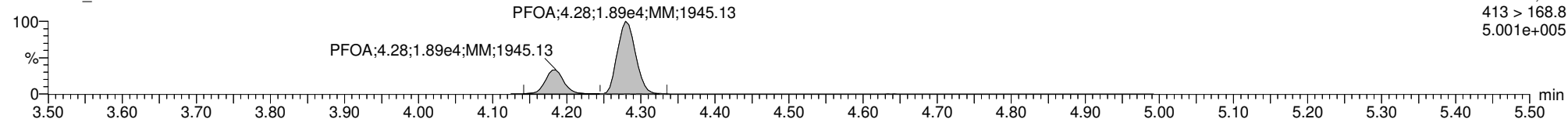
ID: 1700296-05 WI-CV-GW14M-0317 0.125, Description: WI-CV-GW14M-0317, Name: 170309G2_11, Date: 09-Mar-2017, Time: 17:41:21, Instrument: , Lab: , User:

Total PFOA

170309G2_11

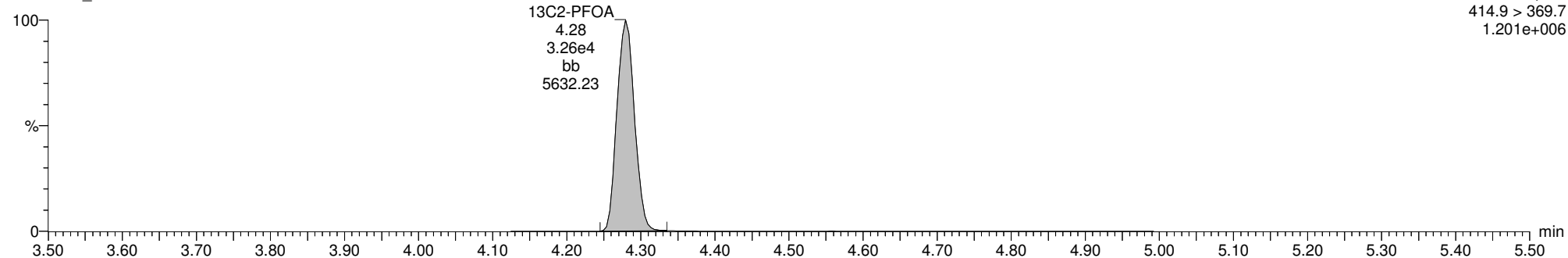


170309G2_11



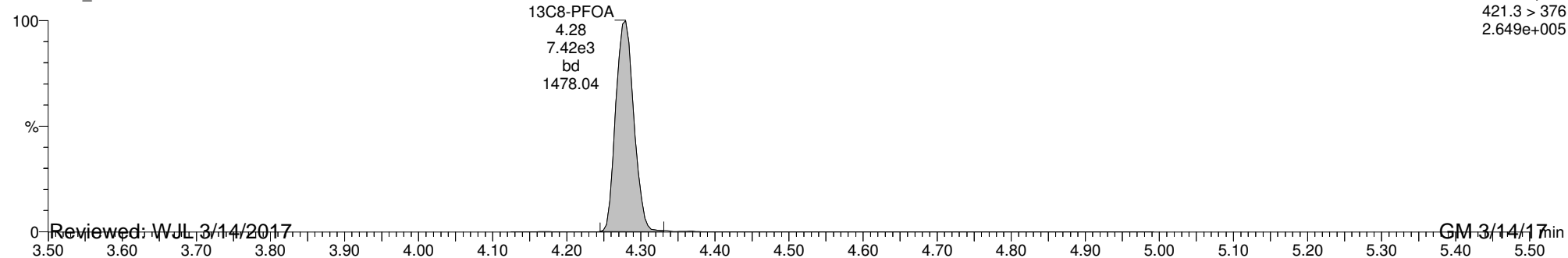
13C2-PFOA

170309G2_11



13C8-PFOA

170309G2_11



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-11.qld

Last Altered: Tuesday, March 14, 2017 11:03:21 Pacific Daylight Time

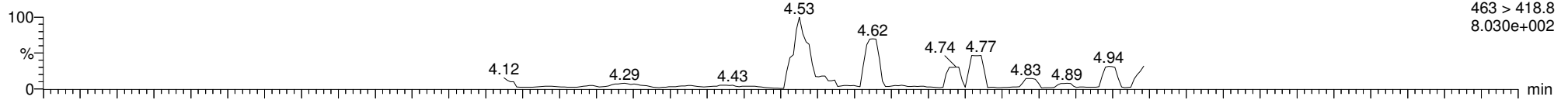
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ID: 1700296-05 WI-CV-GW14M-0317 0.125, Description: WI-CV-GW14M-0317, Name: 170309G2_11, Date: 09-Mar-2017, Time: 17:41:21, Instrument: , Lab: , User:

PFNA

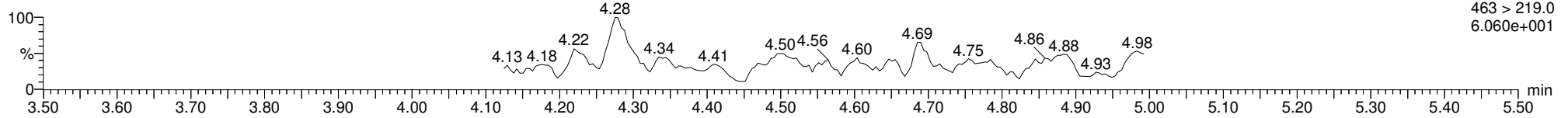
170309G2_11

F5:MRM of 12 channels,ES-
463 > 418.8
8.030e+002



170309G2_11

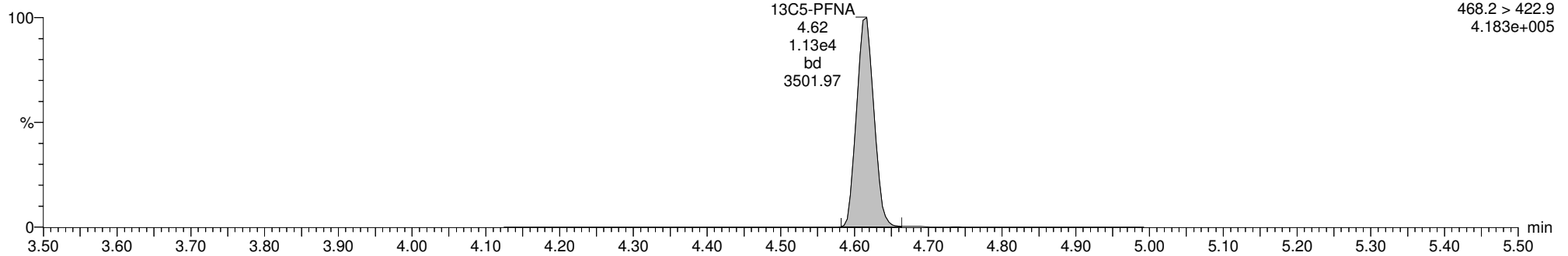
F5:MRM of 12 channels,ES-
463 > 219.0
6.060e+001



13C5-PFNA

170309G2_11

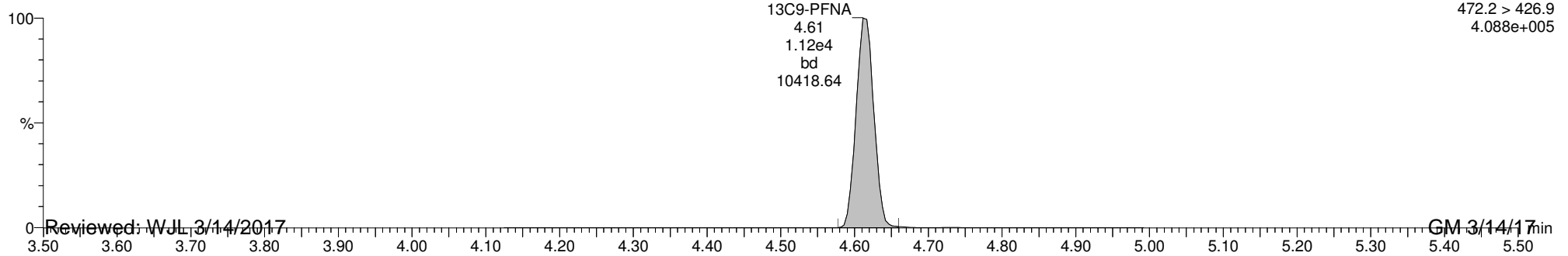
F5:MRM of 12 channels,ES-
468.2 > 422.9
4.183e+005



13C9-PFNA

170309G2_11

F5:MRM of 12 channels,ES-
472.2 > 426.9
4.088e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-11.qld

Last Altered: Tuesday, March 14, 2017 11:03:21 Pacific Daylight Time

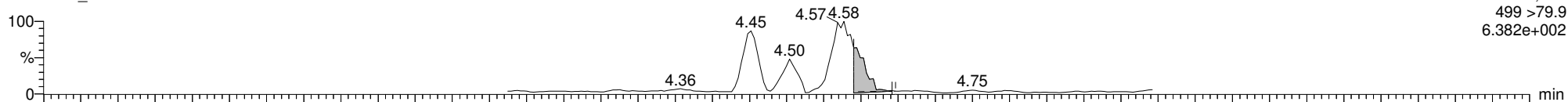
Printed: Tuesday, March 14, 2017 11:03:39 Pacific Daylight Time

ID: 1700296-05 WI-CV-GW14M-0317 0.125, Description: WI-CV-GW14M-0317, Name: 170309G2_11, Date: 09-Mar-2017, Time: 17:41:21, Instrument: , Lab: , User:

Total PFOS

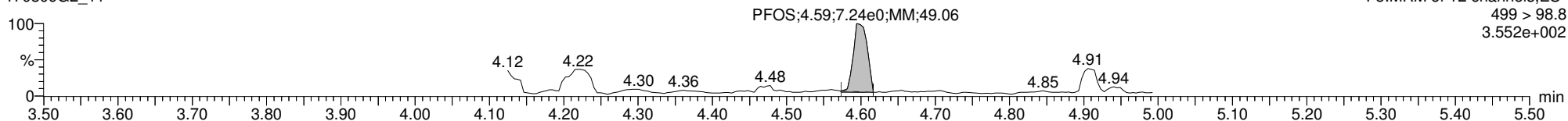
170309G2_11

F5:MRM of 12 channels,ES-
499 >79.9
6.382e+002



170309G2_11

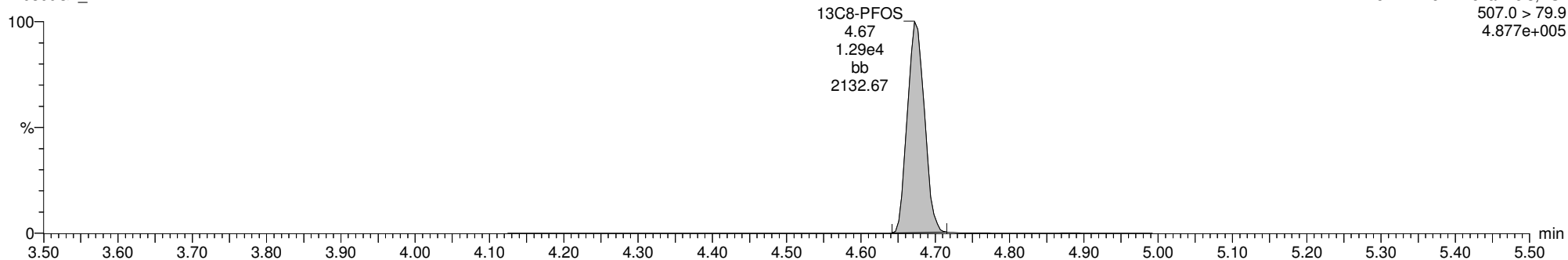
F5:MRM of 12 channels,ES-
499 > 98.8
3.552e+002



13C8-PFOS

170309G2_11

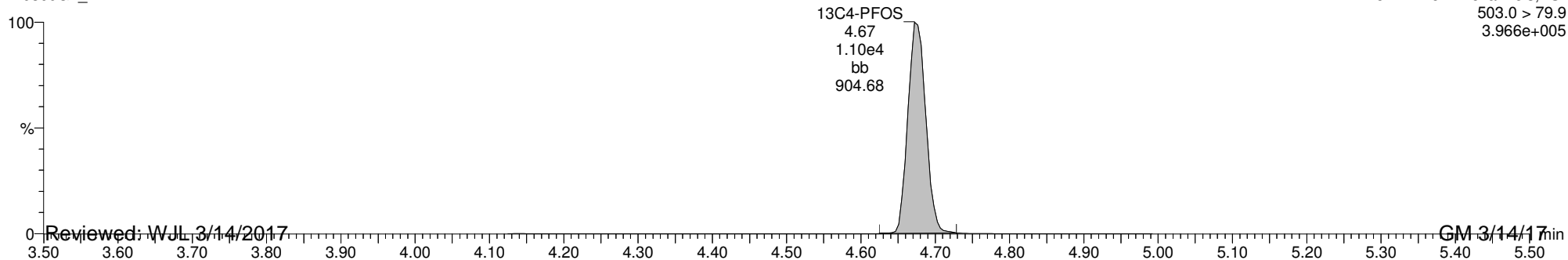
F5:MRM of 12 channels,ES-
507.0 > 79.9
4.877e+005



13C4-PFOS

170309G2_11

F5:MRM of 12 channels,ES-
503.0 > 79.9
3.966e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-12.qld

Last Altered: Friday, March 10, 2017 10:40:34 AM Pacific Standard Time

Printed: Friday, March 10, 2017 10:40:56 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-06 WI-CV-GW13S-0317 0.125, Description: WI-CV-GW13S-0317, Name: 170309G2_12, Date: 09-Mar-2017, Time: 17:53:53

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	2.791e2	6.019e3		0.123	3.00	1.74	
2	4 PFOA	413 > 368.7	3.409e2	3.371e4		0.123	4.29		
3	6 PFOS	499 >79.9		1.202e4		0.123			
4	7 13C3-PFBS	302.0 > 98.8	6.019e3	1.459e4	0.410	0.123	2.99	102	101
5	10 13C2-PFOA	414.9 > 369.7	3.371e4	8.187e3	4.608	0.123	4.28	90.5	89.4
6	12 13C8-PFOS	507.0 > 79.9	1.202e4	1.053e4	0.958	0.123	4.68	121	119
7	15 13C8-PFOA	421.3 > 376	8.187e3	8.187e3	1.000	0.123	4.28	101	100
8	17 13C4-PFOS	503.0 > 79.9	1.053e4	1.053e4	1.000	0.123	4.68	101	100

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-12.qld

Last Altered: Friday, March 10, 2017 10:40:34 AM Pacific Standard Time

Printed: Friday, March 10, 2017 10:41:08 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-06 WI-CV-GW13S-0317 0.125, Description: WI-CV-GW13S-0317, Name: 170309G2_12, Date: 09-Mar-2017, Time: 17:53:53

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		7.225e3		0.123		1.74	
2	20 Total PFOA	413 > 368.7		3.371e4		0.123			
3	21 Total PFOS	499 > 79.9		1.202e4		0.123			

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-12.qld

Last Altered: Friday, March 10, 2017 10:40:34 AM Pacific Standard Time

Printed: Friday, March 10, 2017 10:40:56 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

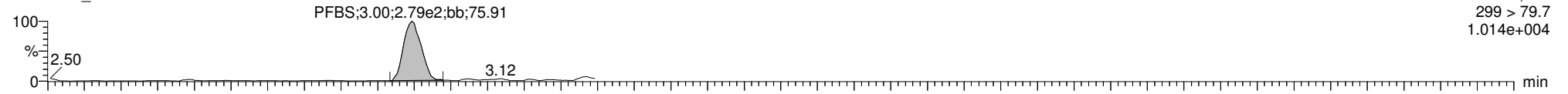
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-06 WI-CV-GW13S-0317 0.125, Description: WI-CV-GW13S-0317, Name: 170309G2_12, Date: 09-Mar-2017, Time: 17:53:53, Instrument: , Lab: , User:

Total PFBS

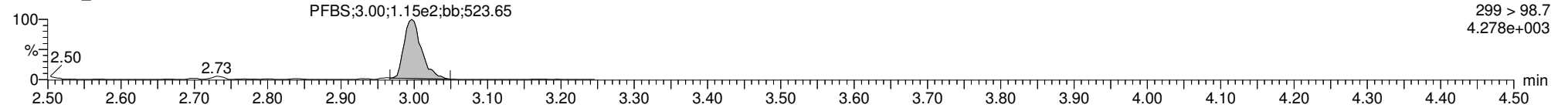
170309G2_12

F2:MRM of 3 channels,ES-
299 > 79.7
1.014e+004



170309G2_12

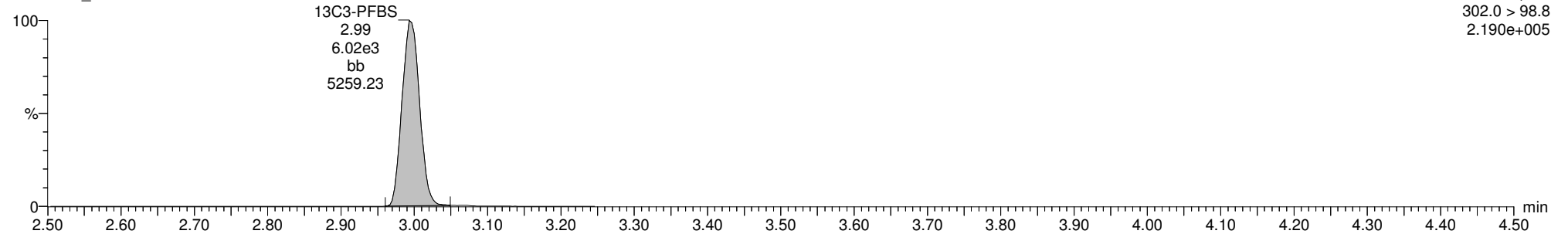
F2:MRM of 3 channels,ES-
299 > 98.7
4.278e+003



13C3-PFBS

170309G2_12

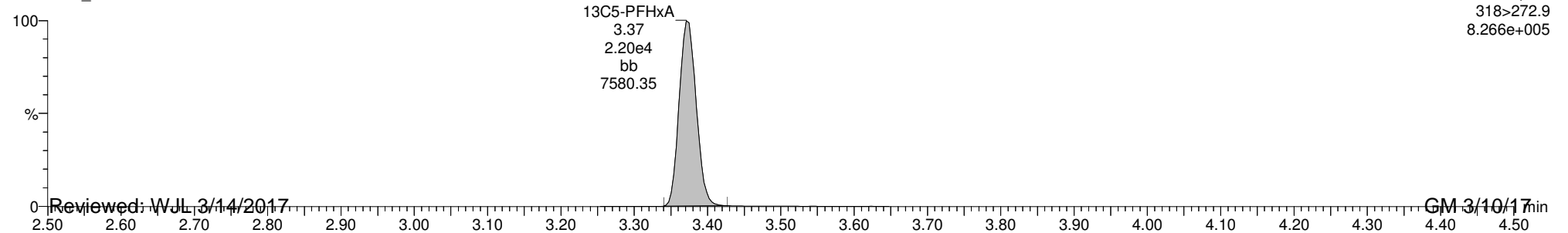
F2:MRM of 3 channels,ES-
302.0 > 98.8
2.190e+005



13C5-PFHxA

170309G2_12

F3:MRM of 1 channel,ES-
318>272.9
8.266e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-12.qld

Last Altered: Friday, March 10, 2017 10:40:34 AM Pacific Standard Time

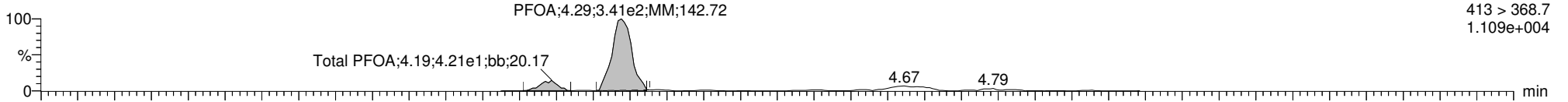
Printed: Friday, March 10, 2017 10:40:56 AM Pacific Standard Time

ID: 1700296-06 WI-CV-GW13S-0317 0.125, Description: WI-CV-GW13S-0317, Name: 170309G2_12, Date: 09-Mar-2017, Time: 17:53:53, Instrument: , Lab: , User:

Total PFOA

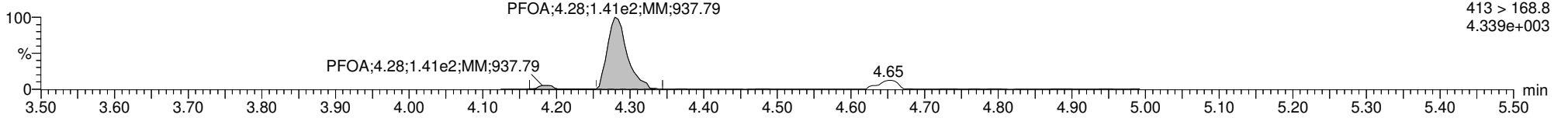
170309G2_12

F5:MRM of 12 channels,ES-
413 > 368.7
1.109e+004



170309G2_12

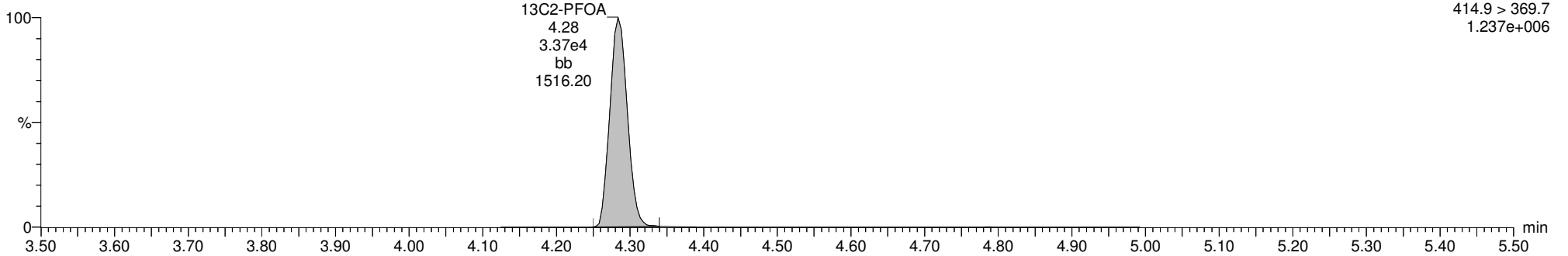
F5:MRM of 12 channels,ES-
413 > 168.8
4.339e+003



13C2-PFOA

170309G2_12

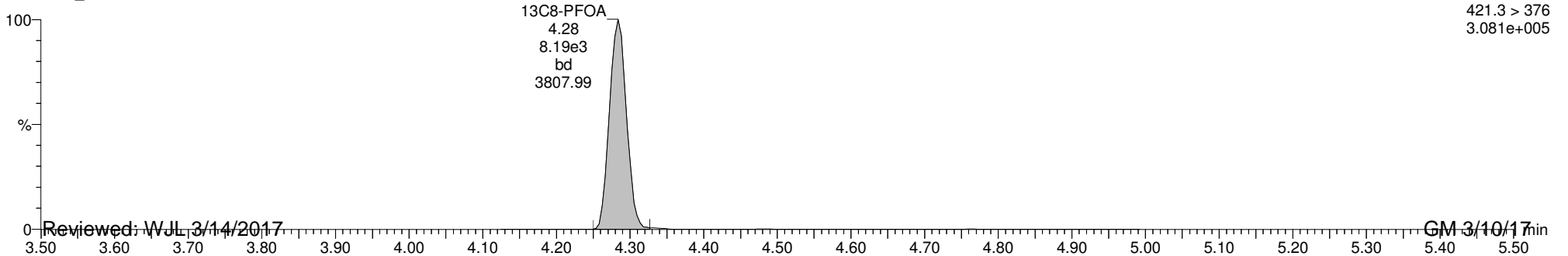
F5:MRM of 12 channels,ES-
414.9 > 369.7
1.237e+006



13C8-PFOA

170309G2_12

F5:MRM of 12 channels,ES-
421.3 > 376
3.081e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-12.qld

Last Altered: Friday, March 10, 2017 10:40:34 AM Pacific Standard Time

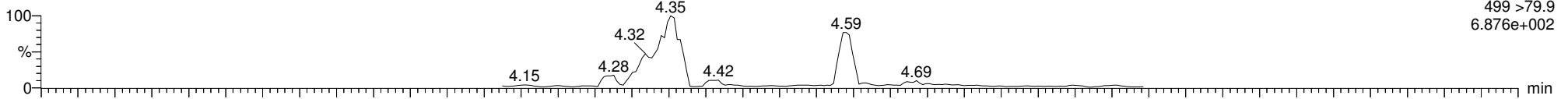
Printed: Friday, March 10, 2017 10:40:56 AM Pacific Standard Time

ID: 1700296-06 WI-CV-GW13S-0317 0.125, Description: WI-CV-GW13S-0317, Name: 170309G2_12, Date: 09-Mar-2017, Time: 17:53:53, Instrument: , Lab: , User:

Total PFOS

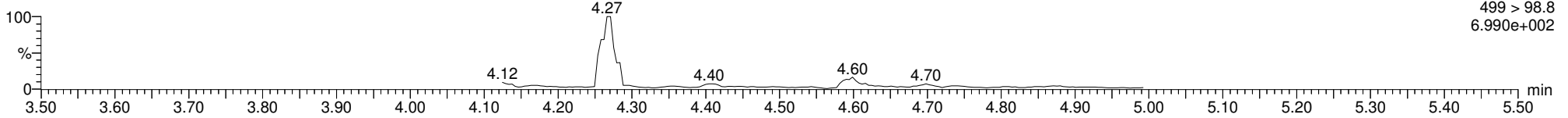
170309G2_12

F5:MRM of 12 channels,ES-
499 >79.9
6.876e+002



170309G2_12

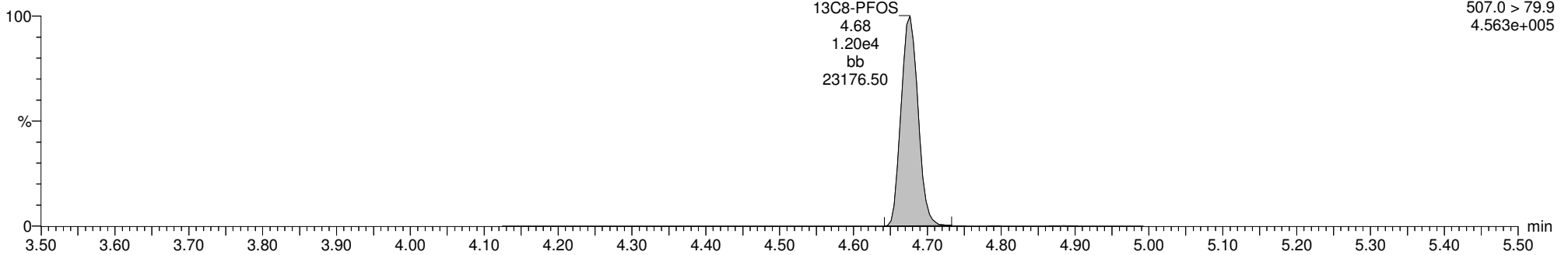
F5:MRM of 12 channels,ES-
499 > 98.8
6.990e+002



13C8-PFOS

170309G2_12

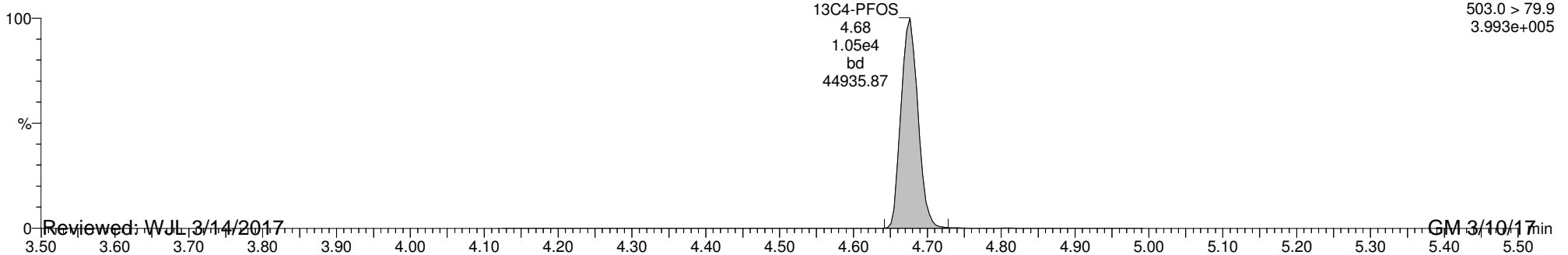
F5:MRM of 12 channels,ES-
507.0 > 79.9
4.563e+005



13C4-PFOS

170309G2_12

F5:MRM of 12 channels,ES-
503.0 > 79.9
3.993e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-13.qld

Last Altered: Tuesday, March 14, 2017 10:59:33 Pacific Daylight Time

Printed: Tuesday, March 14, 2017 11:05:18 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-07 WI-CV-GW07M-0317 0.125, Description: WI-CV-GW07M-0317, Name: 170309G2_13, Date: 09-Mar-2017, Time: 18:06:27

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.935e3		0.128			
2	2 PFHpA	363 > 318.9		1.683e4		0.128			
3	3 PFHxS	398.9 > 79.6	6.125e1	7.680e3		0.128	4.00		
4	4 PFOA	413 > 368.7	1.886e2	3.580e4		0.128	4.28		
5	5 PFNA	463 > 418.8		1.042e4		0.128			
6	6 PFOS	499 > 79.9	5.385e0	1.137e4		0.128	4.68	0.844	
7	7 13C3-PFBS	302.0 > 98.8	6.935e3	1.510e4	0.410	0.128	3.00	109	112
8	8 13C4-PFHxA	367.2 > 321.8	1.683e4	1.510e4	1.098	0.128	3.89	99.0	102
9	9 18O2-PFHxS	403 > 102.6	7.680e3	1.510e4	0.434	0.128	4.00	114	117
10	10 13C2-PFOA	414.9 > 369.7	3.580e4	8.628e3	4.608	0.128	4.28	87.8	90.0
11	11 13C5-PFNA	468.2 > 422.9	1.042e4	1.096e4	0.867	0.128	4.62	107	110
12	12 13C8-PFOS	507.0 > 79.9	1.137e4	9.610e3	0.958	0.128	4.68	120	124
13	13 13C5-PFHxA	318 > 272.9	2.316e4	2.316e4	1.000	0.128	3.37	97.5	100
14	14 13C3-PFHxS	401.9 > 79.9	1.510e4	1.510e4	1.000	0.128	4.00	97.5	100
15	15 13C8-PFOA	421.3 > 376	8.628e3	8.628e3	1.000	0.128	4.28	97.5	100
16	16 13C9-PFNA	472.2 > 426.9	1.096e4	1.096e4	1.000	0.128	4.62	97.5	100
17	17 13C4-PFOS	503.0 > 79.9	9.610e3	9.610e3	1.000	0.128	4.68	97.5	100
18	18 Total PFBS	299 > 79.7		7.680e3		0.128			
19	19 Total PFHxS	398.9 > 79.6		7.680e3		0.128			
20	20 Total PFOA	413 > 368.7		3.580e4		0.128			
21	21 Total PFOS	499 > 79.9		1.137e4		0.128		0.844	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-13.qld

Last Altered: Tuesday, March 14, 2017 10:59:33 Pacific Daylight Time

Printed: Tuesday, March 14, 2017 11:05:18 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-07 WI-CV-GW07M-0317 0.125, Description: WI-CV-GW07M-0317, Name: 170309G2_13, Date: 09-Mar-2017, Time: 18:06:27

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFHxS	398.9 > 79.6	4.00	61.252	7680.350	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	188.594	35798.289	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1	6 PFOS	499 > 79.9	4.68	5.385	11373.567	0.8

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-13.qld

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Printed: Tuesday, March 14, 2017 11:05:18 Pacific Daylight Time

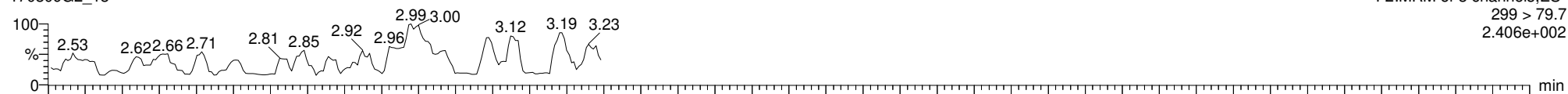
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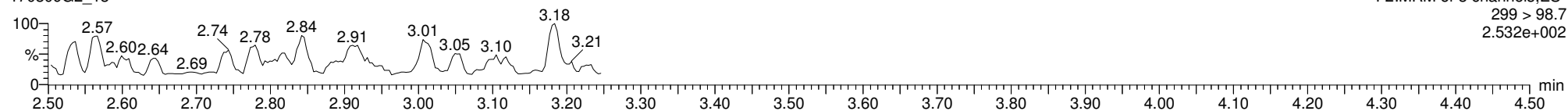
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PFBS

170309G2_13

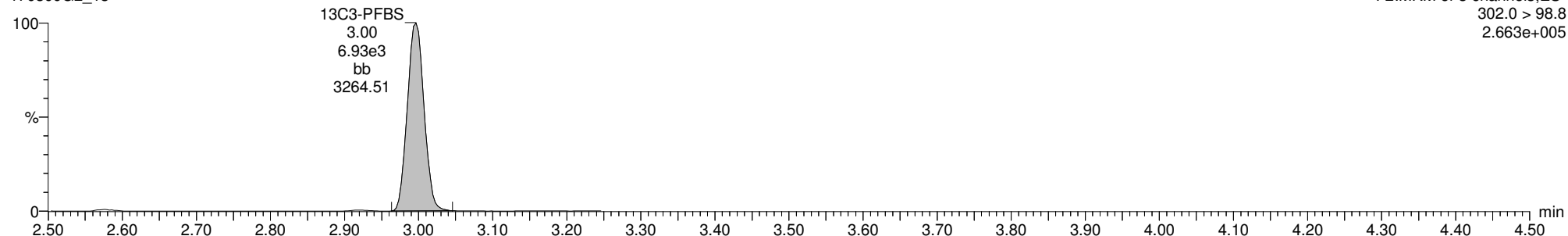


170309G2_13



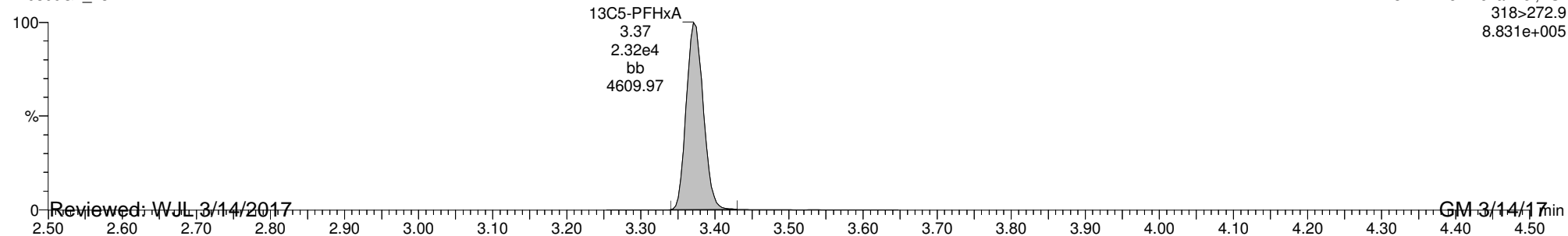
13C3-PFBS

170309G2_13



13C5-PFHxA

170309G2_13



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-13.qld

Last Altered: Tuesday, March 14, 2017 10:59:33 Pacific Daylight Time

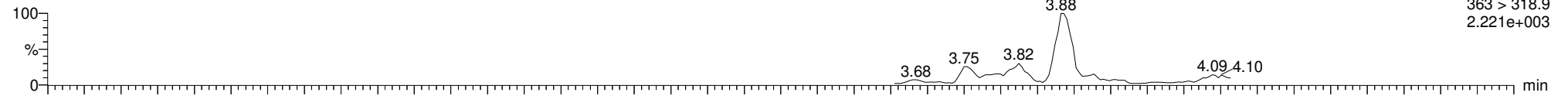
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ID: 1700296-07 WI-CV-GW07M-0317 0.125, Description: WI-CV-GW07M-0317, Name: 170309G2_13, Date: 09-Mar-2017, Time: 18:06:27, Instrument: , Lab: , User:

PFHpA

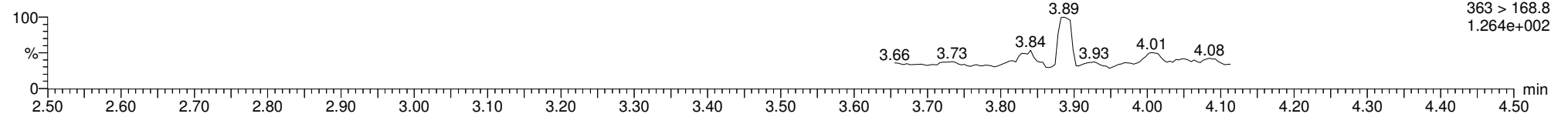
170309G2_13

F4:MRM of 7 channels,ES-
363 > 318.9
2.221e+003



170309G2_13

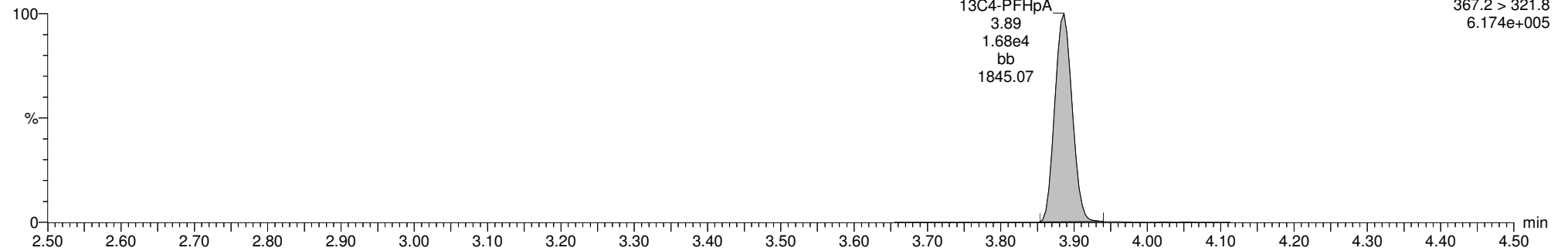
F4:MRM of 7 channels,ES-
363 > 168.8
1.264e+002



13C4-PFHpA

170309G2_13

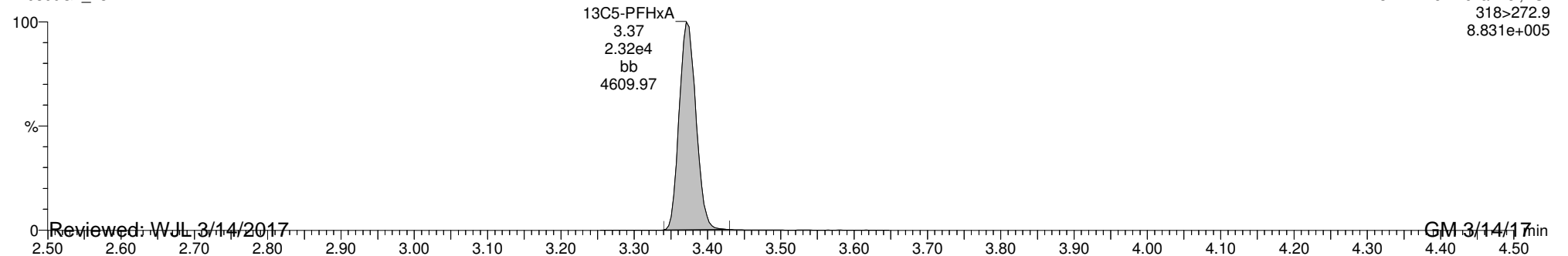
F4:MRM of 7 channels,ES-
367.2 > 321.8
6.174e+005



13C5-PFHxA

170309G2_13

F3:MRM of 1 channel,ES-
318>272.9
8.831e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-13.qld

Last Altered: Tuesday, March 14, 2017 10:59:33 Pacific Daylight Time

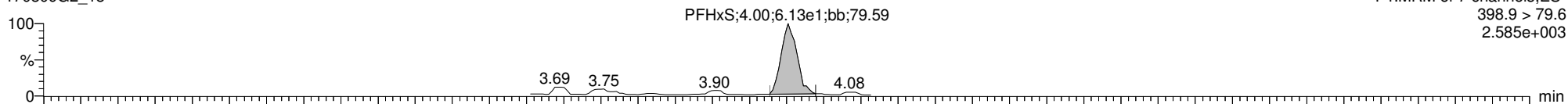
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ID: 1700296-07 WI-CV-GW07M-0317 0.125, Description: WI-CV-GW07M-0317, Name: 170309G2_13, Date: 09-Mar-2017, Time: 18:06:27, Instrument: , Lab: , User:

Total PFHxS

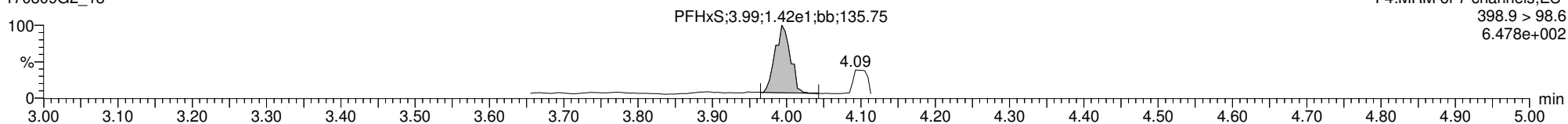
170309G2_13

F4:MRM of 7 channels,ES-
398.9 > 79.6
2.585e+003



170309G2_13

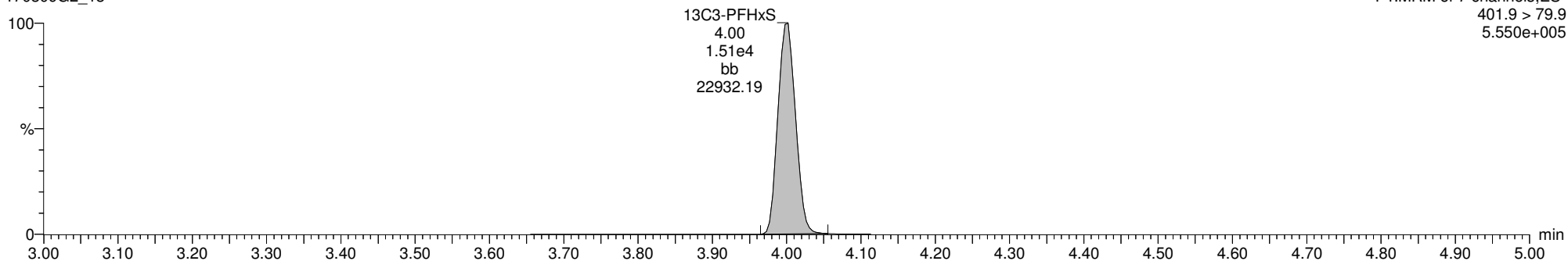
F4:MRM of 7 channels,ES-
398.9 > 98.6
6.478e+002



13C3-PFHxS

170309G2_13

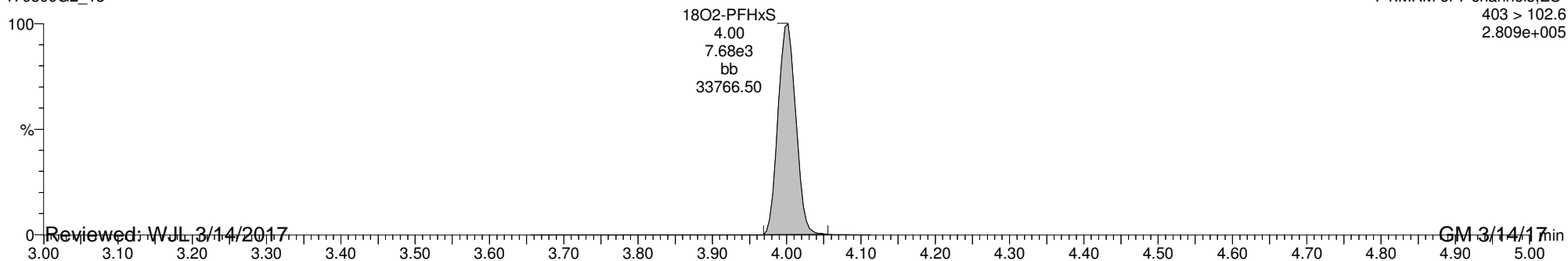
F4:MRM of 7 channels,ES-
401.9 > 79.9
5.550e+005



18O2-PFHxS

170309G2_13

F4:MRM of 7 channels,ES-
403 > 102.6
2.809e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-13.qld

Last Altered: Tuesday, March 14, 2017 10:59:33 Pacific Daylight Time

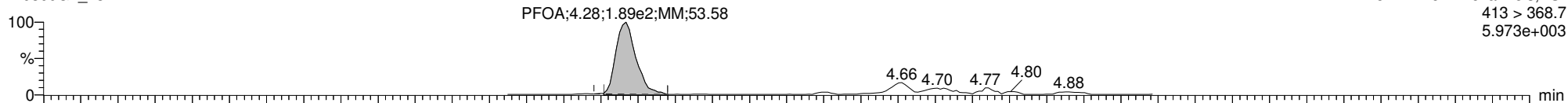
Printed: Tuesday, March 14, 2017 11:05:18 Pacific Daylight Time

ID: 1700296-07 WI-CV-GW07M-0317 0.125, Description: WI-CV-GW07M-0317, Name: 170309G2_13, Date: 09-Mar-2017, Time: 18:06:27, Instrument: , Lab: , User:

Total PFOA

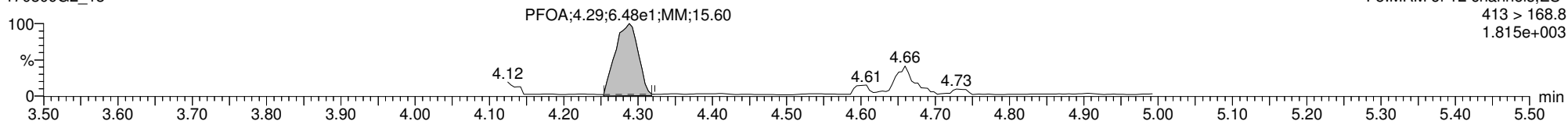
170309G2_13

F5:MRM of 12 channels,ES-
413 > 368.7
5.973e+003



170309G2_13

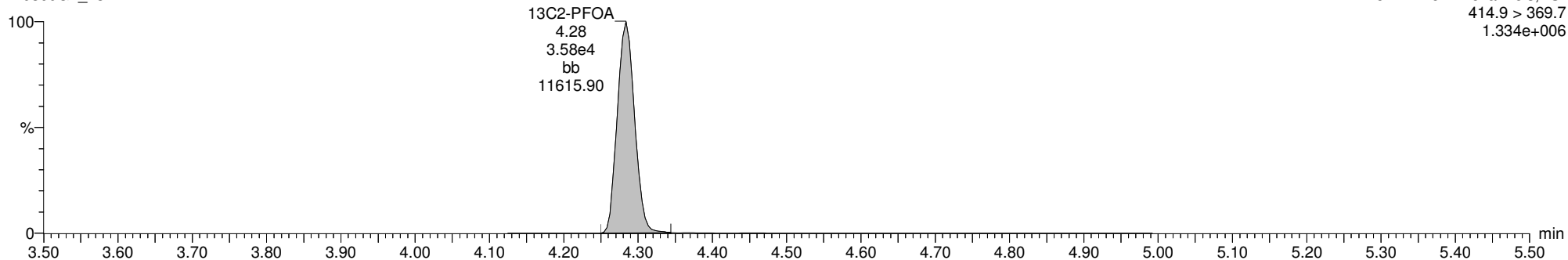
F5:MRM of 12 channels,ES-
413 > 168.8
1.815e+003



13C2-PFOA

170309G2_13

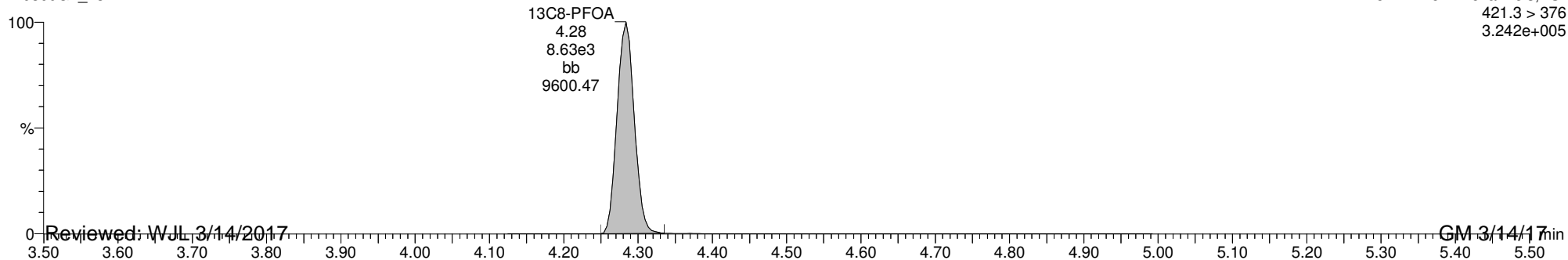
F5:MRM of 12 channels,ES-
414.9 > 369.7
1.334e+006



13C8-PFOA

170309G2_13

F5:MRM of 12 channels,ES-
421.3 > 376
3.242e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-13.qld

Last Altered: Tuesday, March 14, 2017 10:59:33 Pacific Daylight Time

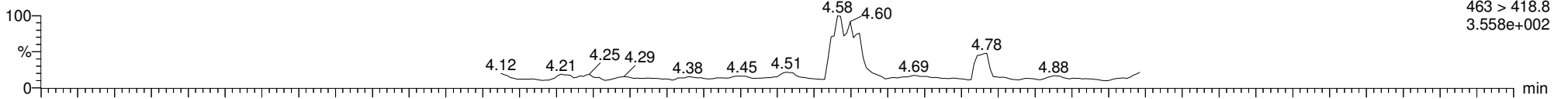
Printed: Tuesday, March 14, 2017 11:05:18 Pacific Daylight Time

ID: 1700296-07 WI-CV-GW07M-0317 0.125, Description: WI-CV-GW07M-0317, Name: 170309G2_13, Date: 09-Mar-2017, Time: 18:06:27, Instrument: , Lab: , User:

PFNA

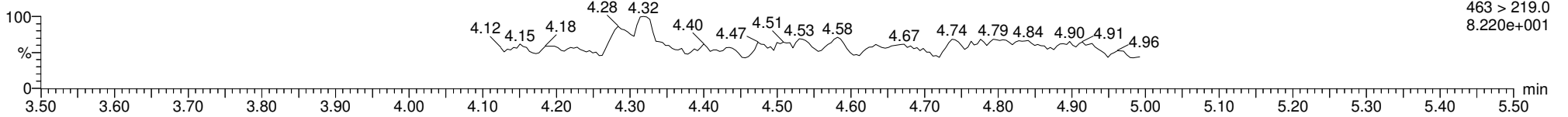
170309G2_13

F5:MRM of 12 channels,ES-
463 > 418.8
3.558e+002



170309G2_13

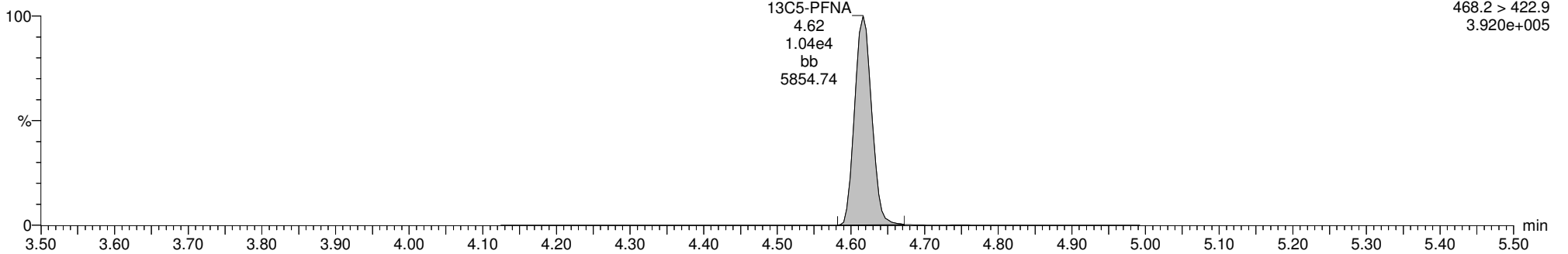
F5:MRM of 12 channels,ES-
463 > 219.0
8.220e+001



13C5-PFNA

170309G2_13

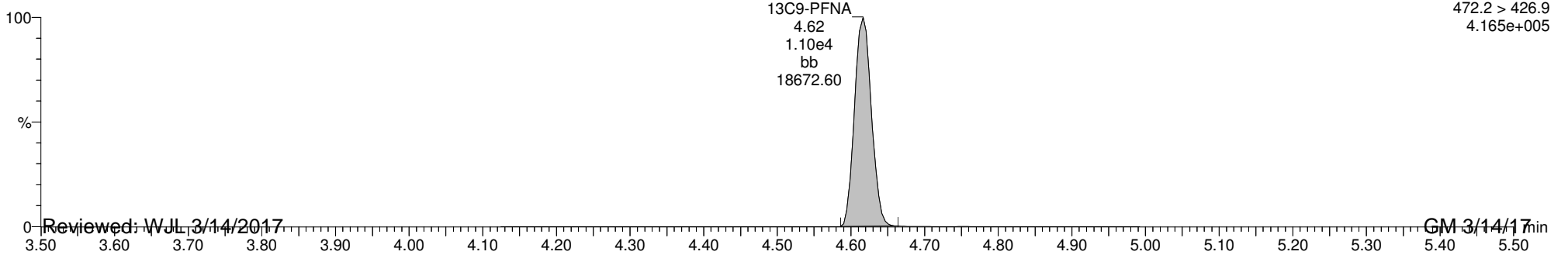
F5:MRM of 12 channels,ES-
468.2 > 422.9
3.920e+005



13C9-PFNA

170309G2_13

F5:MRM of 12 channels,ES-
472.2 > 426.9
4.165e+005



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-13.qld

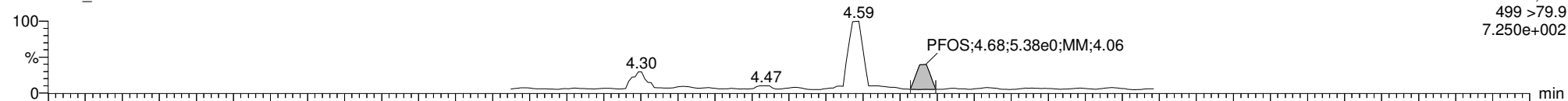
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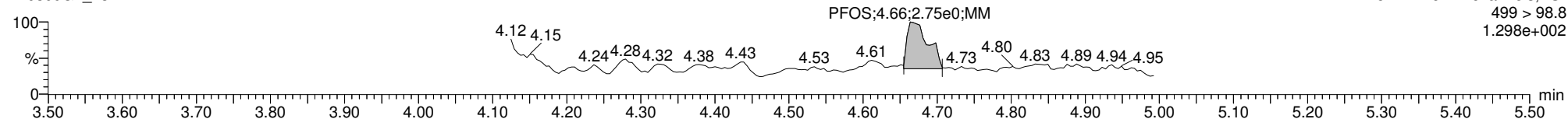
ID: 1700296-07 WI-CV-GW07M-0317 0.125, Description: WI-CV-GW07M-0317, Name: 170309G2_13, Date: 09-Mar-2017, Time: 18:06:27, Instrument: , Lab: , User:

Total PFOS

170309G2_13

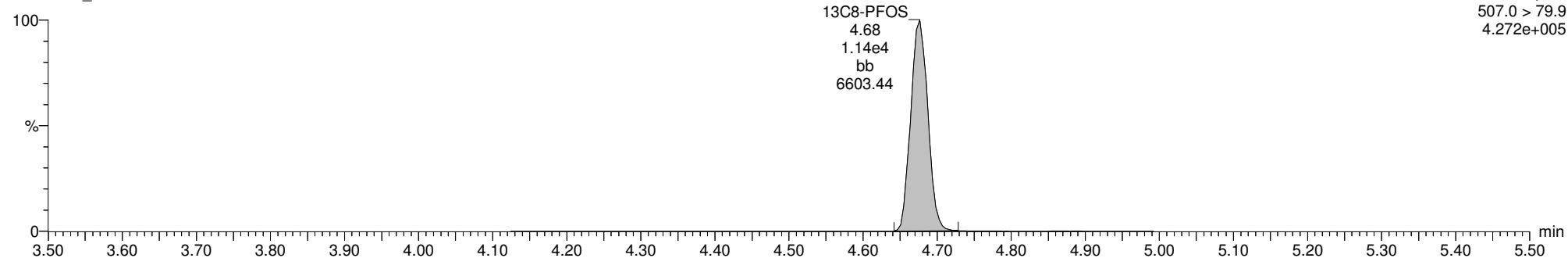


170309G2_13



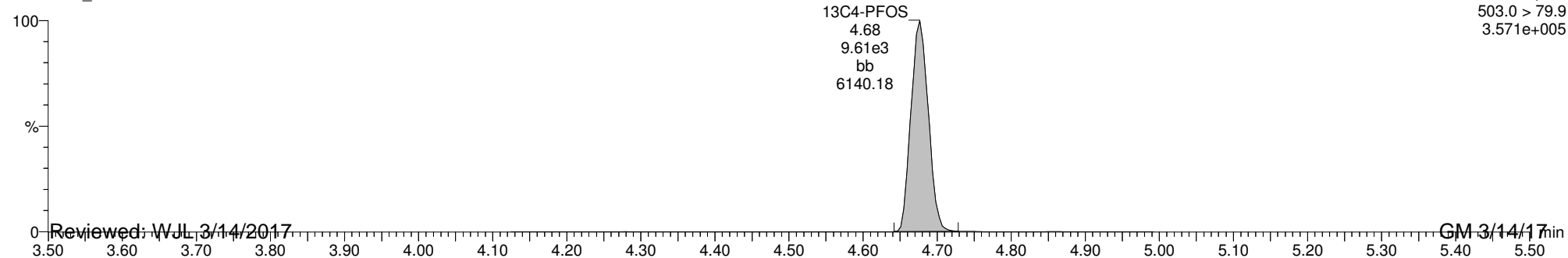
13C8-PFOS

170309G2_13



13C4-PFOS

170309G2_13



Reviewed: WJL 3/14/2017

GM 3/14/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-14.qld

Last Altered: Friday, March 10, 2017 2:46:56 PM Pacific Standard Time

Printed: Friday, March 10, 2017 2:47:14 PM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-08 WI-CV-EB14-030417 0.125, Description: WI-CV-EB14-030417, Name: 170309G2_14, Date: 09-Mar-2017, Time: 18:18:56

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	2.880e0	6.182e3		0.128	3.00		
2	4 PFOA	413 > 368.7	1.344e2	2.985e4		0.128	4.28		
3	6 PFOS	499 >79.9		9.086e3		0.128			
4	7 13C3-PFBS	302.0 > 98.8	6.182e3	1.367e4	0.410	0.128	3.00	108	110
5	10 13C2-PFOA	414.9 > 369.7	2.985e4	6.374e3	4.608	0.128	4.28	99.3	102
6	12 13C8-PFOS	507.0 > 79.9	9.086e3	8.332e3	0.958	0.128	4.68	111	114
7	15 13C8-PFOA	421.3 > 376	6.374e3	6.374e3	1.000	0.128	4.28	97.8	100
8	17 13C4-PFOS	503.0 > 79.9	8.332e3	8.332e3	1.000	0.128	4.68	97.8	100

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-14.qld

Last Altered: Friday, March 10, 2017 2:46:56 PM Pacific Standard Time

Printed: Friday, March 10, 2017 2:47:25 PM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-08 WI-CV-EB14-030417 0.125, Description: WI-CV-EB14-030417, Name: 170309G2_14, Date: 09-Mar-2017, Time: 18:18:56

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		7.045e3		0.128			
2	20 Total PFOA	413 > 368.7		2.985e4		0.128			
3	21 Total PFOS	499 > 79.9		9.086e3		0.128			

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-14.qld

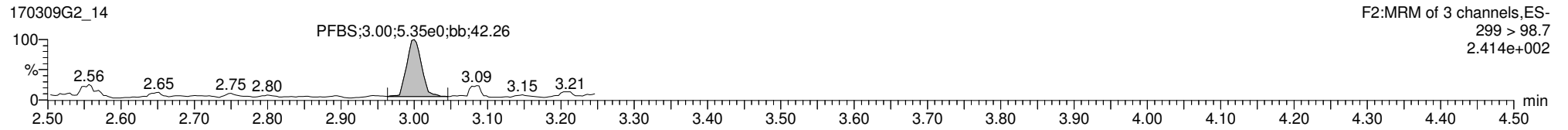
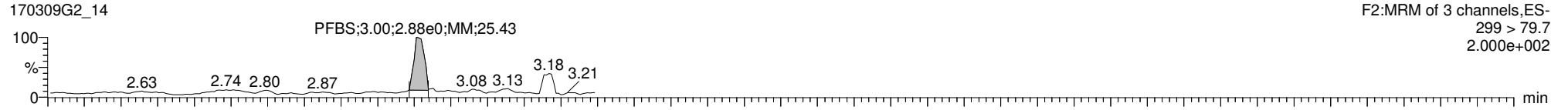
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Printed: Friday, March 10, 2017 2:47:14 PM Pacific Standard Time

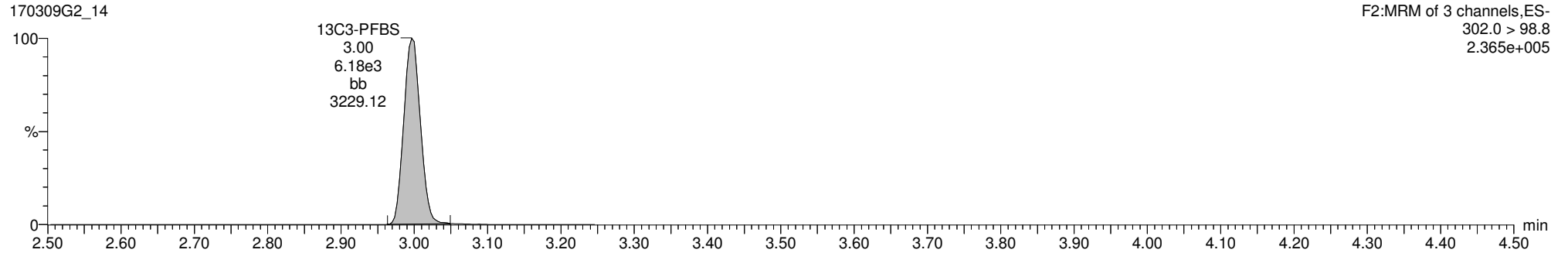
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700296-08 WI-CV-EB14-030417 0.125, Description: WI-CV-EB14-030417, Name: 170309G2_14, Date: 09-Mar-2017, Time: 18:18:56, Instrument: , Lab: , User:

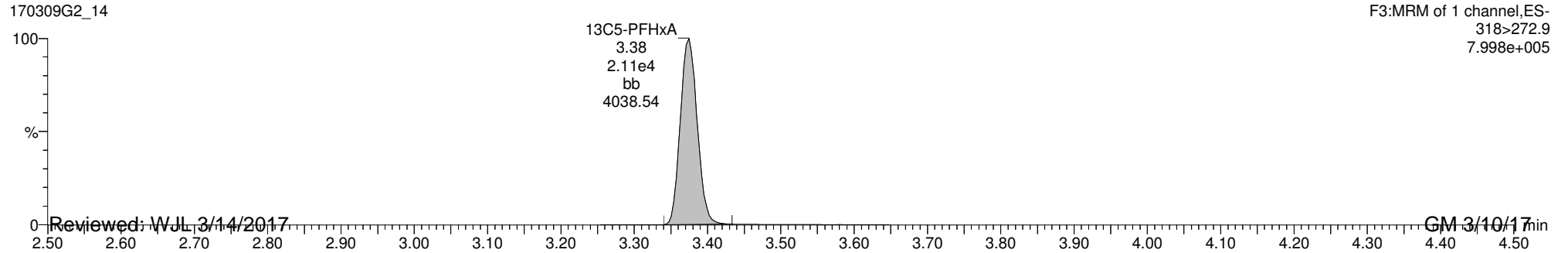
PFBS



13C3-PFBS



13C5-PFHxA



Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-14.qld

Last Altered: Friday, March 10, 2017 2:46:56 PM Pacific Standard Time

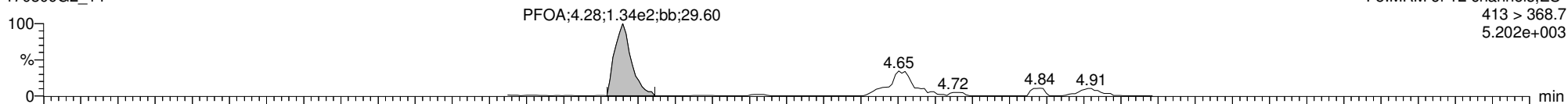
Printed: Friday, March 10, 2017 2:47:14 PM Pacific Standard Time

ID: 1700296-08 WI-CV-EB14-030417 0.125, Description: WI-CV-EB14-030417, Name: 170309G2_14, Date: 09-Mar-2017, Time: 18:18:56, Instrument: , Lab: , User:

Total PFOA

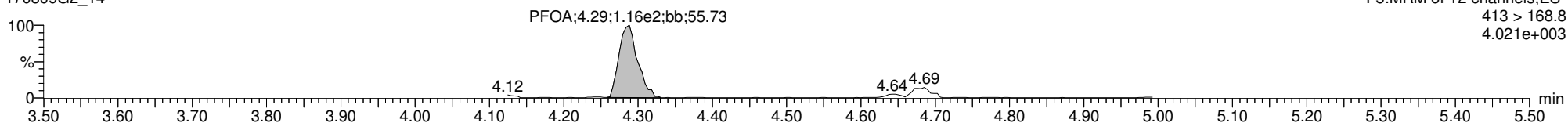
170309G2_14

F5:MRM of 12 channels,ES-
413 > 368.7
5.202e+003



170309G2_14

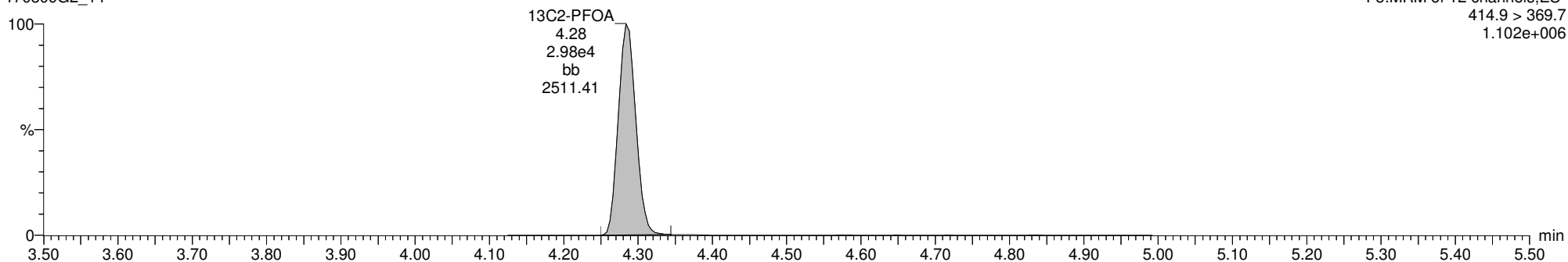
F5:MRM of 12 channels,ES-
413 > 168.8
4.021e+003



13C2-PFOA

170309G2_14

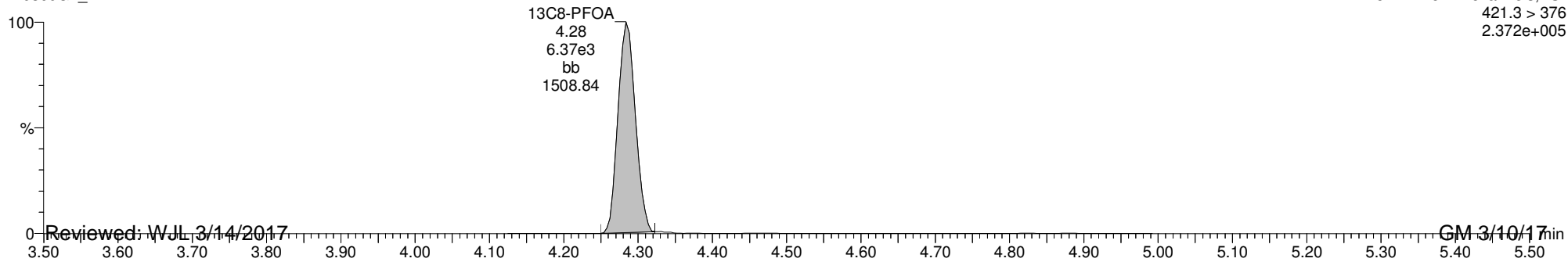
F5:MRM of 12 channels,ES-
414.9 > 369.7
1.102e+006



13C8-PFOA

170309G2_14

F5:MRM of 12 channels,ES-
421.3 > 376
2.372e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-14.qld

Last Altered: Friday, March 10, 2017 2:46:56 PM Pacific Standard Time

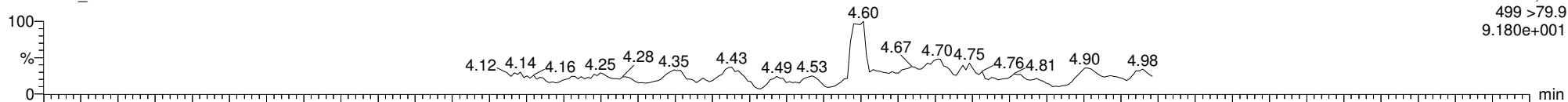
Printed: Friday, March 10, 2017 2:47:14 PM Pacific Standard Time

ID: 1700296-08 WI-CV-EB14-030417 0.125, Description: WI-CV-EB14-030417, Name: 170309G2_14, Date: 09-Mar-2017, Time: 18:18:56, Instrument: , Lab: , User:

Total PFOS

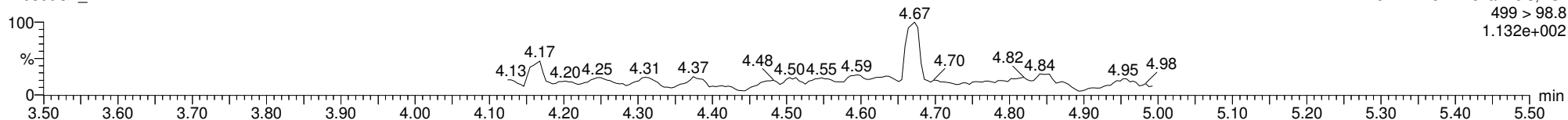
170309G2_14

F5:MRM of 12 channels,ES-
499 >79.9
9.180e+001



170309G2_14

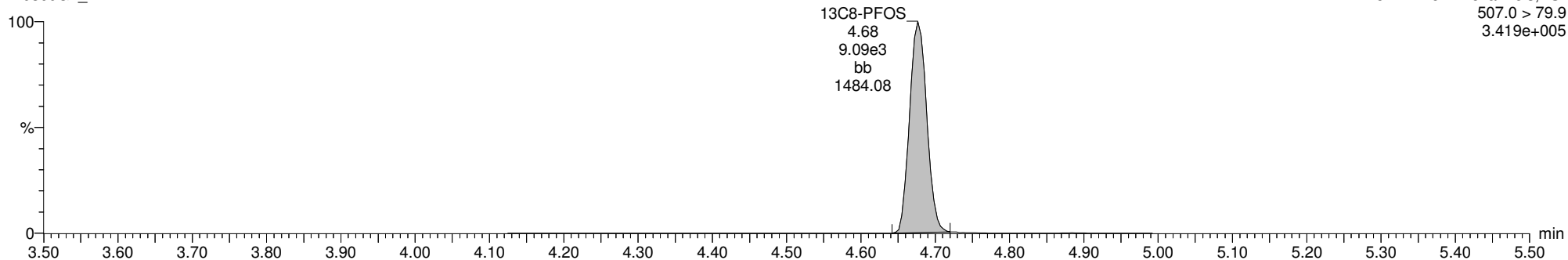
F5:MRM of 12 channels,ES-
499 > 98.8
1.132e+002



13C8-PFOS

170309G2_14

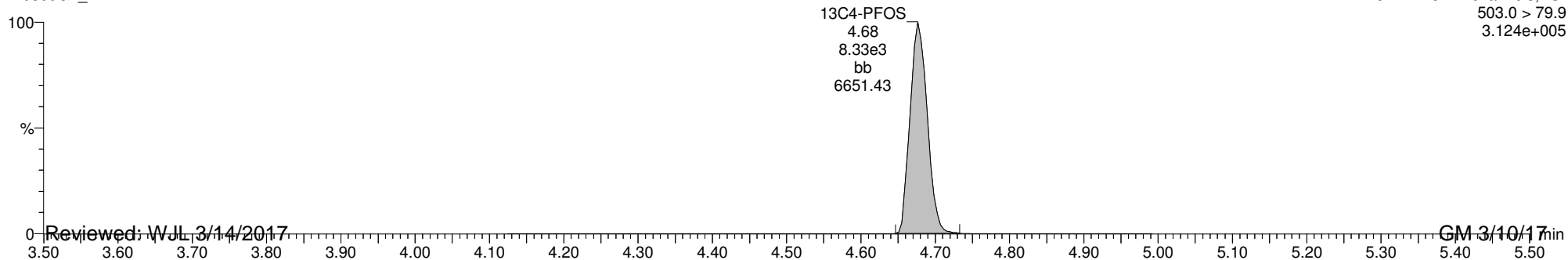
F5:MRM of 12 channels,ES-
507.0 > 79.9
3.419e+005



13C4-PFOS

170309G2_14

F5:MRM of 12 channels,ES-
503.0 > 79.9
3.124e+005



Reviewed: WJL 3/14/2017

GM 3/10/17

CONTINUING CALIBRATION

Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-2.qld

Last Altered: Friday, March 10, 2017 08:32:33 Pacific Standard Time

Printed: Friday, March 10, 2017 08:33:02 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Name: 170309G2_2, Date: 09-Mar-2017, Time: 15:48:23, ID: ST170309G2-1 PFC CS2 17C0905, Description: PFC CS2 17C0905 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	6.39e3	7.72e3		1.000	2.99	4.32	86.4
2	2 PFHpA	363 > 318.9	1.18e4	1.80e4		1.000	3.88	4.49	89.7
3	3 PFHxS	398.9 > 79.6	5.02e3	7.78e3		1.000	4.00	4.40	87.9
4	4 PFOA	413 > 368.7	1.18e4	3.52e4		1.000	4.28	5.02	100.4
5	5 PFNA	463 > 418.8	8.82e3	1.01e4		1.000	4.61	3.94	78.7
6	6 PFOS	499 > 79.9	1.55e3	9.20e3		1.000	4.67	3.99	79.9
7	7 13C3-PFBS	302.0 > 98.8	7.72e3	1.75e4	0.410	1.000	2.99	13.5	107.8
8	8 13C4-PFHpA	367.2 > 321.8	1.80e4	1.75e4	1.098	1.000	3.88	11.7	93.7
9	9 18O2-PFHxS	403 > 102.6	7.78e3	1.75e4	0.434	1.000	4.00	12.8	102.5
10	10 13C2-PFOA	414.9 > 369.7	3.52e4	9.52e3	4.608	1.000	4.28	10.0	80.3
11	11 13C5-PFNA	468.2 > 422.9	1.01e4	1.13e4	0.867	1.000	4.62	12.9	103.3
12	12 13C8-PFOS	507.0 > 79.9	9.20e3	9.01e3	0.958	1.000	4.67	13.3	106.6
13	13 13C5-PFHxA	318 > 272.9	2.97e4	2.97e4	1.000	1.000	3.37	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.75e4	1.75e4	1.000	1.000	4.00	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	9.52e3	9.52e3	1.000	1.000	4.28	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.13e4	1.13e4	1.000	1.000	4.61	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	9.01e3	9.01e3	1.000	1.000	4.68	12.5	100.0

75-125
↓
60-150
↓
50-150
60-150
↓
3/10/17

ES 3/10/17

Dataset: Untitled

Last Altered: Friday, March 10, 2017 08:58:05 Pacific Standard Time

Printed: Friday, March 10, 2017 08:58:22 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170309G2_1	IPA	09-Mar-17	15:36:10
2	170309G2_2	ST170309G2-1 PFC CS2 17C0905	09-Mar-17	15:48:23
3	170309G2_3	IPA	09-Mar-17	16:01:07
4	170309G2_4	B7C0034-BS1 OPR 0.125	09-Mar-17	16:13:33
5	170309G2_5	IPA	09-Mar-17	16:26:02
6	170309G2_6	B7C0034-BLK1 Method Blank 0.125	09-Mar-17	16:38:38
7	170309G2_7	1700296-01 WI-CV-GW08M-0317 0.125	09-Mar-17	16:51:08
8	170309G2_8	1700296-02 WI-CV-EB12-030317 0.125	09-Mar-17	17:03:41
9	170309G2_9	1700296-03 WI-CV-GW07S-0317 0.125	09-Mar-17	17:16:14
10	170309G2_10	1700296-04 WI-CV-EB13-030417 0.125	09-Mar-17	17:28:47
11	170309G2_11	1700296-05 WI-CV-GW14M-0317 0.125	09-Mar-17	17:41:21
12	170309G2_12	1700296-06 WI-CV-GW13S-0317 0.125	09-Mar-17	17:53:53
13	170309G2_13	1700296-07 WI-CV-GW07M-0317 0.125	09-Mar-17	18:06:27
14	170309G2_14	1700296-08 WI-CV-EB14-030417 0.125	09-Mar-17	18:18:56
15	170309G2_15	1700298-01 Kitchen Sink 0.125	09-Mar-17	18:31:30
16	170309G2_16	IPA	09-Mar-17	18:44:03
17	170309G2_17	ST170309G2-2 PFC CS2 17C0905	09-Mar-17	18:56:38
18	170309G2_18	IPA	09-Mar-17	19:09:10

LC Calibration Standards Review Checklist

Q1

Calibration ID:	L M H	ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
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<u>↓ -2</u>	<u>LMH</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>↓</u>
_____	LMH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	LMH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Full Mass Cal. Date: 12/7/16

Run Log Present:

of Samples per Sequence Checked:

Reviewed By: am 3/10/17
Initials/Date

Comments:
List 6.

Dataset: Untitled

Last Altered: Friday, March 10, 2017 08:27:57 Pacific Standard Time

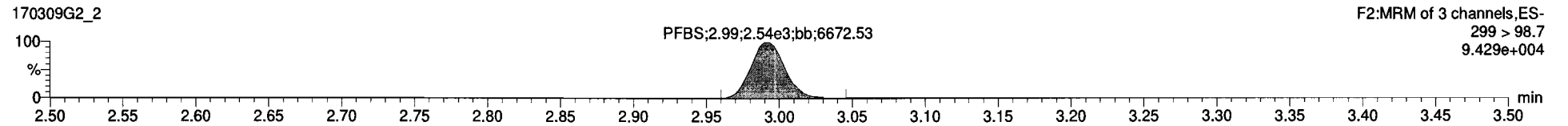
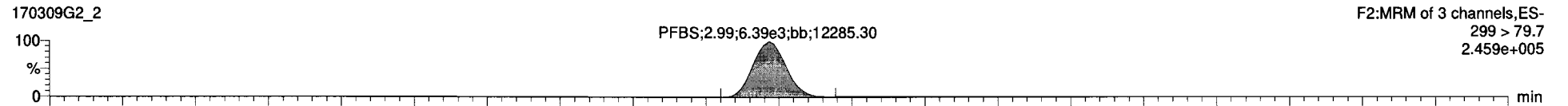
Printed: Friday, March 10, 2017 08:28:35 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

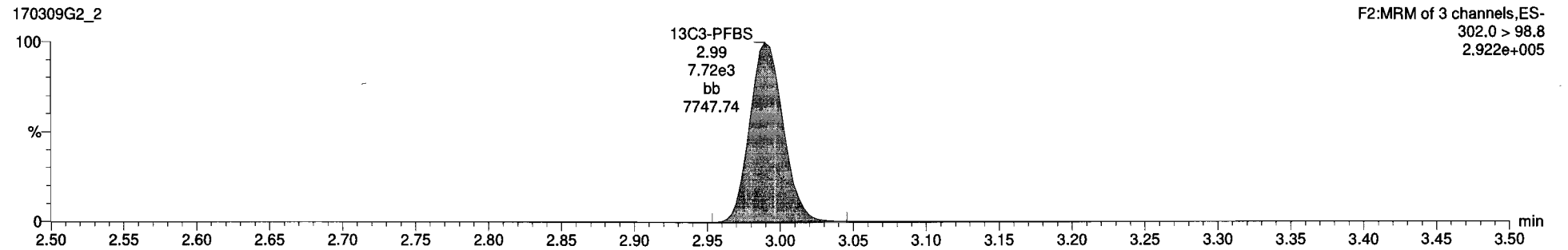
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

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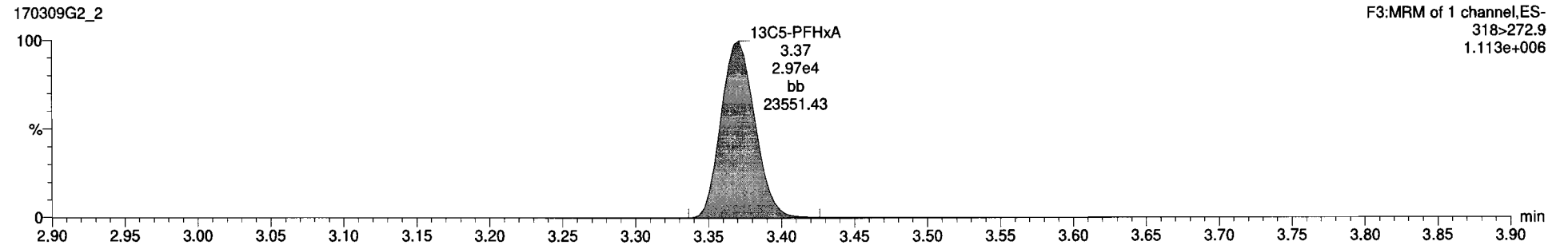
PFBS



13C3-PFBS



13C5-PFHxA



Dataset: Untitled

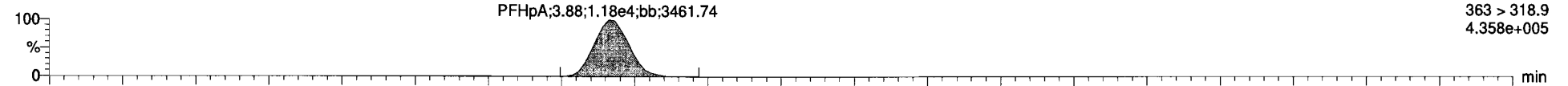
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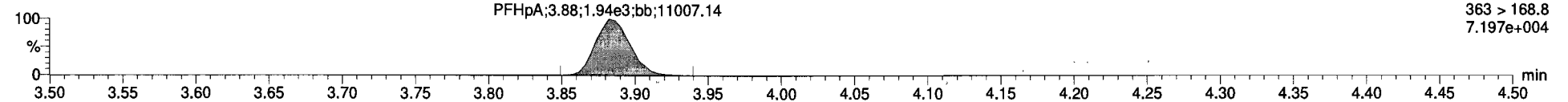
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PFHpA

170309G2_2

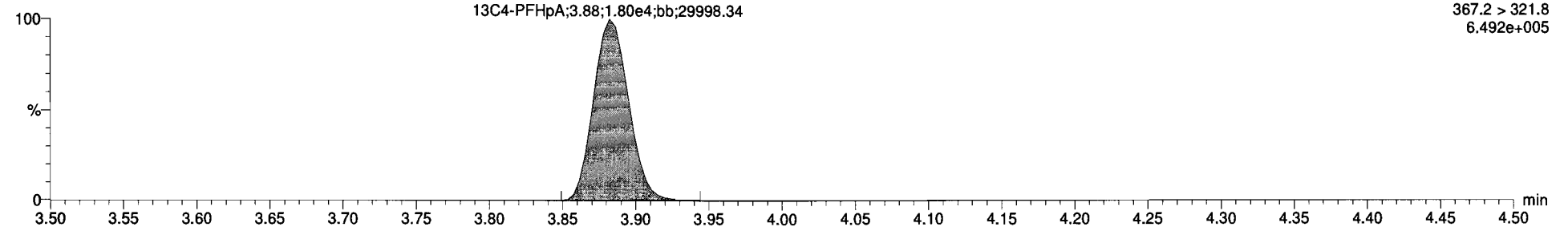


170309G2_2



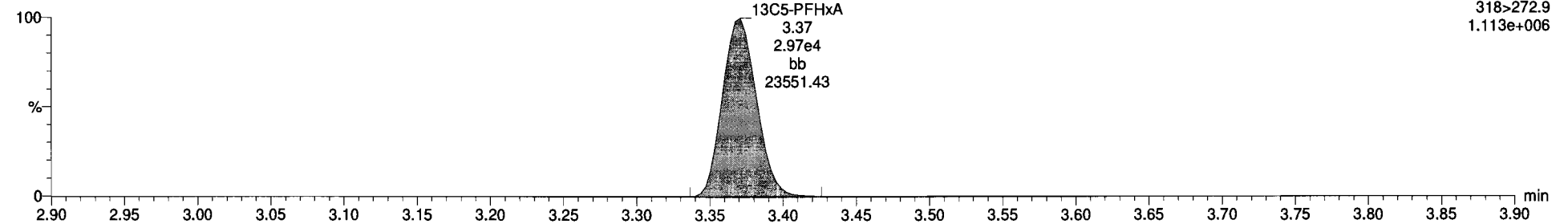
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170309G2_2



13C5-PFHxA

170309G2_2



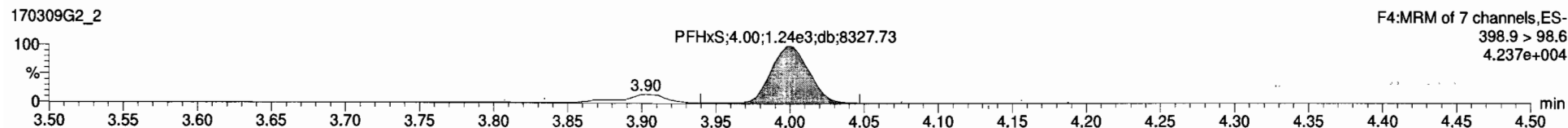
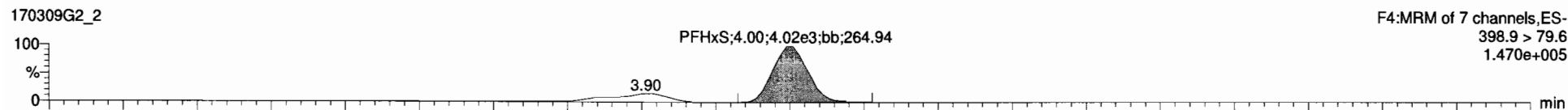
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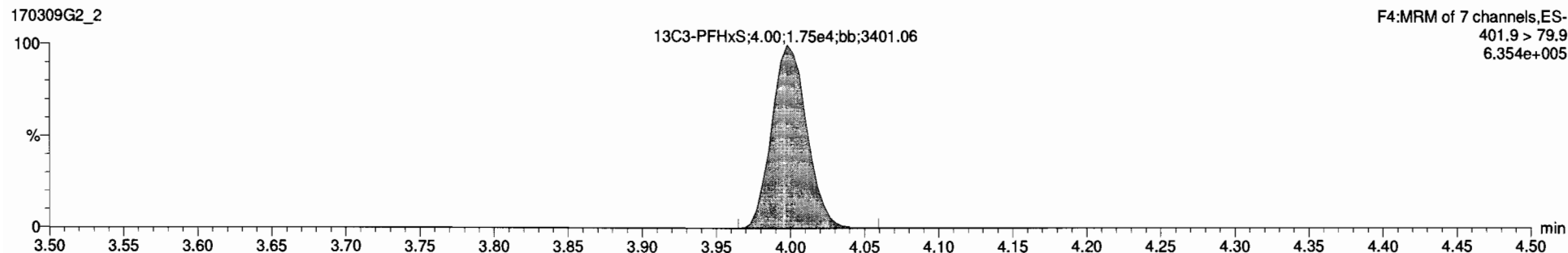
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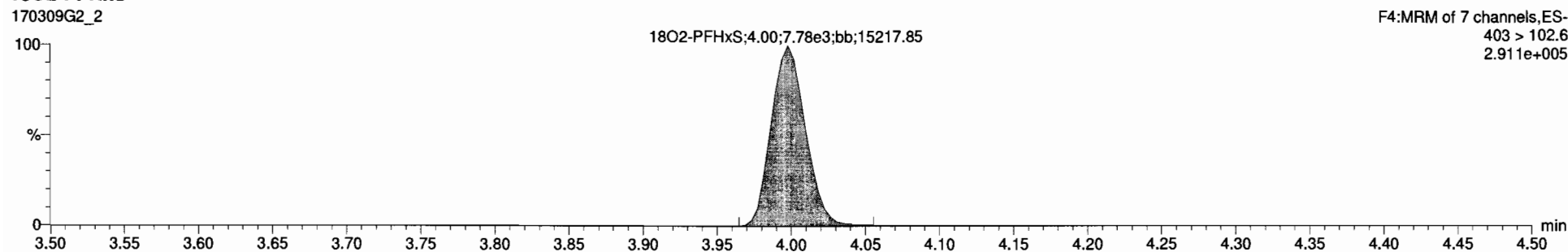
PFHxS



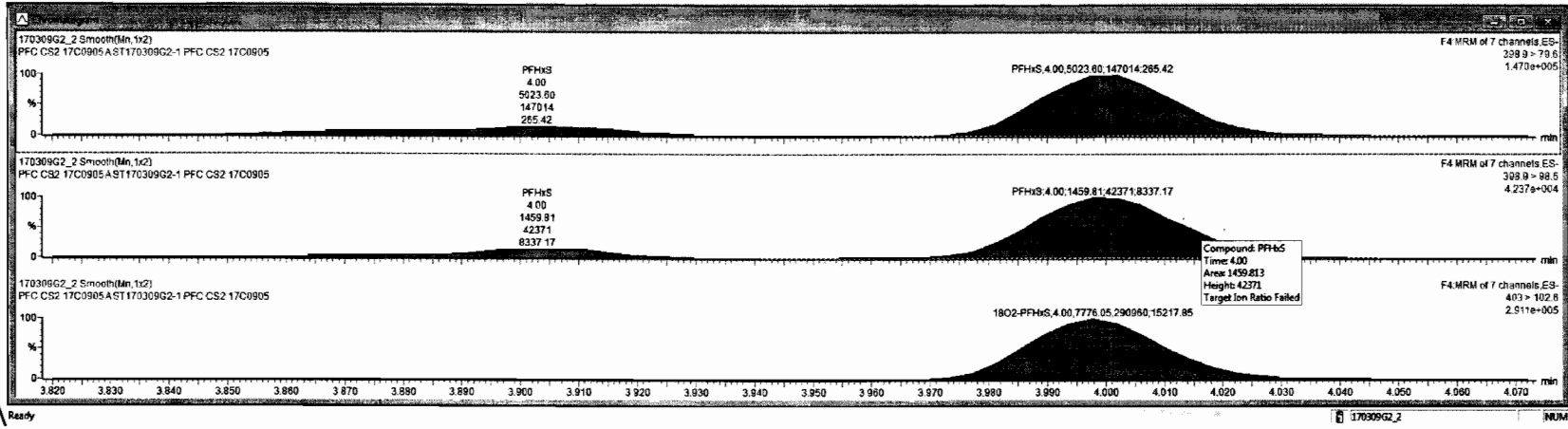
13C3-PFHxS



18O2-PFHxS



#	Name	Traces	Area	PF	WtVal	Prod.RT	RT	Conc.	SMOL	%Rec	DL
1	PFBS	299 > 79.7	6.39e3		1.000	2.99	2.99	4.32	NO	96.4	0.0000000
2	PFHxA	383 > 318.9	1.18e4		1.000	3.88	3.88	4.49	NO	89.7	0.0000000
3	PFHxS	398.9 > 79.9	5.99e3		1.000	4.00	4.00	5.02	YES	87.6	0.0000000
4	PFDA	413 > 368.7	1.18e4		1.000	4.28	4.28	5.02	YES	100.4	0.0000000
5	PFNA	463 > 418.8	8.82e3		1.000	4.62	4.61	3.94	YES	78.7	0.0000000
6	PFOS	499 > 79.9	1.35e3		1.000	4.68	4.67	3.99	YES	79.9	0.1049103
7	13C3-PFBS	302.0 > 98.9	7.72e3	0.410	1.000	2.98	2.99	13.5	NO	107.8	0.0045209
8	13C4-PFHpA	367.2 > 321.8	1.00e4	1.10	1.000	3.88	3.88	11.7	NO	93.7	0.0009691
9	18O2-PFHxS	403 > 102.6	7.79e3	0.434	1.000	4.00	4.00	12.8	NO	102.5	0.0021667
10	13C2-PFDA	414.9 > 389.7	3.52e4	4.61	1.000	4.28	4.28	10.0	NO	80.3	0.0022274
11	13C5-PFNA	468.2 > 422.9	1.01e4	0.887	1.000	4.61	4.62	12.9	NO	103.3	0.0028529
12	13C5-PFOS	507.0 > 79.9	9.20e3	0.958	1.000	4.68	4.67	13.3	NO	106.6	0.0007787
13	13C5-PFHxA	318 > 272.9	2.97e4	1.00	1.000	3.29	3.37	12.5	NO	100.0	0.0013289
14	13C5-PFHxS	401.9 > 79.9	1.75e4	1.00	1.000	3.94	4.00	12.5	NO	100.0	0.0091683
15	13C5-PFDA	421.3 > 376	9.52e3	1.00	1.000	4.22	4.28	12.5	NO	100.0	0.0109072
16	13C5-PFNA	472.2 > 428.9	1.13e4	1.00	1.000	4.56	4.61	12.5	NO	100.0	0.0008898
17	13C4-PFOS	503.0 > 79.9	9.01e3	1.00	1.000	4.67	4.68	12.5	NO	100.0	0.0073231
18	Total PFBS	299 > 79.7	6.39e3		1.000	3.11					
19	Total PFHxS	398.9 > 79.6	5.99e3		1.000	4.09		5.14	NO		
20	Total PFDA	413 > 368.7	1.18e4		1.000	4.39		5.02	NO		
21	Total PFOS	499 > 79.9	1.89e3		1.000	4.67		5.05	NO		0.1049103



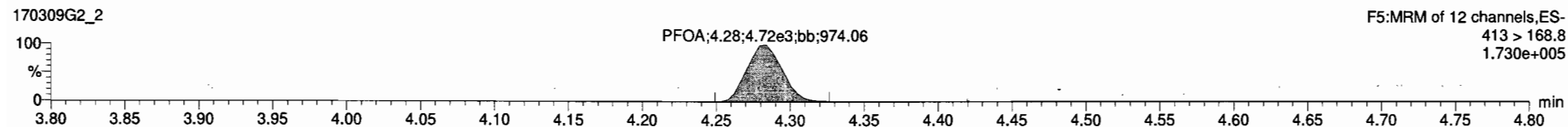
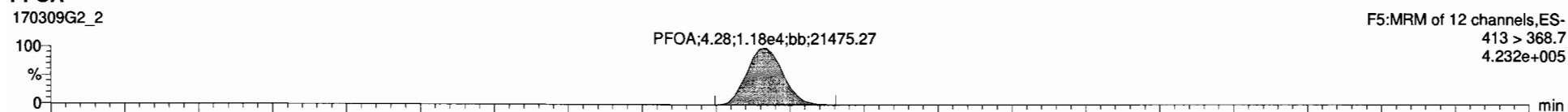
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Last Altered: Friday, March 10, 2017 08:27:57 Pacific Standard Time

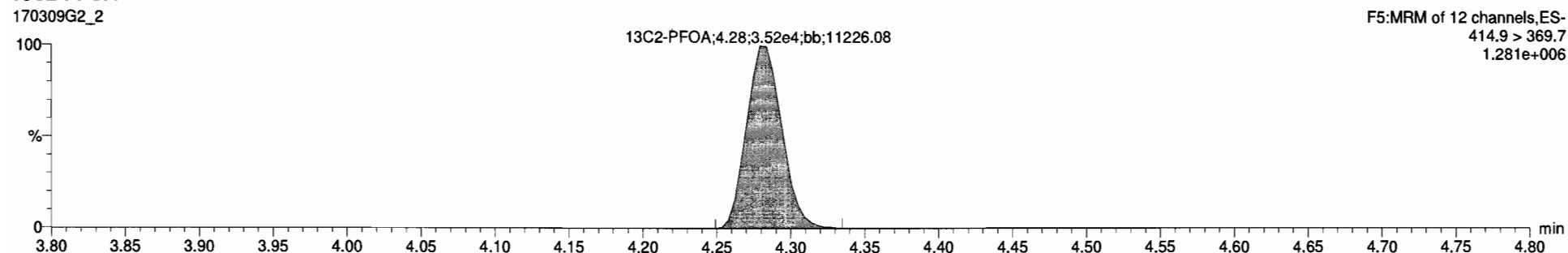
Printed: Friday, March 10, 2017 08:28:35 Pacific Standard Time

ID: ST170309G2-1 PFC CS2 17C0905, Description: PFC CS2 17C0905 A, Name: 170309G2_2, Date: 09-Mar-2017, Time: 15:48:23, Instrument: , Lab: , User:

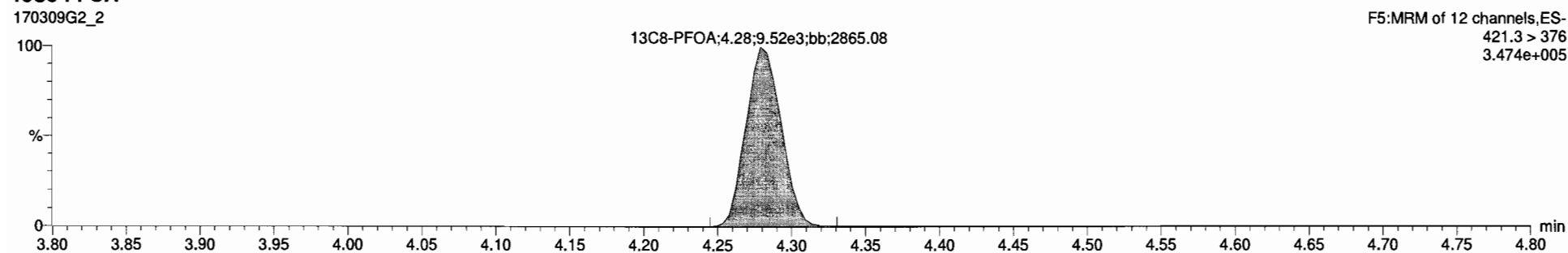
PFOA



13C2-PFOA



13C8-PFOA



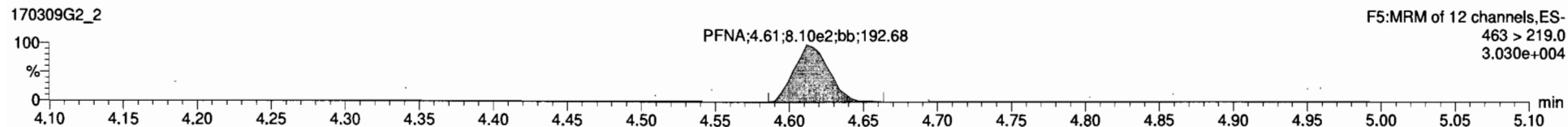
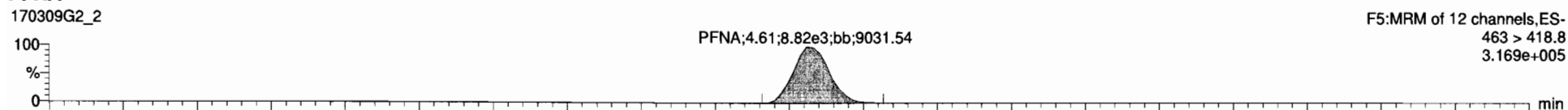
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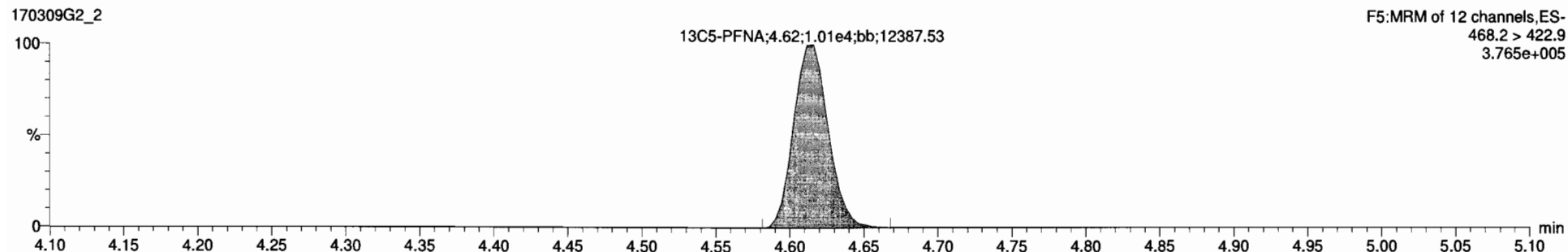
Printed: Friday, March 10, 2017 08:28:35 Pacific Standard Time

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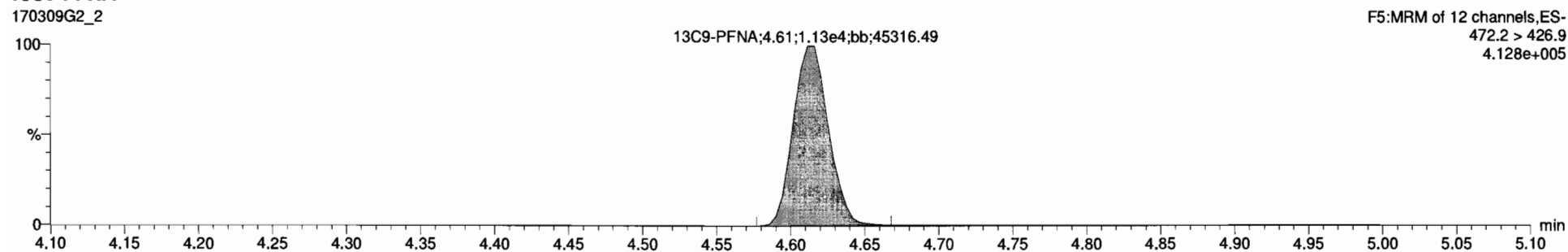
PFNA



13C5-PFNA



13C9-PFNA

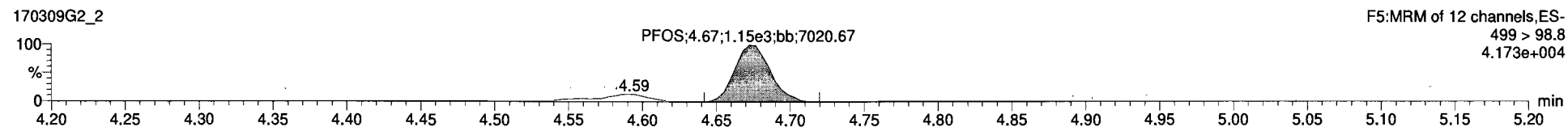
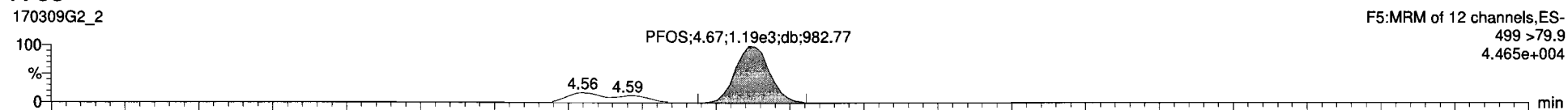


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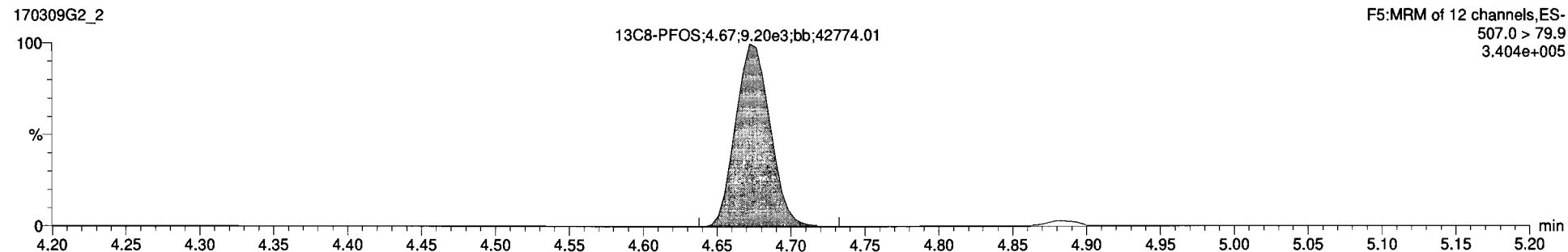
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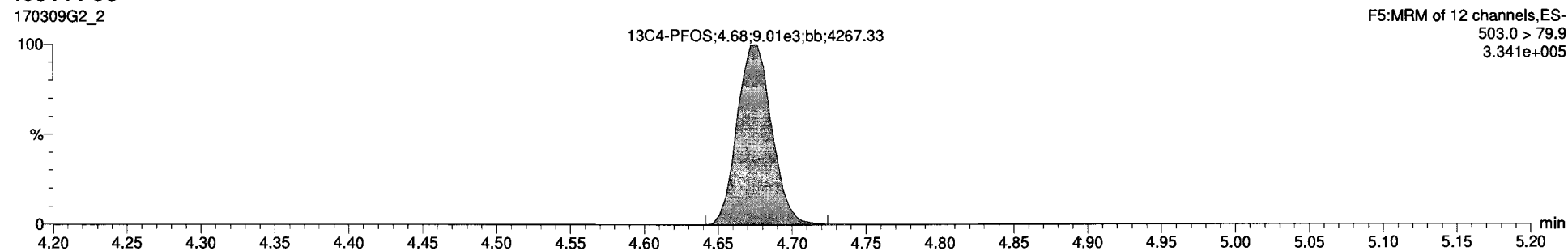
PFOS



13C8-PFOS



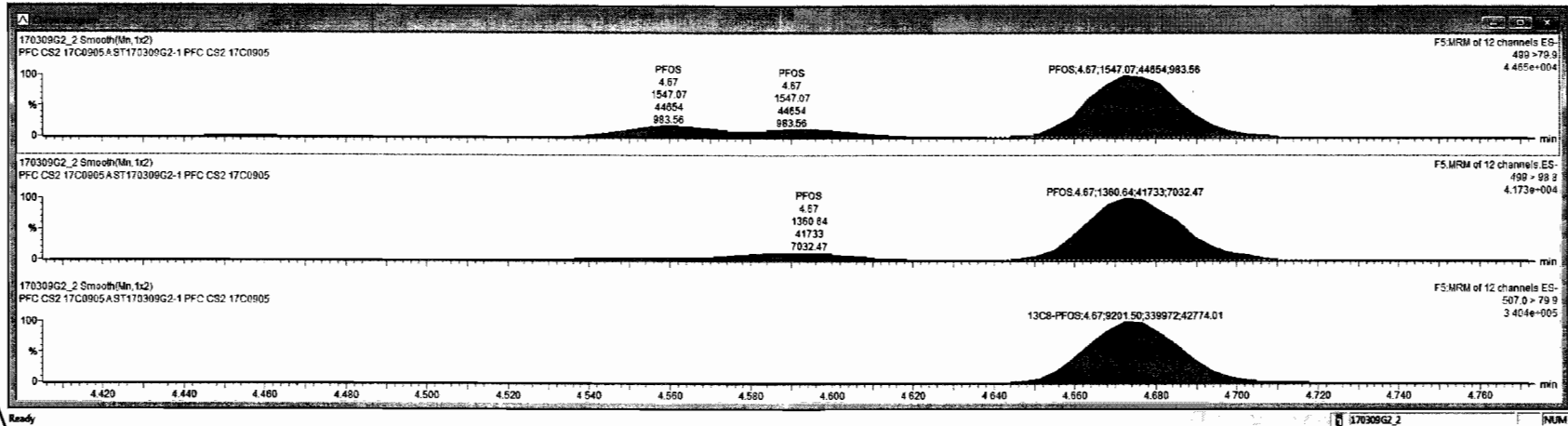
13C4-PFOS





170309G2_2 - ST 170309G2-1 PFC CS2 17C0905 - PFC CS2 17C0905.A

#	Name	Trace	Area	FWHM	WVAL	PRELRT	RT	Conc.	INCL	%Rec	DL
1	PFBS	299 > 79.7	6.39e3		1.000	2.99	2.99	4.32	NO	86.4	0.0000000
2	PFHpA	363 > 318.9	1.18e4		1.000	3.68	3.68	4.49	NO	89.7	0.0000000
3	PFHxS	388.9 > 79.6	4.02e3		1.000	4.00	4.00	3.51	YES	70.2	0.0000000
4	PFOA	413 > 368.7	1.18e4		1.000	4.28	4.28	5.02	YES	100.4	0.0000000
5	PFNA	463 > 418.8	8.62e3		1.000	4.62	4.61	3.94	YES	76.7	0.0000000
7	13C3-PFBS	302.0 > 88.8	7.72e3	0.410	1.000	2.99	2.99	13.5	NO	107.8	0.0045209
8	13C4-PFHpA	367.2 > 321.8	1.80e4	1.10	1.000	3.68	3.68	11.7	NO	93.7	0.0009691
9	18O2-PFHxS	403 > 182.6	7.78e3	0.434	1.000	4.00	4.00	12.8	NO	102.5	0.0021667
10	13C2-PFOA	414.9 > 369.7	3.52e4	4.61	1.000	4.28	4.28	10.0	NO	80.3	0.0022274
11	13C3-PFNA	468.2 > 422.9	1.01e4	0.867	1.000	4.61	4.62	12.9	NO	103.3	0.0028529
12	13C3-PFOS	507.0 > 79.9	9.20e3	0.958	1.000	4.68	4.67	13.3	NO	106.6	0.0007767
13	13C3-PFPeA	318-272.9	2.97e4	1.00	1.000	3.29	3.37	12.5	NO	100.0	0.0013269
14	13C3-PFHxS	401.9 > 79.9	1.75e4	1.00	1.000	3.94	4.00	12.5	NO	100.0	0.0091863
16	13C8-PFOA	421.3 > 376	9.52e3	1.00	1.000	4.22	4.28	12.5	NO	100.0	0.0109072
16	13C9-PFNA	472.2 > 426.9	1.13e4	1.00	1.000	4.56	4.61	12.5	NO	100.0	0.0006896
17	13C4-PFOS	505.0 > 79.9	9.01e3	1.00	1.000	4.67	4.68	12.5	NO	100.0	0.0073211
18	Total PFBS	299 > 79.7	6.39e3		1.000	3.11		4.32	NO		
18	Total PFHxS	388.9 > 79.6	4.02e3		1.000	4.00		4.35	NO		
20	Total PFOA	413 > 368.7	1.18e4		1.000	4.39		5.02	NO		
24	Total PFOS	498 > 79.9	1.89e3		1.000	4.67		5.05	NO		0.1049103



Dataset: U:\G1.PRO\Results\2017\170309G2\170309G2-17.qld

Last Altered: Friday, March 10, 2017 08:50:53 Pacific Standard Time

Printed: Friday, March 10, 2017 08:52:35 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Name: 170309G2_17, Date: 09-Mar-2017, Time: 18:56:38, ID: ST170309G2-2 PFC CS2 17C0905, Description: PFC CS2 17C0905 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	7.33e3	9.09e3		1.000	3.00	4.20	84.1
2	2 PFHpA	363 > 318.9	1.57e4	2.25e4		1.000	3.89	4.78	95.7
3	3 PFHxS	398.9 > 79.6	6.26e3	9.46e3		1.000	4.00	4.50	90.0
4	4 PFOA	413 > 368.7	1.42e4	4.69e4		1.000	4.28	4.55	91.1
5	5 PFNA	463 > 418.8	1.20e4	1.30e4		1.000	4.62	4.19	83.8
6	6 PFOS	499 > 79.9	2.13e3	1.22e4		1.000	4.68	4.12	82.5
7	7 13C3-PFBS	302.0 > 98.8	9.09e3	2.18e4	0.410	1.000	3.00	12.7	101.5
8	8 13C4-PFHpA	367.2 > 321.8	2.25e4	2.18e4	1.098	1.000	3.89	11.7	94.0
9	9 18O2-PFHxS	403 > 102.6	9.46e3	2.18e4	0.434	1.000	4.00	12.5	99.8
10	10 13C2-PFOA	414.9 > 369.7	4.69e4	1.24e4	4.608	1.000	4.28	10.3	82.0
11	11 13C5-PFNA	468.2 > 422.9	1.30e4	1.37e4	0.867	1.000	4.62	13.6	109.1
12	12 13C8-PFOS	507.0 > 79.9	1.22e4	1.29e4	0.958	1.000	4.68	12.4	99.3
13	13 13C5-PFHxA	318 > 272.9	3.55e4	3.55e4	1.000	1.000	3.37	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	2.18e4	2.18e4	1.000	1.000	4.00	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	1.24e4	1.24e4	1.000	1.000	4.28	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.37e4	1.37e4	1.000	1.000	4.62	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	1.29e4	1.29e4	1.000	1.000	4.68	12.5	100.0

75-125
↓
60-150
↓
50-150
60-150

ES 3/10/17

Dataset: Untitled

Last Altered: Friday, March 10, 2017 08:58:05 Pacific Standard Time

Printed: Friday, March 10, 2017 08:58:22 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Compound name: PFBS

Name	ID	Acq.Date	Acq.Time
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170309G2_2	ST170309G2-1 PFC CS2 17C0905	09-Mar-17	15:48:23
170309G2_3	IPA	09-Mar-17	16:01:07
170309G2_4	B7C0034-BS1 OPR 0.125	09-Mar-17	16:13:33
170309G2_5	IPA	09-Mar-17	16:26:02
170309G2_6	B7C0034-BLK1 Method Blank 0.125	09-Mar-17	16:38:38
170309G2_7	1700296-01 WI-CV-GW08M-0317 0.125	09-Mar-17	16:51:08
170309G2_8	1700296-02 WI-CV-EB12-030317 0.125	09-Mar-17	17:03:41
170309G2_9	1700296-03 WI-CV-GW07S-0317 0.125	09-Mar-17	17:16:14
170309G2_10	1700296-04 WI-CV-EB13-030417 0.125	09-Mar-17	17:28:47
170309G2_11	1700296-05 WI-CV-GW14M-0317 0.125	09-Mar-17	17:41:21
170309G2_12	1700296-06 WI-CV-GW13S-0317 0.125	09-Mar-17	17:53:53
170309G2_13	1700296-07 WI-CV-GW07M-0317 0.125	09-Mar-17	18:06:27
170309G2_14	1700296-08 WI-CV-EB14-030417 0.125	09-Mar-17	18:18:56
170309G2_15	1700298-01 Kitchen Sink 0.125	09-Mar-17	18:31:30
170309G2_16	IPA	09-Mar-17	18:44:03
170309G2_17	ST170309G2-2 PFC CS2 17C0905	09-Mar-17	18:56:38
170309G2_18	IPA	09-Mar-17	19:09:10

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Last Altered: Friday, March 10, 2017 08:33:19 Pacific Standard Time

Printed: Friday, March 10, 2017 08:34:00 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

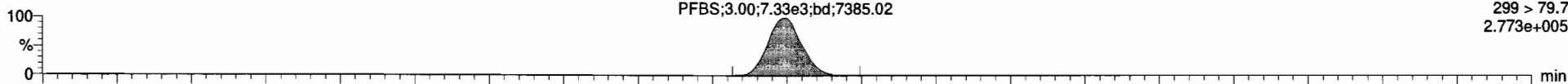
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PFBS

170309G2_17

PFBS;3.00;7.33e3;bd;7385.02

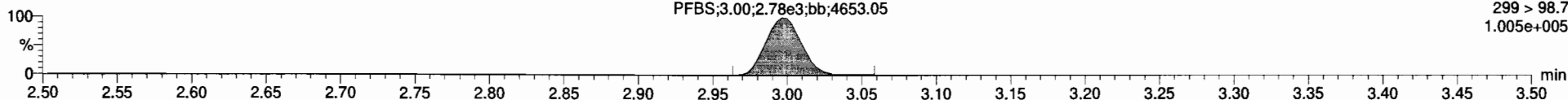
F2:MRM of 3 channels,ES-
299 > 79.7
2.773e+005



170309G2_17

PFBS;3.00;2.78e3;bb;4653.05

F2:MRM of 3 channels,ES-
299 > 98.7
1.005e+005

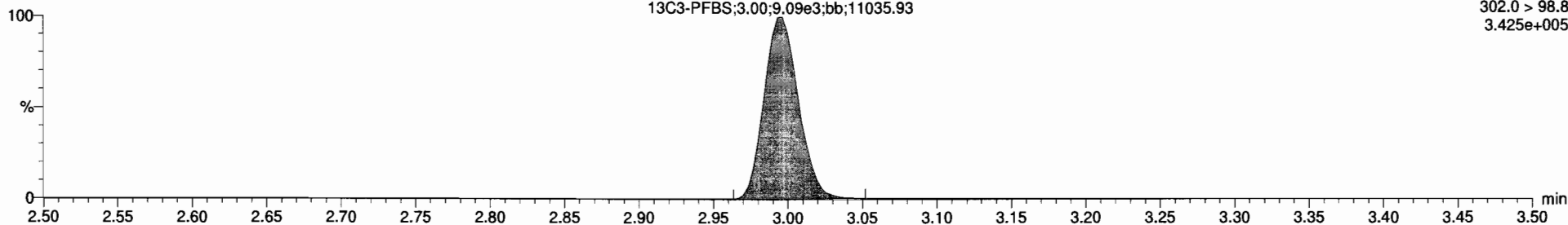


13C3-PFBS

170309G2_17

13C3-PFBS;3.00;9.09e3;bb;11035.93

F2:MRM of 3 channels,ES-
302.0 > 98.8
3.425e+005

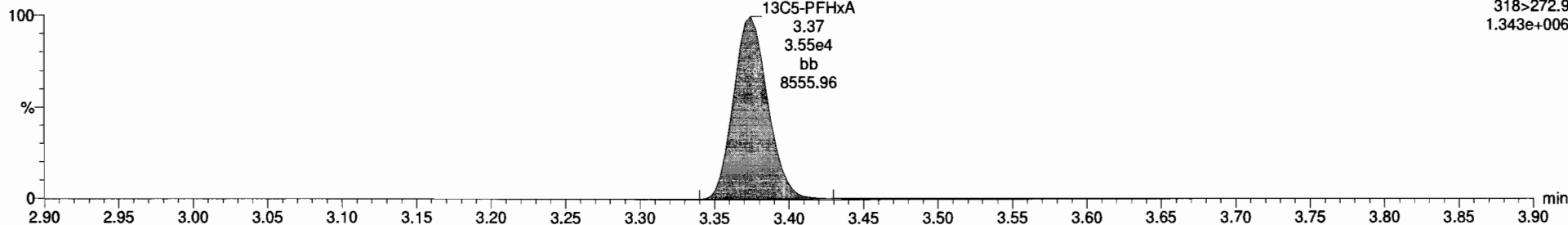


13C5-PFHxA

170309G2_17

13C5-PFHxA
3.37
3.55e4
bb
8555.96

F3:MRM of 1 channel,ES-
318>272.9
1.343e+006



Dataset: Untitled

Last Altered: Friday, March 10, 2017 08:33:19 Pacific Standard Time

Printed: Friday, March 10, 2017 08:34:00 Pacific Standard Time

ID: ST170309G2-2 PFC CS2 17C0905, Description: PFC CS2 17C0905 A, Name: 170309G2_17, Date: 09-Mar-2017, Time: 18:56:38, Instrument: , Lab: , User:

PFHpA

170309G2_17

PFHpA;3.89;1.57e4;bb;4571.46

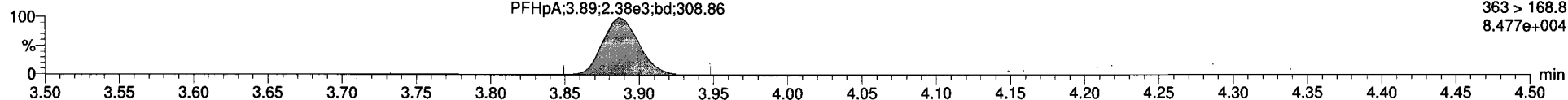
F4:MRM of 7 channels,ES-
363 > 318.9
5.826e+005



170309G2_17

PFHpA;3.89;2.38e3;bd;308.86

F4:MRM of 7 channels,ES-
363 > 168.8
8.477e+004

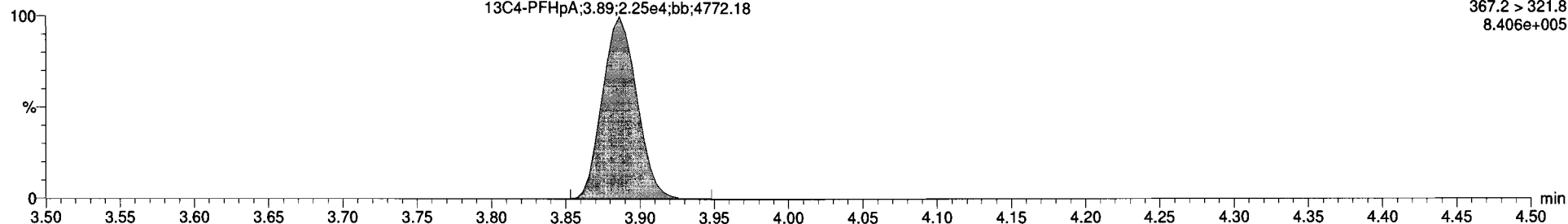


13C4-PFHpA

170309G2_17

13C4-PFHpA;3.89;2.25e4;bb;4772.18

F4:MRM of 7 channels,ES-
367.2 > 321.8
8.406e+005

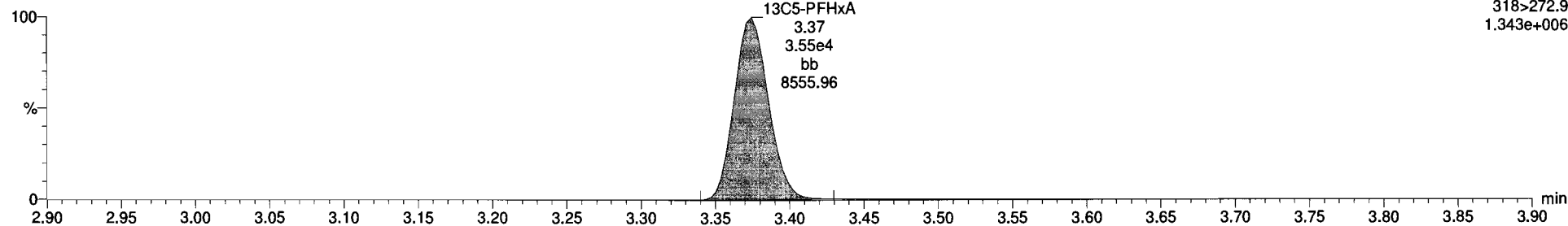


13C5-PFHxA

170309G2_17

13C5-PFHxA
3.37
3.55e4
bb
8555.96

F3:MRM of 1 channel,ES-
318>272.9
1.343e+006

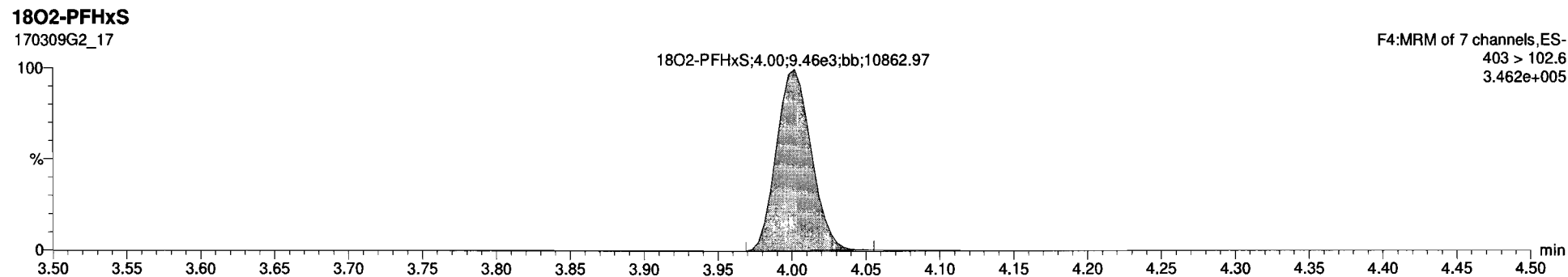
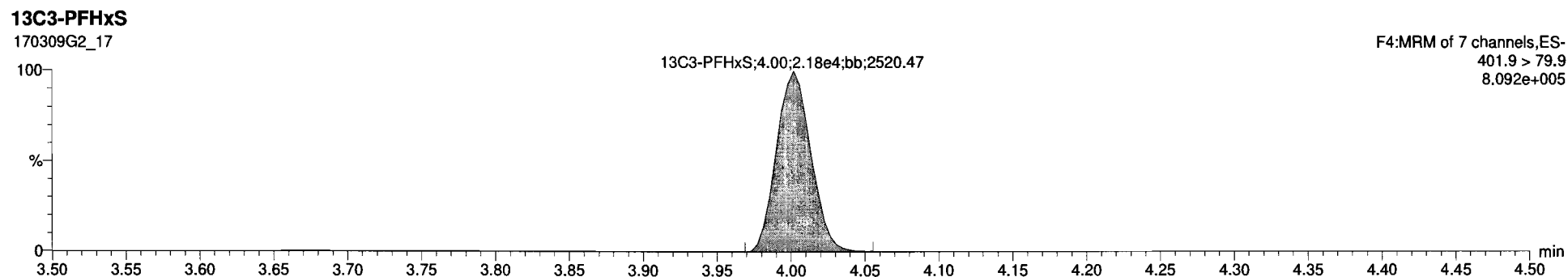
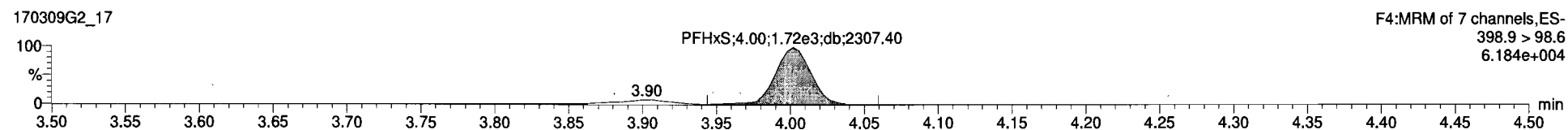
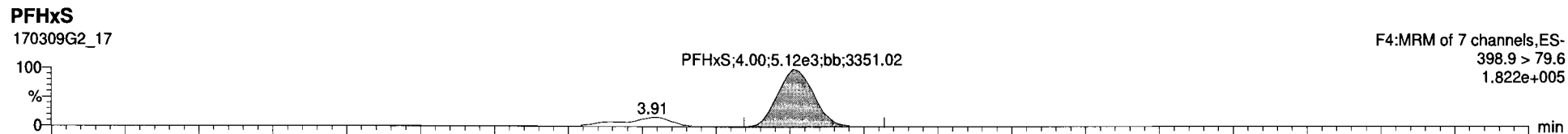


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Printed: Friday, March 10, 2017 08:34:00 Pacific Standard Time

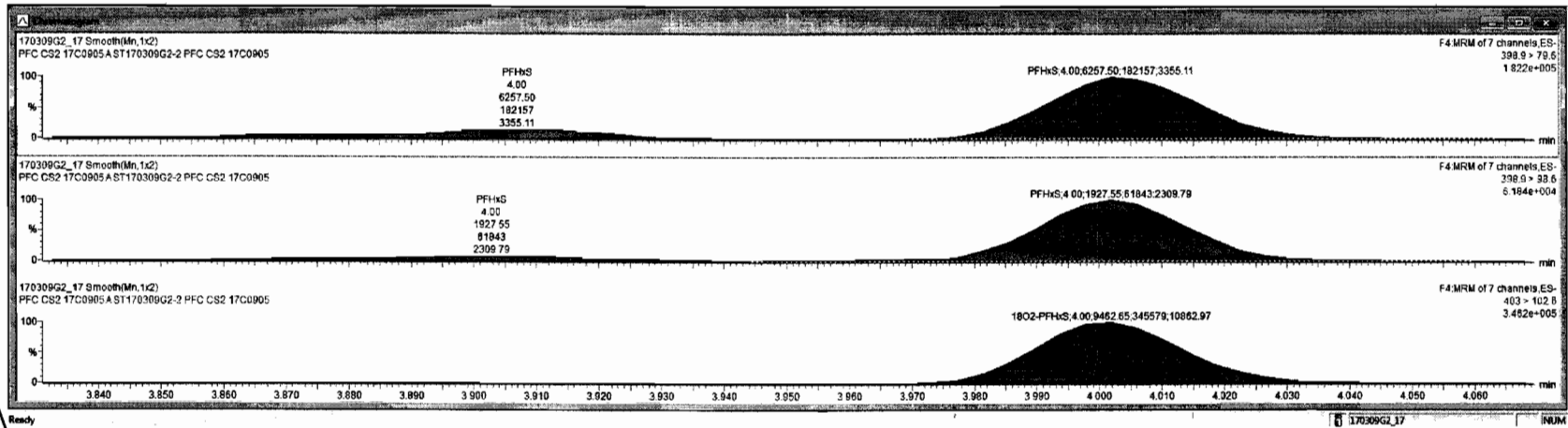
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170309G2_17 - ST170309G2-2 PFC CS2 17C0905 - PFC CS2 17C0905 A

Line	Name	Conc.	DL	%Rec	EMPC	Abs. Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq Date	Acq Time	1 st Ch Noise	ID	Sample Text	Factor	SWI	Cal File	MEM
1	PFBS	4.2037938	0.0000	84.1		7.32e3	3.00	1	7	0.380		YES	1.001	09-Mar-17	18:56:38	21.677	ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
2	PFHpA	4.7829216	0.0000	95.7		1.573e4	3.89	2	8				1.000	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
3	PFHxS	4.2037938	0.0000	84.1		7.32e3	3.00	3	9				1.000	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	YES
4	PFDA	4.5532065	0.0000	91.1		1.425e4	4.28	4	10				1.000	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	YES
5	PFNA	4.1964492	0.0000	83.8		1.202e4	4.62	5	11				1.000	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	YES
6	PFOS	3.0716778	0.106	61.4		1.573e3	4.68	6	12				1.001	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	YES
7	13CB-PFBS	12.899527	0.00292	191.3		9.987e3	0.410	3.00	7	14			0.888	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
8	13CB-PFHpA	11.744990	0.00820	94.0		2.252e4	1.968	3.89	8	14			0.971	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
9	18O2-PFHxS	12.475788	0.00283	96.8		9.483e3	0.434	4.00	9	14			1.000	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
10	13CB-PFDA	10.253756	0.00291	82.0		4.691e4	4.608	4.28	10	15			1.000	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
11	13CS-PFNA	13.833337	0.00648	109.1		1.298e4	0.867	4.62	11	16			1.000	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
12	13CB-PFOS	12.417425	0.00693	86.3		1.225e4	0.958	4.68	12	17			1.000	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
13	13CS-PFHxA	12.590000	0.00365	100.0		3.552e4	1.000	3.37	13	13			0.900	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
14	13CB-PFHxS	12.590000	0.0124	100.0		2.183e4	1.000	4.00	14	14			0.900	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
15	13CB-PFDA	12.590000	0.00487	100.0		1.241e4	1.000	4.28	15	15			0.900	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
16	13CB-PFNA	12.590000	0.00588	100.0		1.374e4	1.000	4.62	16	16			0.900	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
17	13CB-PFOS	12.590000	0.00146	100.0		1.286e4	1.000	4.68	17	17			0.900	09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
18	Total PFBS	4.2037938							18					09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
19	Total PFHpA	5.1988894							19					09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
20	Total PFHxS	4.5532065							20					09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
21	Total PFDA	4.2453712	0.106						21					09-Mar-17	18:56:38		ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO



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Last Altered: Friday, March 10, 2017 08:33:19 Pacific Standard Time
Printed: Friday, March 10, 2017 08:34:00 Pacific Standard Time

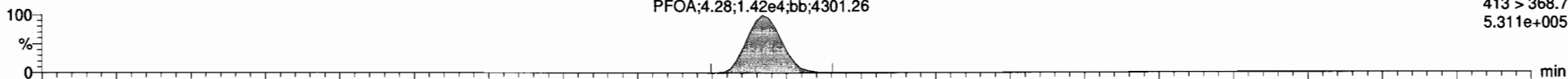
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PFOA

170309G2_17

PFOA;4.28;1.42e4;bb;4301.26

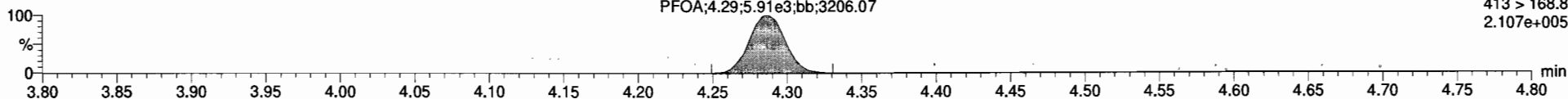
F5:MRM of 12 channels,ES-
413 > 368.7
5.311e+005



170309G2_17

PFOA;4.29;5.91e3;bb;3206.07

F5:MRM of 12 channels,ES-
413 > 168.8
2.107e+005

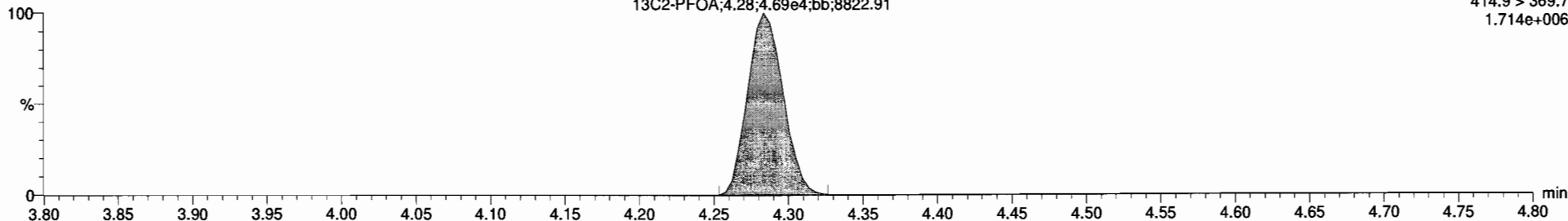


13C2-PFOA

170309G2_17

13C2-PFOA;4.28;4.69e4;bb;8822.91

F5:MRM of 12 channels,ES-
414.9 > 369.7
1.714e+006

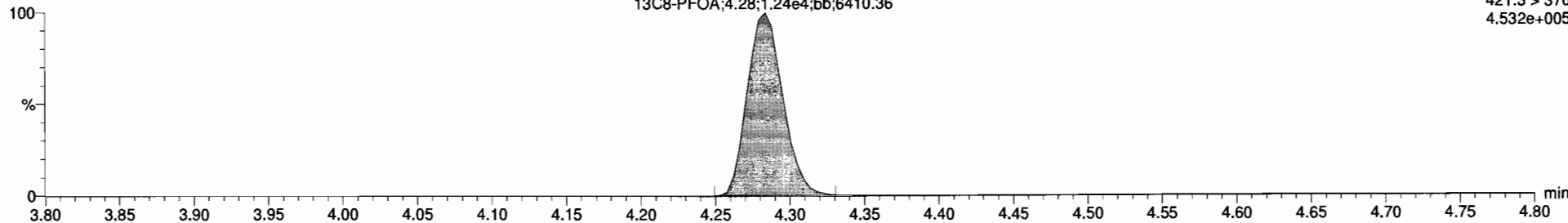


13C8-PFOA

170309G2_17

13C8-PFOA;4.28;1.24e4;bb;6410.36

F5:MRM of 12 channels,ES-
421.3 > 376
4.532e+005



Dataset: Untitled

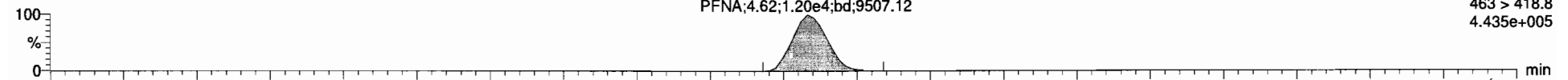
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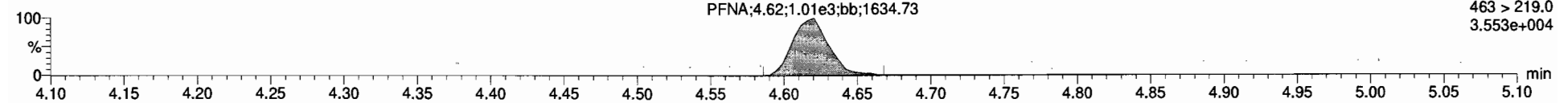
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170309G2_17

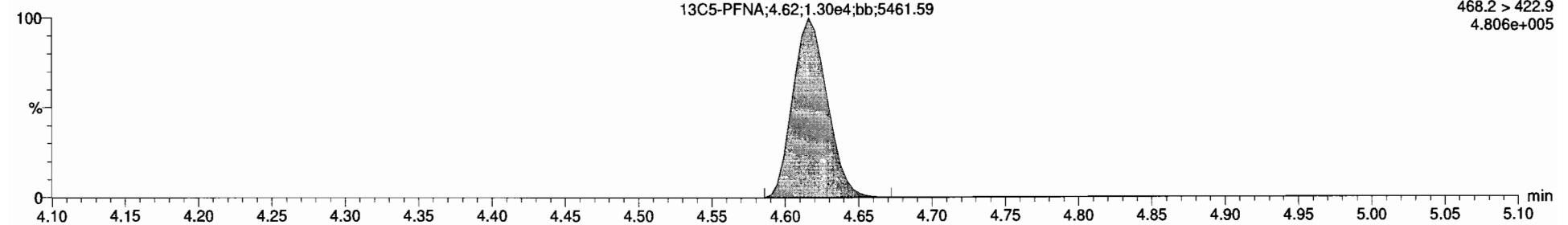


170309G2_17



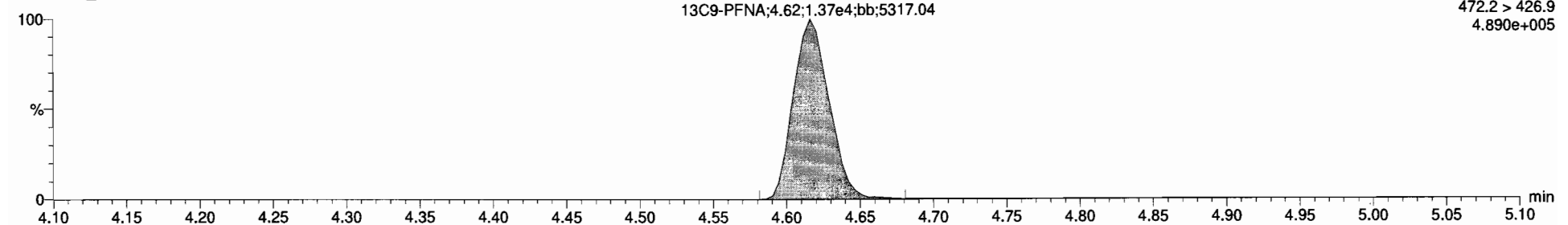
13C5-PFNA

170309G2_17



13C9-PFNA

170309G2_17



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Last Altered: Friday, March 10, 2017 08:33:19 Pacific Standard Time

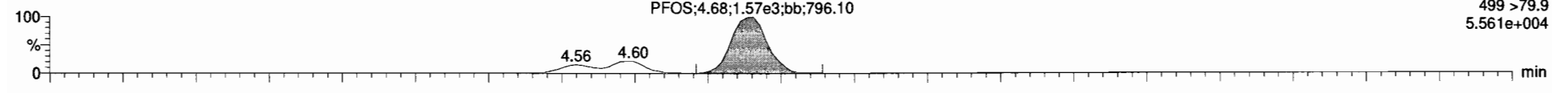
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PFOS

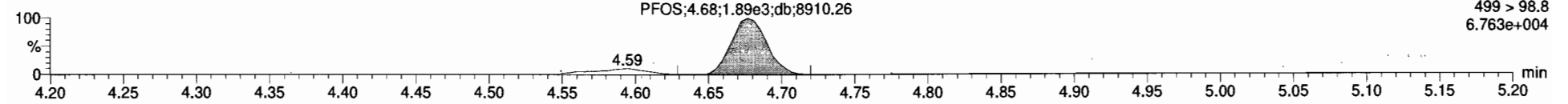
170309G2_17

F5:MRM of 12 channels,ES-
499 >79.9
5.561e+004



170309G2_17

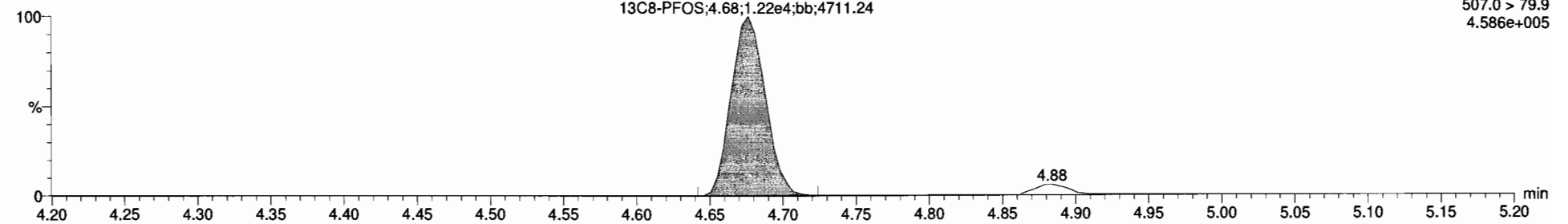
F5:MRM of 12 channels,ES-
499 > 98.8
6.763e+004



13C8-PFOS

170309G2_17

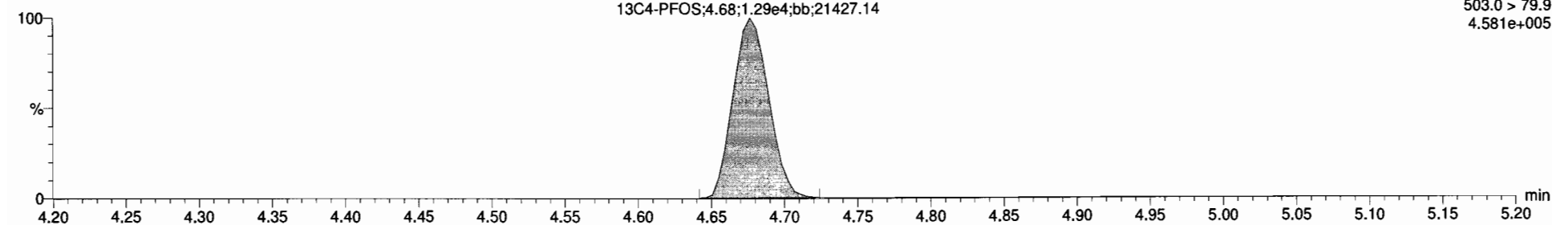
F5:MRM of 12 channels,ES-
507.0 > 79.9
4.586e+005



13C4-PFOS

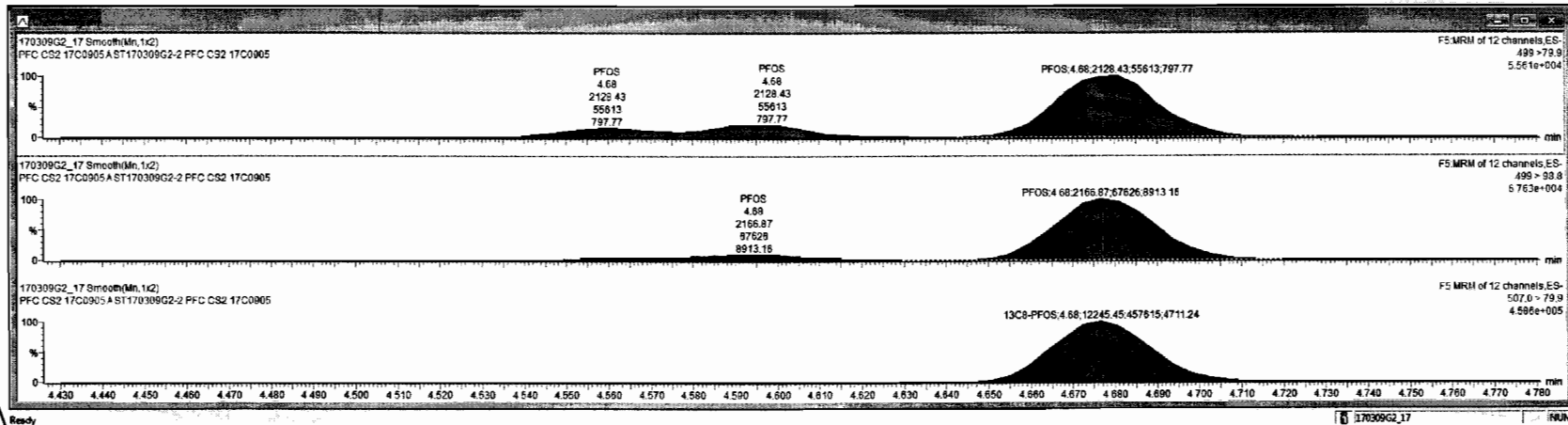
170309G2_17

F5:MRM of 12 channels,ES-
503.0 > 79.9
4.581e+005



170309G2_17 - ST170309G2-2 PFC CS2 17C0905 - PFC CS2 17C0905 A

Name	Contc	DL	%Rec	EMPC	Abs.Pasp	RPF	RT	#	SA	RA	VNE	RRT	Acq Date	Acq Time	Yr	CherNotes	D	Sample	Factor1	SWI	Cal File	MDL
1 PFBS	4.2037938	0.0000	84.1		7.326e3		3.00	1	7	0.380	YES	1.001	09-Mar-17	18:56:38		21577	ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
2 PFHxA	4.7829216	0.0000	95.7		1.573e4		3.89	2	8			1.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
3 PFHxS	4.5015733	0.0000	90.0		6.256e3		4.00	3	9			1.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	YES
4 PFOA	4.5532065	0.0000	91.1		1.425e4		4.28	4	10			1.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	YES
5 PFNA	4.1904492	0.0000	83.8		1.202e4		4.62	5	11			1.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	YES
6 PFOS	4.1704052	0.106	82.5		2.170e3		4.68	6	12			1.001	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	YES
7 13C3-PFBS	12.699527	0.00252	101.5		9.987e3	0.410	3.90	7	14			0.898	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
8 13C4-PFHxA	11.744890	0.00620	94.0		2.252e4	1.068	3.89	8	14			0.971	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
9 18O2-PFHxS	12.475788	0.00283	99.0		9.463e3	0.434	4.00	9	14			1.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
10 13C2-PFOA	10.253756	0.00291	82.0		4.891e4	4.628	4.20	10	15			1.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
11 13C5-PFNA	13.633337	0.00648	109.1		1.299e4	0.967	4.02	11	16			1.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
12 13C8-PFOS	12.417425	0.00683	98.3		1.225e4	0.958	4.68	12	17			1.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
13 13C5-PFHxA	12.500000	0.00365	100.0		3.552e4	1.000	3.37	13	13			0.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
14 13C3-PFHxS	12.500000	0.0124	100.0		2.183e4	1.000	4.00	14	14			0.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
15 13C8-PFOA	12.500000	0.00487	100.0		1.241e4	1.000	4.20	15	15			0.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
16 13C9-PFNA	12.500000	0.00508	100.0		1.374e4	1.000	4.62	16	16			0.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
17 13C4-PFOS	12.500000	0.00146	100.0		1.286e4	1.000	4.68	17	17			0.000	09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
18 Total PFBS	4.2037938							18					09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
19 Total PFHxS	5.1988804							19					09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
20 Total PFOA	4.5532065							20					09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO
21 Total PFOS	5.2981920	0.106						21					09-Mar-17	18:56:38			ST170309G	PFC CS2 17C09	1.0	1.00	C18_V	NO



INITIAL CALIBRATION

Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time
Printed: Monday, March 06, 2017 08:29:13 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:19:21

Compound name: PFBS

Correlation coefficient: $r = 0.999596$, $r^2 = 0.999192$

Calibration curve: $2.38097 * x + 0.0682571$

Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	3.05	3.44e2	6.21e3	0.263	5.1	2.77
2	2 170305G1_3	0.500	3.05	6.19e2	6.45e3	0.475	-5.0	2.40
3	3 170305G1_4	1.00	3.04	1.07e3	5.41e3	1.01	1.1	2.47
4	4 170305G1_5	2.00	3.03	2.78e3	7.24e3	1.99	-0.7	2.40
5	5 170305G1_6	5.00	3.03	5.91e3	6.73e3	4.58	-8.4	2.20
6	6 170305G1_7	10.0	3.03	1.12e4	5.49e3	10.7	7.2	2.56
7	7 170305G1_8	50.0	3.03	5.43e4	5.58e3	51.1	2.1	2.43
8	8 170305G1_9	100	3.03	9.61e4	5.11e3	98.6	-1.4	2.35

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Compound name: PFHpA

Correlation coefficient: $r = 0.999429$, $r^2 = 0.998857$

Calibration curve: $1.79957 * x + 0.123896$

Response type: Internal Std (Ref 8), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	3.93	7.46e2	1.70e4	0.235	-5.8	2.19
2	2 170305G1_3	0.500	3.92	1.43e3	1.69e4	0.518	3.7	2.11
3	3 170305G1_4	1.00	3.91	2.27e3	1.52e4	0.964	-3.6	1.86
4	4 170305G1_5	2.00	3.91	5.65e3	1.86e4	2.05	2.3	1.90
5	5 170305G1_6	5.00	3.91	1.36e4	1.95e4	4.78	-4.4	1.74
6	6 170305G1_7	10.0	3.91	1.98e4	1.29e4	10.6	6.4	1.93
7	7 170305G1_8	50.0	3.91	1.16e5	1.55e4	51.9	3.8	1.87
8	8 170305G1_9	100	3.91	1.99e5	1.42e4	97.6	-2.4	1.76

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Compound name: PFHxS

Correlation coefficient: $r = 0.999200$, $r^2 = 0.998401$

Calibration curve: $1.81334 * x + 0.103191$

Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	4.04	3.26e2	7.11e3	0.259	3.8	2.29
2	2 170305G1_3	0.500	4.03	5.47e2	6.83e3	0.496	-0.9	2.00
3	3 170305G1_4	1.00	4.03	8.97e2	5.85e3	1.00	0.1	1.92
4	4 170305G1_5	2.00	4.03	2.23e3	7.43e3	2.01	0.5	1.87
5	5 170305G1_6	5.00	4.03	5.17e3	7.64e3	4.60	-8.0	1.69
6	6 170305G1_7	10.0	4.03	6.69e3	4.52e3	10.1	1.5	1.85
7	7 170305G1_8	50.0	4.03	4.78e4	6.24e3	52.8	5.6	1.92
8	8 170305G1_9	100	4.03	8.33e4	5.89e3	97.4	-2.6	1.77

Compound name: PFOA

Correlation coefficient: $r = 0.998804$, $r^2 = 0.997609$

Calibration curve: $0.794457 * x + 0.179058$

Response type: Internal Std (Ref 10), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	4.32	1.04e3	3.51e4	0.241	-3.7	1.48
2	2 170305G1_3	0.500	4.31	1.52e3	3.53e4	0.452	-9.6	1.08
3	3 170305G1_4	1.00	4.30	2.09e3	2.91e4	0.908	-9.2	0.901
4	4 170305G1_5	2.00	4.30	5.39e3	3.70e4	2.06	3.1	0.909
5	5 170305G1_6	5.00	4.30	1.24e4	3.46e4	5.43	8.5	0.898
6	6 170305G1_7	10.0	4.30	1.56e4	2.18e4	11.0	9.8	0.890
7	7 170305G1_8	50.0	4.30	1.10e5	3.30e4	52.3	4.6	0.835
8	8 170305G1_9	100	4.30	1.98e5	3.22e4	96.4	-3.6	0.767

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Compound name: PFNA

Correlation coefficient: $r = 0.999011$, $r^2 = 0.998022$

Calibration curve: $2.73664 * x + 0.0966541$

Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	4.65	5.06e2	8.36e3	0.241	-3.5	3.03
2	2 170305G1_3	0.500	4.64	8.81e2	7.67e3	0.489	-2.1	2.87
3	3 170305G1_4	1.00	4.63	1.26e3	5.74e3	0.968	-3.2	2.75
4	4 170305G1_5	2.00	4.63	3.17e3	6.97e3	2.04	2.0	2.84
5	5 170305G1_6	5.00	4.63	7.77e3	7.48e3	4.71	-5.8	2.60
6	6 170305G1_7	10.0	4.63	7.05e3	2.88e3	11.1	11.4	3.06
7	7 170305G1_8	50.0	4.63	7.41e4	6.50e3	52.1	4.1	2.85
8	8 170305G1_9	100	4.63	1.56e5	7.35e3	97.1	-2.9	2.66

Compound name: PFOS

Coefficient of Determination: $R^2 = 0.997963$

Calibration curve: $-0.000185224 * x^2 + 0.54028 * x + -0.0525057$

Response type: Internal Std (Ref 12), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	4.62	3.72e1	6.28e3	0.234	-6.3	0.296
2	2 170305G1_3	0.500	4.71	7.39e1	6.57e3	0.358	-28.5	0.281
3	3 170305G1_4	1.00	4.69	1.82e2	4.73e3	0.989	-1.1	0.482
4	4 170305G1_5	2.00	4.69	5.28e2	5.18e3	2.46	23.0	0.638
5	5 170305G1_6	5.00	4.69	1.23e3	5.64e3	5.14	2.8	0.544
6	6 170305G1_7	10.0	4.69	8.60e2	1.88e3	10.7	7.1	0.571
7	7 170305G1_8	50.0	4.69	1.04e4	5.14e3	47.8	-4.4	0.507
8	8 170305G1_9	100	4.69	2.64e4	6.26e3	101	1.1	0.527

Ⓐ Point excluded.
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Compound name: 13C3-PFBS

Response Factor: 0.40994

RRF SD: 0.0411734, Relative SD: 10.0438

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	3.05	6.21e3	1.48e4	12.8	2.4	0.420
2	2 170305G1_3	12.5	3.05	6.45e3	1.61e4	12.2	-2.5	0.400
3	3 170305G1_4	12.5	3.03	5.41e3	1.44e4	11.5	-8.1	0.377
4	4 170305G1_5	12.5	3.03	7.24e3	1.74e4	12.7	1.2	0.415
5	5 170305G1_6	12.5	3.03	6.73e3	1.72e4	11.9	-4.7	0.391
6	6 170305G1_7	12.5	3.03	5.49e3	1.09e4	15.4	23.0	0.504
7	7 170305G1_8	12.5	3.03	5.58e3	1.48e4	11.5	-7.9	0.378
8	8 170305G1_9	12.5	3.03	5.11e3	1.29e4	12.1	-3.5	0.396

Compound name: 13C4-PFHpA

Response Factor: 1.09794

RRF SD: 0.0510391, Relative SD: 4.64862

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	3.92	1.70e4	1.48e4	13.1	5.0	1.15
2	2 170305G1_3	12.5	3.92	1.69e4	1.61e4	11.9	-4.5	1.05
3	3 170305G1_4	12.5	3.91	1.52e4	1.44e4	12.1	-3.4	1.06
4	4 170305G1_5	12.5	3.91	1.86e4	1.74e4	12.1	-3.1	1.06
5	5 170305G1_6	12.5	3.91	1.95e4	1.72e4	12.9	3.0	1.13
6	6 170305G1_7	12.5	3.91	1.29e4	1.09e4	13.4	7.6	1.18
7	7 170305G1_8	12.5	3.91	1.55e4	1.48e4	11.9	-4.4	1.05
8	8 170305G1_9	12.5	3.91	1.42e4	1.29e4	12.5	-0.2	1.10

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Compound name: 18O2-PFHxS

Response Factor: 0.434252

RRF SD: 0.0243573, Relative SD: 5.60903

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.04	7.11e3	1.48e4	13.8	10.7	0.481
2	2 170305G1_3	12.5	4.03	6.83e3	1.61e4	12.2	-2.6	0.423
3	3 170305G1_4	12.5	4.03	5.85e3	1.44e4	11.7	-6.2	0.407
4	4 170305G1_5	12.5	4.02	7.43e3	1.74e4	12.3	-1.8	0.426
5	5 170305G1_6	12.5	4.02	7.64e3	1.72e4	12.8	2.2	0.444
6	6 170305G1_7	12.5	4.02	4.52e3	1.09e4	12.0	-4.4	0.415
7	7 170305G1_8	12.5	4.02	6.24e3	1.48e4	12.1	-2.8	0.422
8	8 170305G1_9	12.5	4.02	5.89e3	1.29e4	13.1	5.0	0.456

Compound name: 13C2-PFOA

Response Factor: 4.60838

RRF SD: 0.269705, Relative SD: 5.85249

Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.32	3.51e4	7.77e3	12.2	-2.0	4.51
2	2 170305G1_3	12.5	4.31	3.53e4	8.14e3	11.8	-5.8	4.34
3	3 170305G1_4	12.5	4.31	2.91e4	6.38e3	12.4	-1.0	4.56
4	4 170305G1_5	12.5	4.30	3.70e4	8.23e3	12.2	-2.4	4.50
5	5 170305G1_6	12.5	4.30	3.46e4	7.88e3	11.9	-4.6	4.40
6	6 170305G1_7	12.5	4.30	2.18e4	4.25e3	13.9	11.6	5.14
7	7 170305G1_8	12.5	4.30	3.30e4	7.29e3	12.3	-1.8	4.53
8	8 170305G1_9	12.5	4.30	3.22e4	6.59e3	13.3	6.0	4.89

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Compound name: 13C5-PFNA

Response Factor: 0.867114

RRF SD: 0.0501317, Relative SD: 5.78144

Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.64	8.36e3	8.87e3	13.6	8.7	0.943
2	2 170305G1_3	12.5	4.64	7.67e3	8.20e3	13.5	7.9	0.936
3	3 170305G1_4	12.5	4.63	5.74e3	7.15e3	11.6	-7.4	0.803
4	4 170305G1_5	12.5	4.63	6.97e3	8.16e3	12.3	-1.4	0.855
5	5 170305G1_6	12.5	4.63	7.48e3	8.62e3	12.5	0.0	0.867
6	6 170305G1_7	12.5	4.63	2.88e3	3.54e3	11.7	-6.0	0.815
7	7 170305G1_8	12.5	4.63	6.50e3	7.60e3	12.3	-1.3	0.856
8	8 170305G1_9	12.5	4.63	7.35e3	8.52e3	12.4	-0.5	0.863

Compound name: 13C8-PFOS

Response Factor: 0.95832

RRF SD: 0.0597595, Relative SD: 6.23587

Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.70	6.28e3	6.73e3	12.2	-2.5	0.934
2	2 170305G1_3	12.5	4.70	6.57e3	7.11e3	12.1	-3.6	0.924
3	3 170305G1_4	12.5	4.69	4.73e3	5.19e3	11.9	-4.7	0.913
4	4 170305G1_5	12.5	4.69	5.18e3	5.45e3	12.4	-0.9	0.950
5	5 170305G1_6	12.5	4.69	5.64e3	6.31e3	11.7	-6.8	0.894
6	6 170305G1_7	12.5	4.69	1.88e3	1.74e3	14.1	12.8	1.08
7	7 170305G1_8	12.5	4.69	5.14e3	5.13e3	13.1	4.4	1.00
8	8 170305G1_9	12.5	4.69	6.26e3	6.45e3	12.7	1.3	0.971

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Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	3.43	2.72e4	2.72e4	12.5	0.0	1.00
2	2 170305G1_3	12.5	3.43	2.95e4	2.95e4	12.5	0.0	1.00
3	3 170305G1_4	12.5	3.41	2.60e4	2.60e4	12.5	0.0	1.00
4	4 170305G1_5	12.5	3.41	3.17e4	3.17e4	12.5	0.0	1.00
5	5 170305G1_6	12.5	3.41	3.10e4	3.10e4	12.5	0.0	1.00
6	6 170305G1_7	12.5	3.41	2.37e4	2.37e4	12.5	0.0	1.00
7	7 170305G1_8	12.5	3.41	2.69e4	2.69e4	12.5	0.0	1.00
8	8 170305G1_9	12.5	3.41	2.39e4	2.39e4	12.5	0.0	1.00

Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.04	1.48e4	1.48e4	12.5	0.0	1.00
2	2 170305G1_3	12.5	4.03	1.61e4	1.61e4	12.5	0.0	1.00
3	3 170305G1_4	12.5	4.03	1.44e4	1.44e4	12.5	0.0	1.00
4	4 170305G1_5	12.5	4.02	1.74e4	1.74e4	12.5	0.0	1.00
5	5 170305G1_6	12.5	4.02	1.72e4	1.72e4	12.5	0.0	1.00
6	6 170305G1_7	12.5	4.03	1.09e4	1.09e4	12.5	0.0	1.00
7	7 170305G1_8	12.5	4.02	1.48e4	1.48e4	12.5	0.0	1.00
8	8 170305G1_9	12.5	4.02	1.29e4	1.29e4	12.5	0.0	1.00

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Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.32	7.77e3	7.77e3	12.5	0.0	1.00
2	2 170305G1_3	12.5	4.31	8.14e3	8.14e3	12.5	0.0	1.00
3	3 170305G1_4	12.5	4.30	6.38e3	6.38e3	12.5	0.0	1.00
4	4 170305G1_5	12.5	4.30	8.23e3	8.23e3	12.5	0.0	1.00
5	5 170305G1_6	12.5	4.30	7.88e3	7.88e3	12.5	0.0	1.00
6	6 170305G1_7	12.5	4.30	4.25e3	4.25e3	12.5	0.0	1.00
7	7 170305G1_8	12.5	4.30	7.29e3	7.29e3	12.5	0.0	1.00
8	8 170305G1_9	12.5	4.30	6.59e3	6.59e3	12.5	0.0	1.00

Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.64	8.87e3	8.87e3	12.5	0.0	1.00
2	2 170305G1_3	12.5	4.64	8.20e3	8.20e3	12.5	0.0	1.00
3	3 170305G1_4	12.5	4.63	7.15e3	7.15e3	12.5	0.0	1.00
4	4 170305G1_5	12.5	4.63	8.16e3	8.16e3	12.5	0.0	1.00
5	5 170305G1_6	12.5	4.63	8.62e3	8.62e3	12.5	0.0	1.00
6	6 170305G1_7	12.5	4.63	3.54e3	3.54e3	12.5	0.0	1.00
7	7 170305G1_8	12.5	4.63	7.60e3	7.60e3	12.5	0.0	1.00
8	8 170305G1_9	12.5	4.63	8.52e3	8.52e3	12.5	0.0	1.00

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Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.70	6.73e3	6.73e3	12.5	0.0	1.00
2	2 170305G1_3	12.5	4.70	7.11e3	7.11e3	12.5	0.0	1.00
3	3 170305G1_4	12.5	4.69	5.19e3	5.19e3	12.5	0.0	1.00
4	4 170305G1_5	12.5	4.69	5.45e3	5.45e3	12.5	0.0	1.00
5	5 170305G1_6	12.5	4.69	6.31e3	6.31e3	12.5	0.0	1.00
6	6 170305G1_7	12.5	4.69	1.74e3	1.74e3	12.5	0.0	1.00
7	7 170305G1_8	12.5	4.69	5.13e3	5.13e3	12.5	0.0	1.00
8	8 170305G1_9	12.5	4.69	6.45e3	6.45e3	12.5	0.0	1.00

Dataset: Untitled

Last Altered: Monday, March 06, 2017 09:13:54 Pacific Standard Time

Printed: Monday, March 06, 2017 09:14:12 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Compound name: PFBS

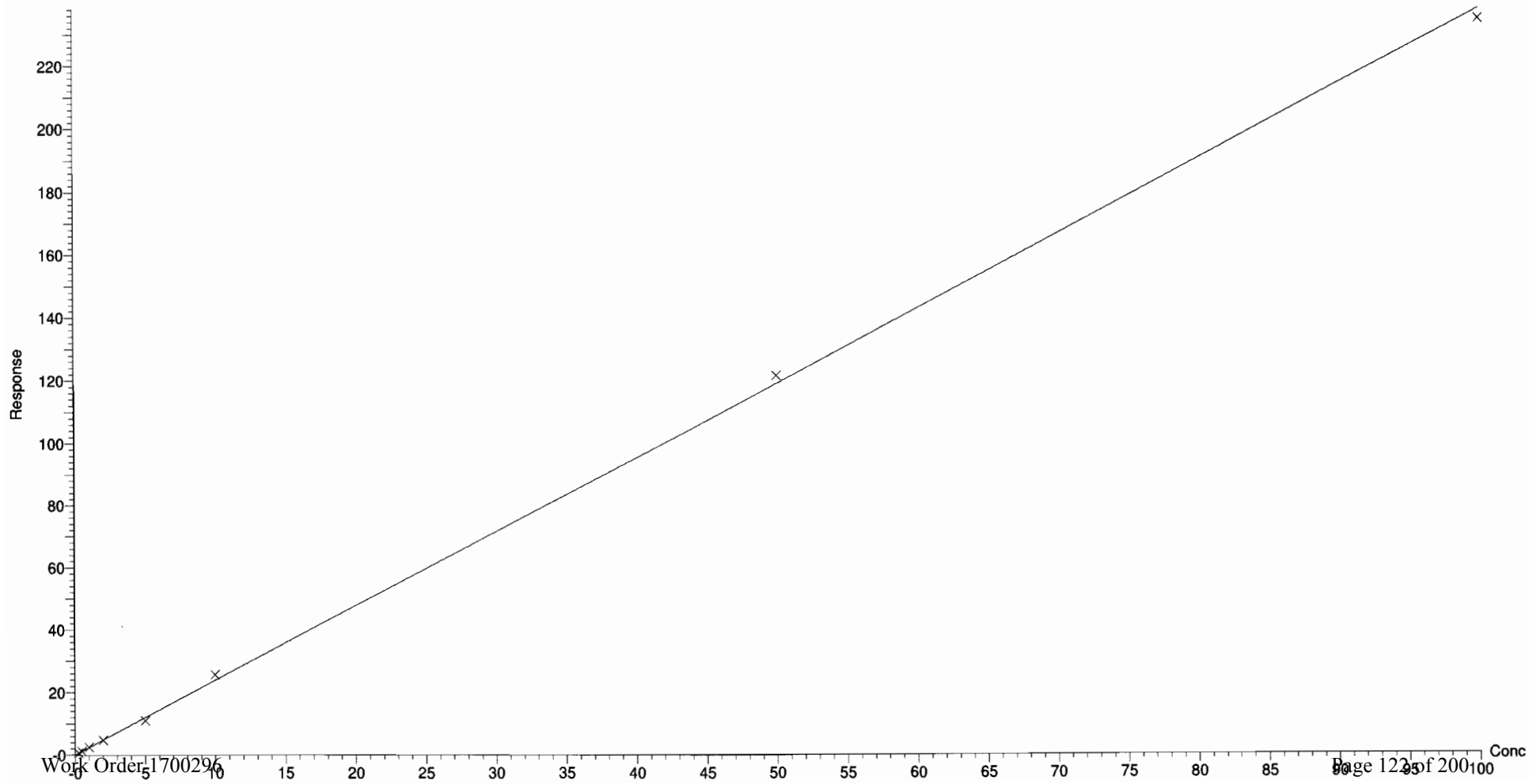
	Name	ID	Acq.Date	Acq.Time
1	170305G1_1	IPA	05-Mar-17	12:34:35
2	170305G1_2	ST170305G1-1 PFC CS-2 17C0501	05-Mar-17	12:46:48
3	170305G1_3	ST170305G1-2 PFC CS-1 17C0502	05-Mar-17	12:59:15
4	170305G1_4	ST170305G1-3 PFC CS0 17C0503	05-Mar-17	13:11:49
5	170305G1_5	ST170305G1-4 PFC CS1 17C0504	05-Mar-17	13:24:21
6	170305G1_6	ST170305G1-5 PFC CS2 17C0505	05-Mar-17	13:36:55
7	170305G1_7	ST170305G1-6 PFC CS3 17C0506	05-Mar-17	13:49:29
8	170305G1_8	ST170305G1-7 PFC CS4 17C0507	05-Mar-17	14:02:00
9	170305G1_9	ST170305G1-8 PFC CS5 17C0508	05-Mar-17	14:14:34
10	170305G1_10	IPA	05-Mar-17	14:27:08
11	170305G1_11	SS170305G1-1 PFC SSS 17C0509	05-Mar-17	14:39:40
12	170305G1_12	IPA	05-Mar-17	14:52:09
13	170305G1_13	B7C0012-BS1 OPR 0.125	05-Mar-17	15:04:45
14	170305G1_14	B7C0010-BS1 OPR 0.125	05-Mar-17	15:17:15
15	170305G1_15	IPA	05-Mar-17	15:29:48
16	170305G1_16	B7C0012-BLK1 Method Blank 0.125	05-Mar-17	15:42:23
17	170305G1_17	B7C0010-BLK1 Method Blank 0.125	05-Mar-17	15:54:54
18	170305G1_18	1700268-02RE1 WI-CV-GW05M-0217 0.125	05-Mar-17	16:07:28
19	170305G1_19	1700268-04RE1 WI-CV-GW11M-0217 0.125	05-Mar-17	16:20:00
20	170305G1_20	1700280-01 WI-CV-GW03M-0217 0.125	05-Mar-17	16:32:34
21	170305G1_21	1700280-02 WI-CV-GW03D-0217 0.125	05-Mar-17	16:45:07
22	170305G1_22	1700280-03 WI-CV-EB07-022717 0.125	05-Mar-17	16:57:36
23	170305G1_23	1700280-04 WI-CV-GW04M-0217 0.125	05-Mar-17	17:10:09
24	170305G1_24	1700280-05 WI-CV-GW01M-0217 0.125	05-Mar-17	17:22:42
25	170305G1_25	1700280-06 WI-CV-EB08-022817 0.125	05-Mar-17	17:35:16
26	170305G1_26	1700280-07 WI-CV-GW01D-0217 0.125	05-Mar-17	17:47:49
27	170305G1_27	1700277-01 MILK-022717 0.005	05-Mar-17	18:00:22
28	170305G1_28	IPA	05-Mar-17	18:12:56
29	170305G1_29	ST170305G1-9 PFC CS3 17C0506	05-Mar-17	18:25:28
30	170305G1_30	IPA	05-Mar-17	18:38:01

Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time
Printed: Monday, March 06, 2017 08:27:41 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:19:21

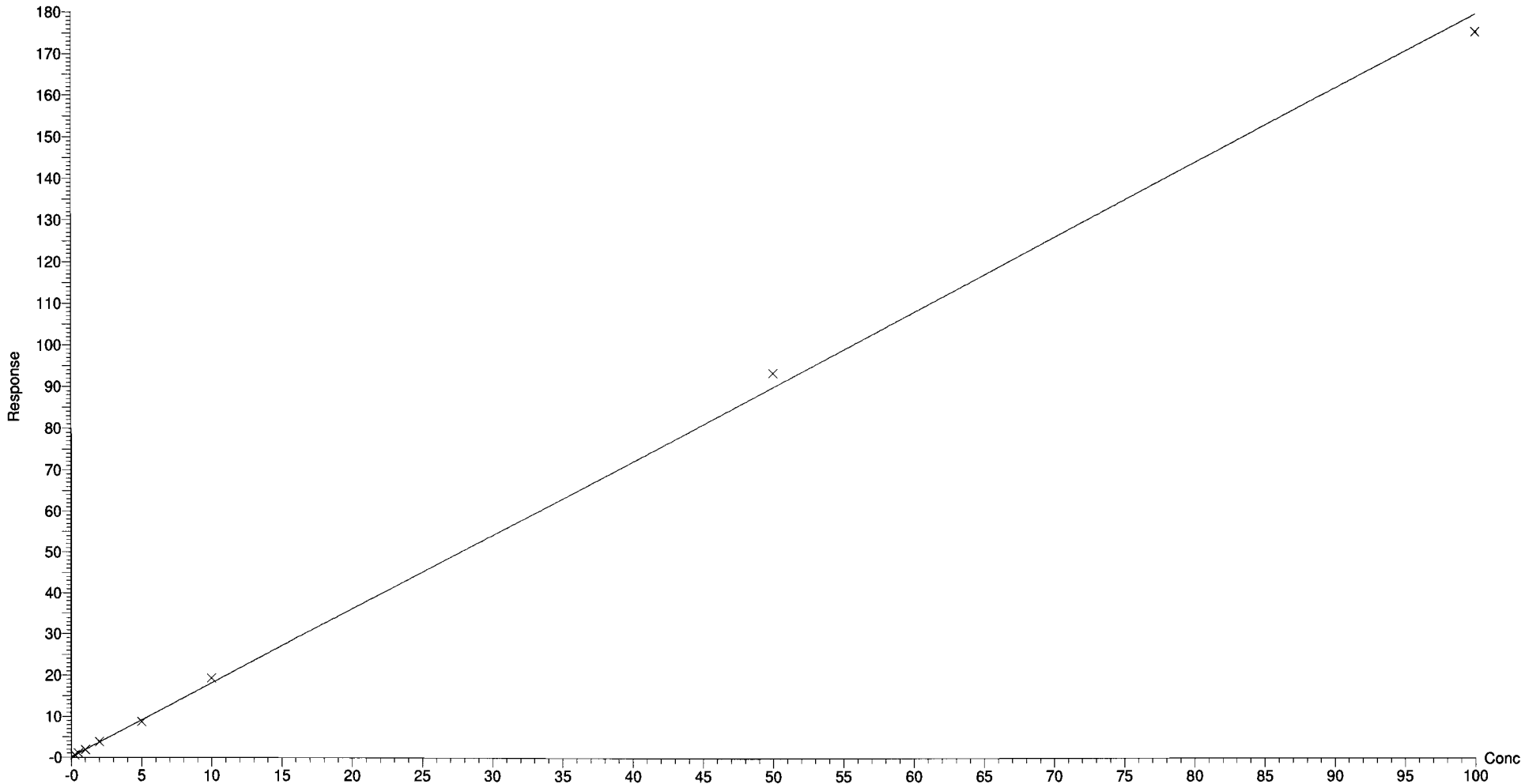
Compound name: PFBS
Correlation coefficient: $r = 0.999596$, $r^2 = 0.999192$
Calibration curve: $2.38097 * x + 0.0682571$
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time
Printed: Monday, March 06, 2017 08:27:41 Pacific Standard Time

Compound name: PFHpA
Correlation coefficient: $r = 0.999429$, $r^2 = 0.998857$
Calibration curve: $1.79957 * x + 0.123896$
Response type: Internal Std (Ref 8), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time

Printed: Monday, March 06, 2017 08:27:41 Pacific Standard Time

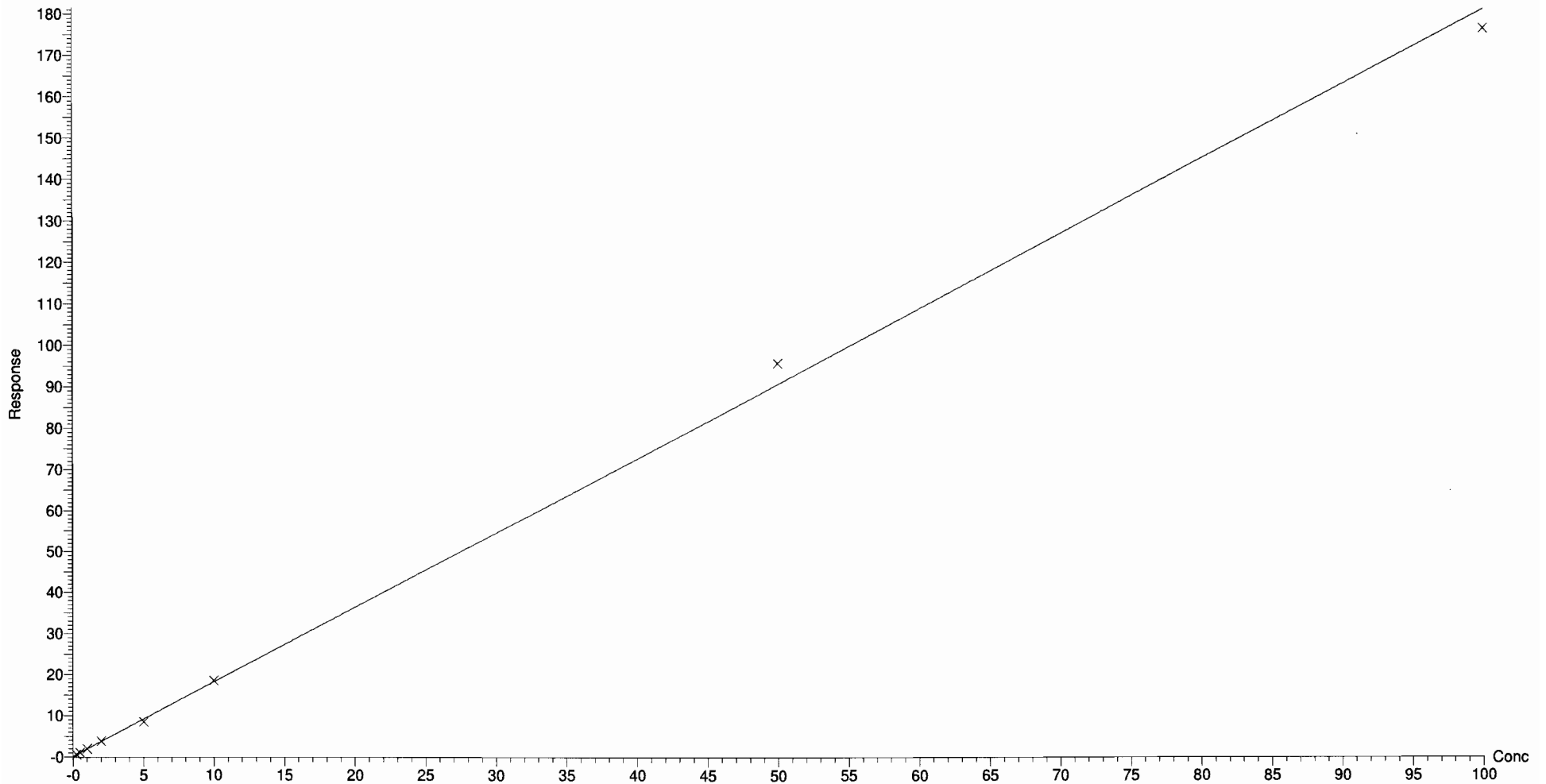
Compound name: PFHxS

Correlation coefficient: $r = 0.999200$, $r^2 = 0.998401$

Calibration curve: $1.81334 * x + 0.103191$

Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time

Printed: Monday, March 06, 2017 08:27:41 Pacific Standard Time

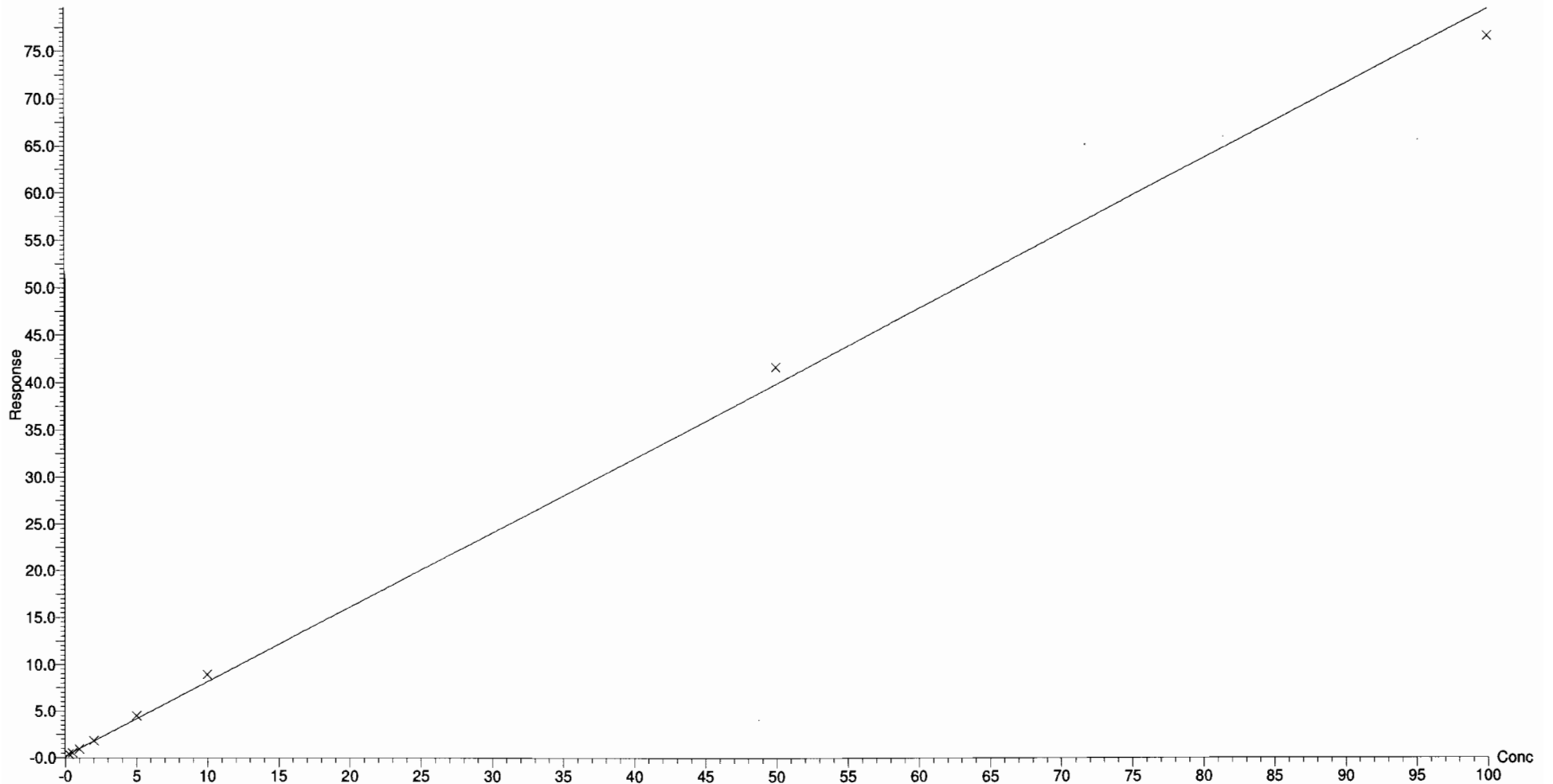
Compound name: PFOA

Correlation coefficient: $r = 0.998804$, $r^2 = 0.997609$

Calibration curve: $0.794457 * x + 0.179058$

Response type: Internal Std (Ref 10), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time

Printed: Monday, March 06, 2017 08:27:41 Pacific Standard Time

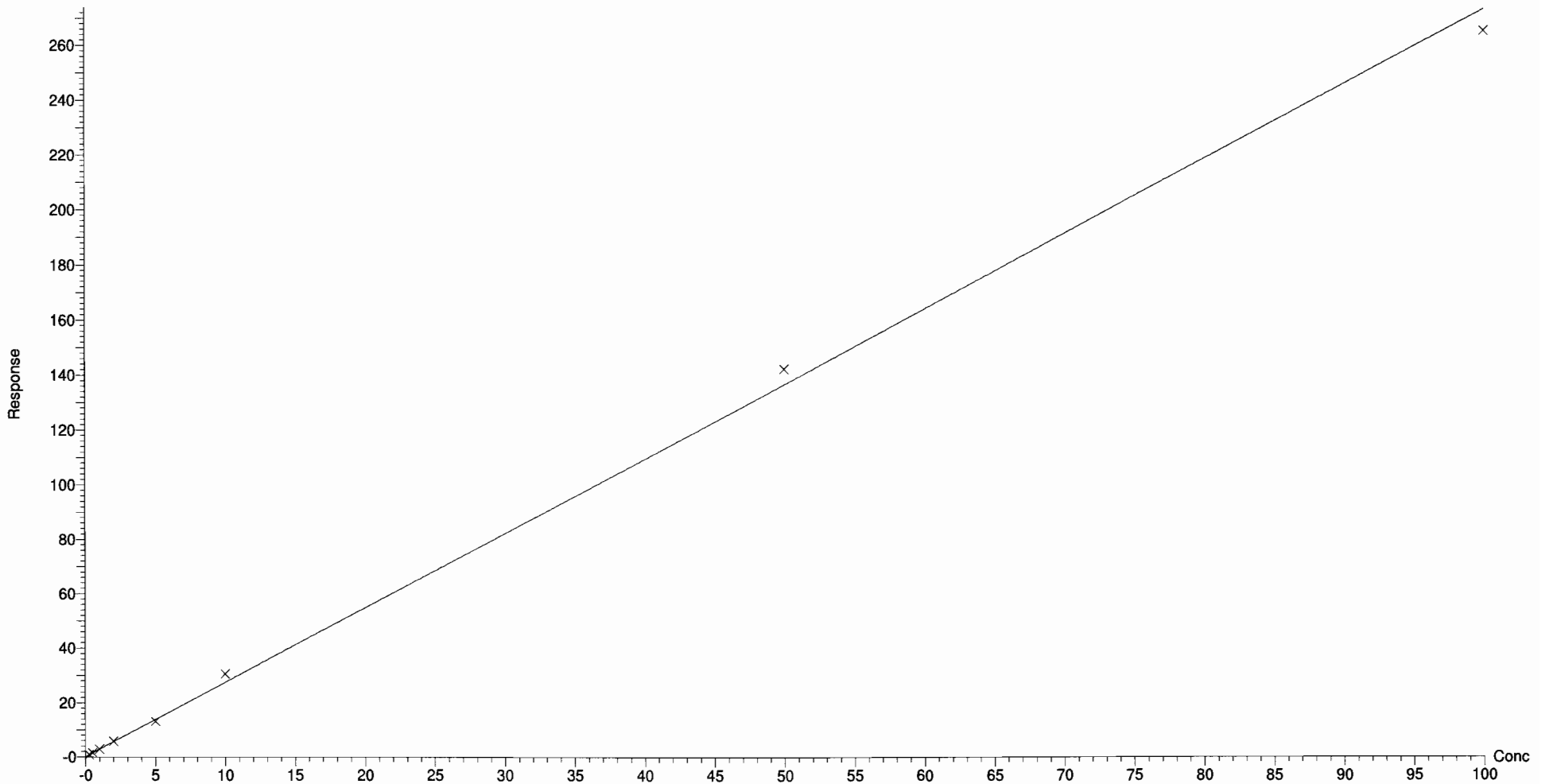
Compound name: PFNA

Correlation coefficient: $r = 0.999011$, $r^2 = 0.998022$

Calibration curve: $2.73664 * x + 0.0966541$

Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)

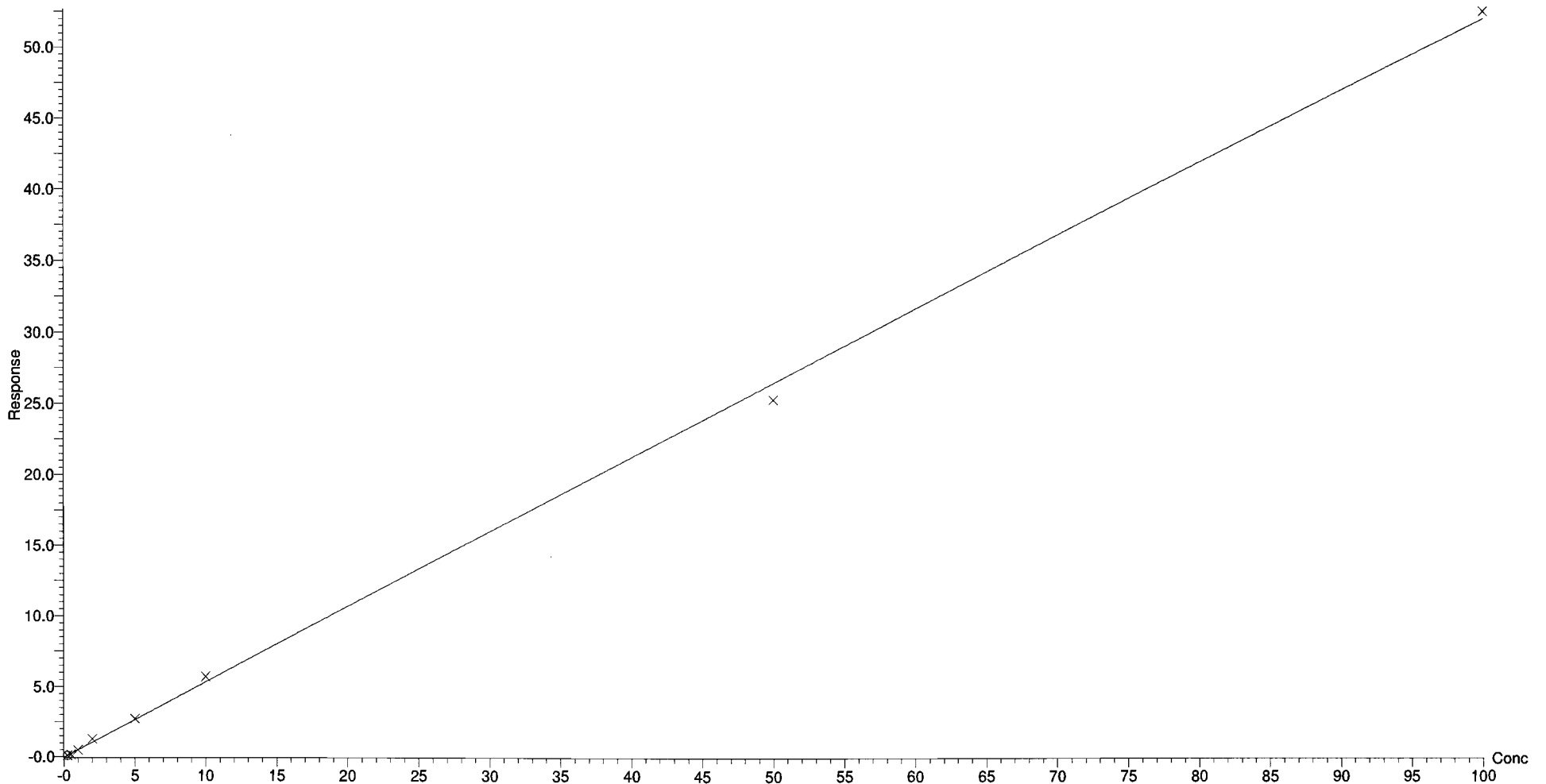
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time
Printed: Monday, March 06, 2017 08:27:41 Pacific Standard Time

Compound name: PFOS
Coefficient of Determination: $R^2 = 0.997963$
Calibration curve: $-0.000185224 * x^2 + 0.54028 * x + -0.0525057$
Response type: Internal Std (Ref 12), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: Untitled

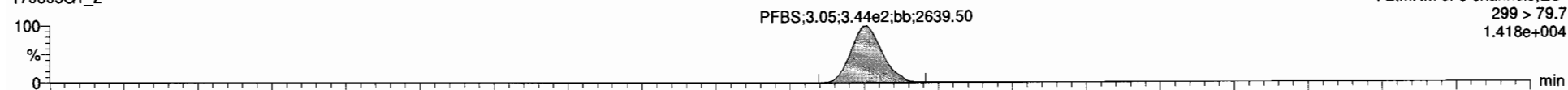
Last Altered: Monday, March 06, 2017 08:36:20 Pacific Standard Time
Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: 06 Mar 2017 08:36:20

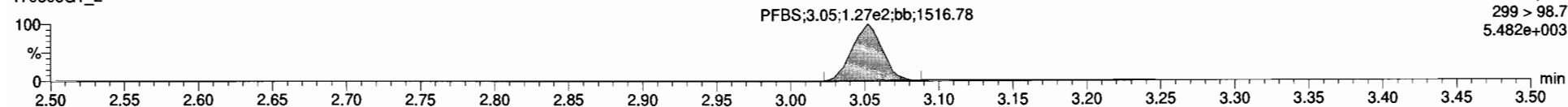
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PFBS

170305G1_2

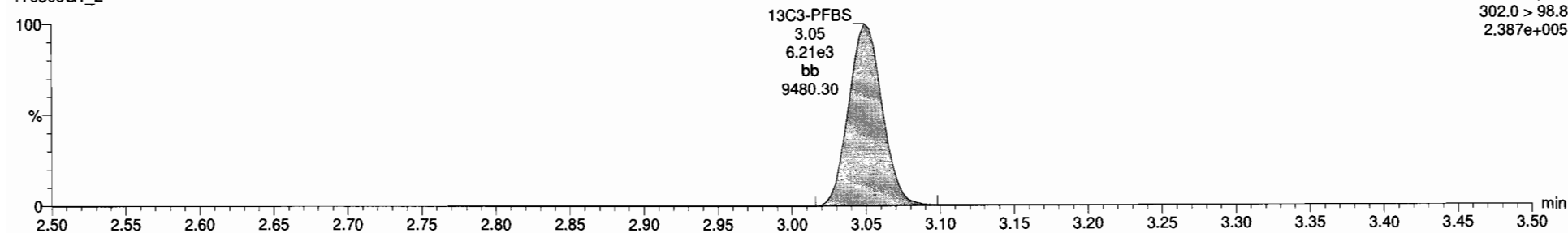


170305G1_2



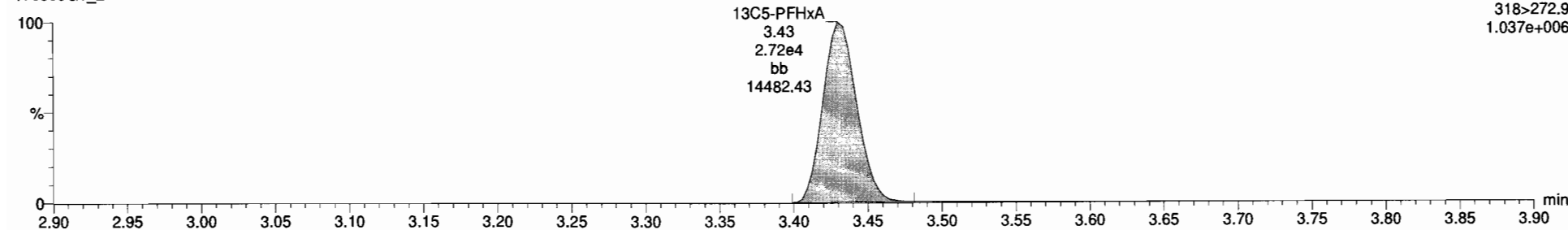
13C3-PFBS

170305G1_2



13C5-PFHxA

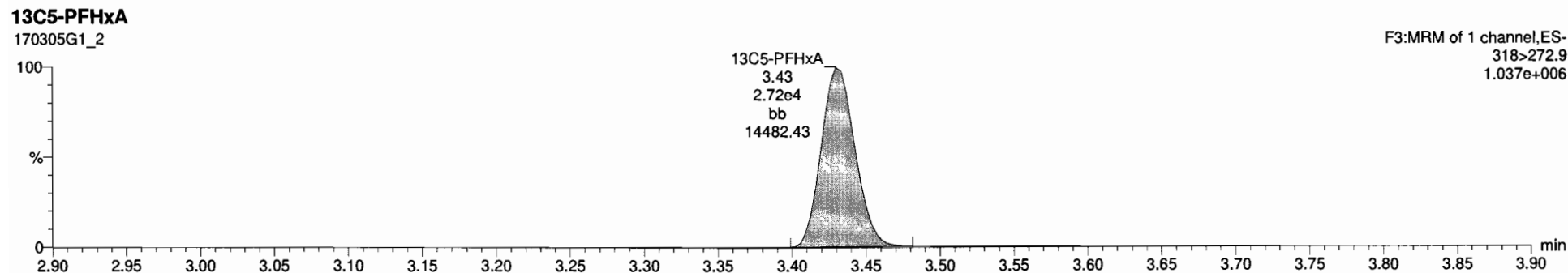
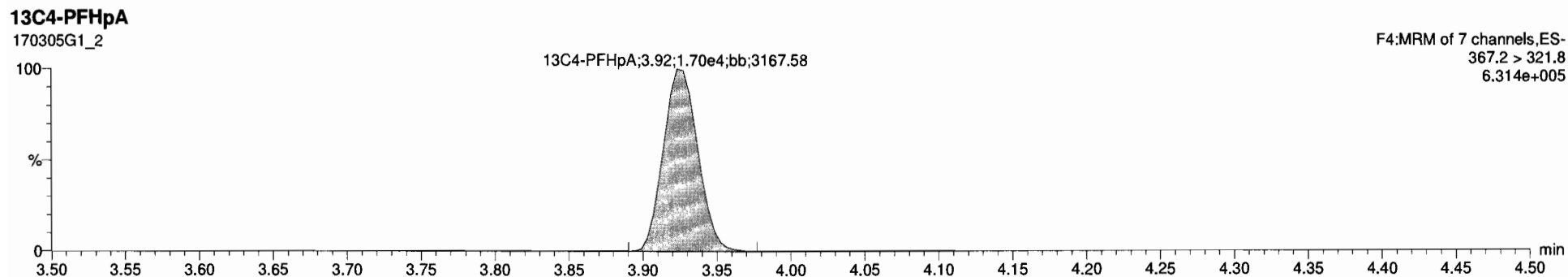
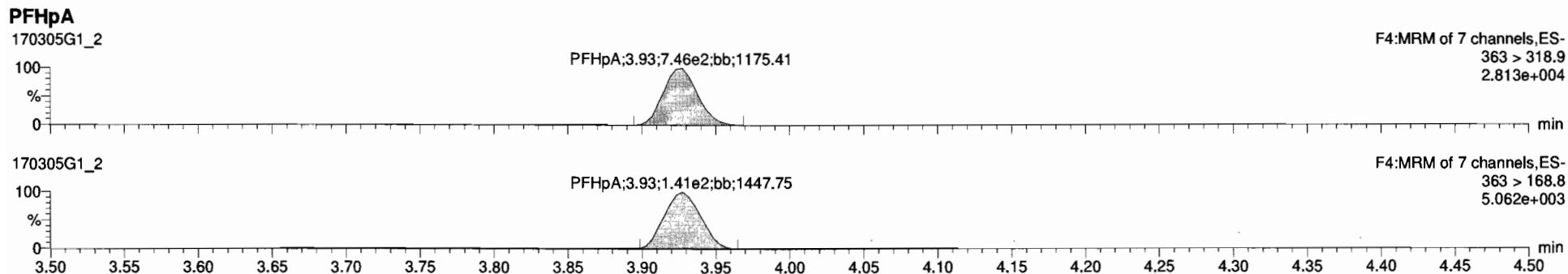
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Last Altered: Monday, March 06, 2017 08:36:20 Pacific Standard Time
Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

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Dataset: Untitled

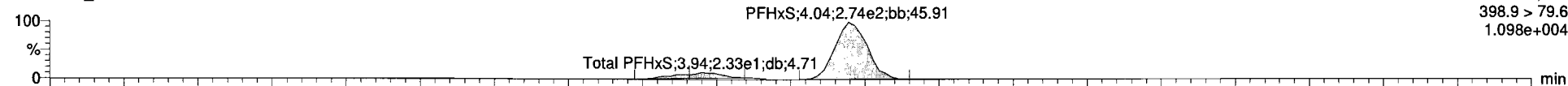
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

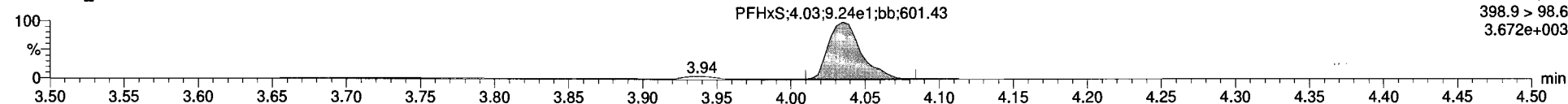
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Total PFHxS

170305G1_2

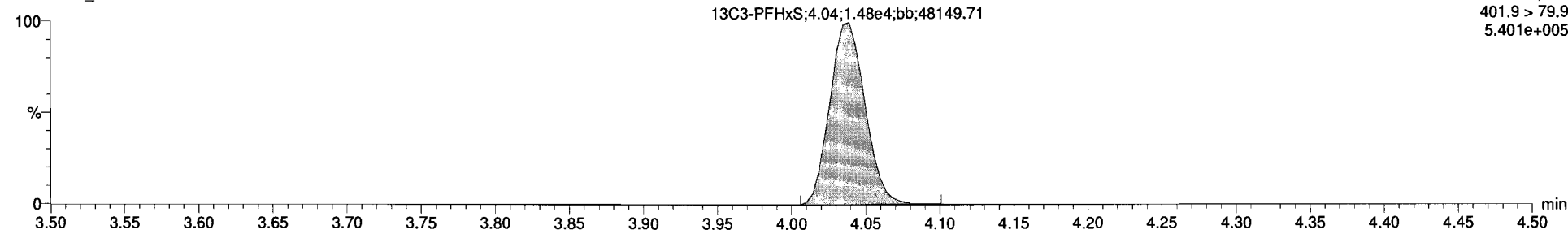


170305G1_2



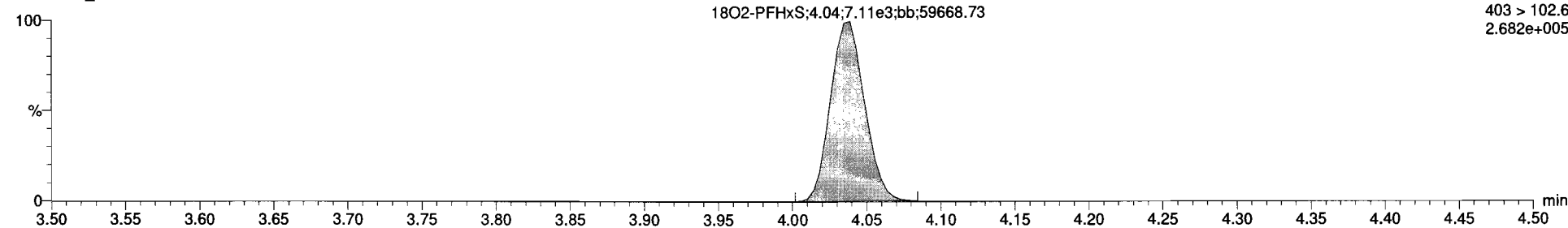
13C3-PFHxS

170305G1_2

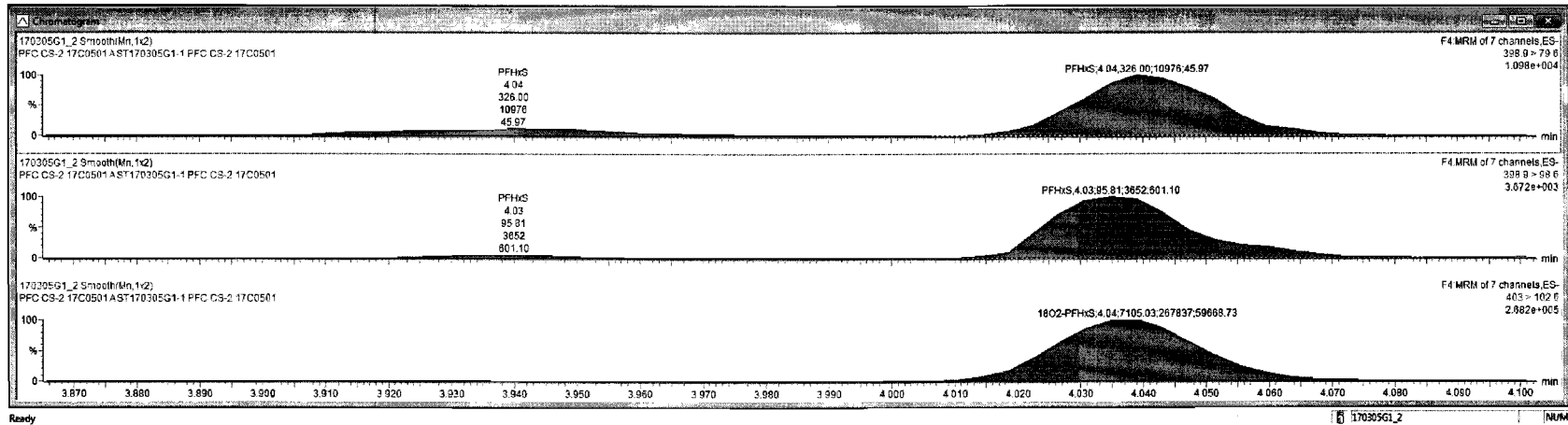


18O2-PFHxS

170305G1_2



#	Name	Trace	Area	RRP	WtWt	Pred RT	RT	Conc.	SUOL	%Rec	DL
1	PFBS	299 > 79.7	3.44e2		1.000	3.05	3.05	0.283	NO	105.1	
2	PFHpA	363 > 318.8	7.46e2		1.000	3.92	3.93	0.235	NO	94.2	
3	PFHxS	398.9 > 79.8	3.29e2		1.000	4.04	4.04	0.259	NO	103.8	
4	PFOA	413 > 368.7	1.04e3		1.000	4.32	4.32	0.241	NO	96.3	
5	PFNA	463 > 418.8	3.06e2		1.000	4.64	4.65	0.241	NO	96.5	
6	PFOS	499 > 79.9	3.72e1		1.000	4.71	4.62	0.234	NO	93.7	0.1069576
7	13C3-PFBS	302.0 > 98.8	6.21e3	0.410	1.000	3.04	3.05	12.8	NO	102.4	0.0035537
8	13C4-PFHpA	367.2 > 321.8	1.70e4	1.10	1.000	3.82	3.92	13.1	NO	105.0	0.0105143
9	18O2-PFHxS	403 > 102.6	7.11e3	0.434	1.000	4.04	4.04	13.8	NO	110.7	0.0005992
10	13C2-PFOA	414.8 > 368.7	3.51e4	4.61	1.000	4.32	4.32	12.2	NO	98.0	0.0040166
11	13C5-PFNA	468.2 > 422.9	8.36e3	0.867	1.000	4.64	4.64	13.6	NO	103.7	0.0016950
12	13C8-PFOS	507.0 > 79.9	6.28e3	0.958	1.000	4.70	4.70	12.2	NO	97.5	0.0431338
13	13C3-PFHpA	318 > 272.9	2.72e4	1.00	1.000	3.29	3.43	12.5	NO	100.0	0.0021576
14	13C3-PFHxS	401.8 > 79.9	1.48e4	1.00	1.000	3.94	4.04	12.5	NO	100.0	0.0036490
15	13C3-PFOA	421.3 > 376	7.77e3	1.00	1.000	4.22	4.32	12.5	NO	100.0	0.0021199
16	13C5-PFNA	472.2 > 428.9	8.87e3	1.00	1.000	4.56	4.64	12.5	NO	100.0	0.0028988
17	13C4-PFOS	503.0 > 79.9	6.73e3	1.60	1.000	4.67	4.70	12.5	NO	100.0	0.0015837
18	Total PFBS	299 > 79.7	3.44e2		1.000	3.11		0.283	NO		
19	Total PFHxS	398.9 > 79.6	3.63e2		1.000	4.09		0.259	NO		
20	Total PFOA	413 > 368.7	1.10e3		1.000	4.39		0.241	NO		
21	Total PFOS	499 > 79.9	3.72e1		1.000	4.67		0.234	NO		0.1069576



Dataset: Untitled

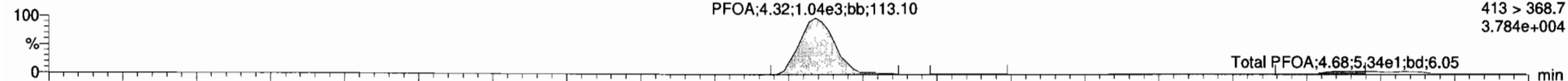
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

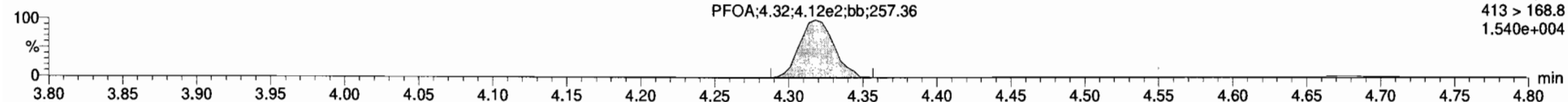
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Total PFOA

170305G1_2

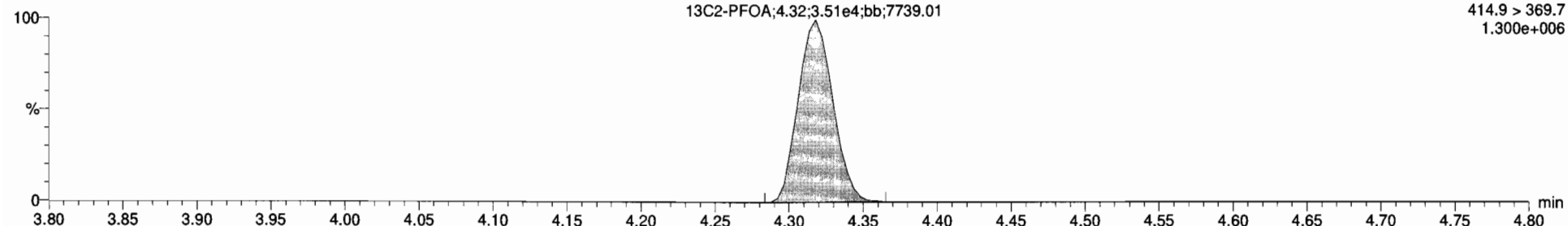


170305G1_2



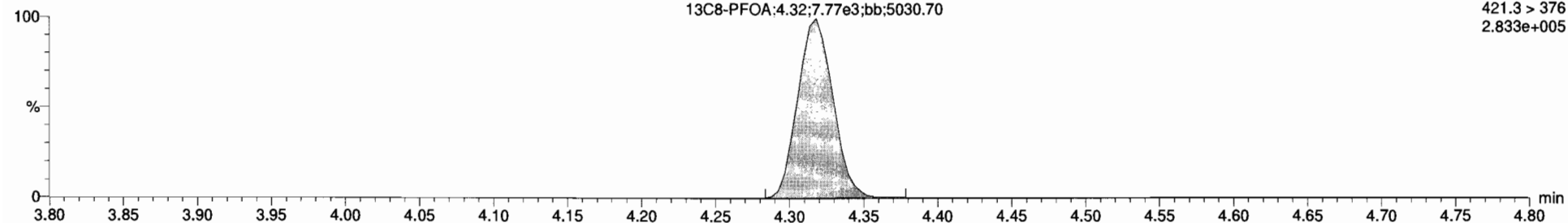
13C2-PFOA

170305G1_2



13C8-PFOA

170305G1_2

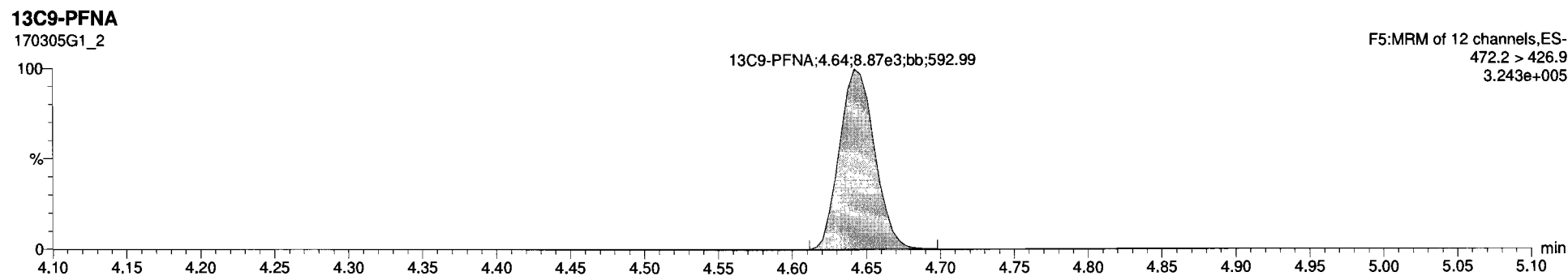
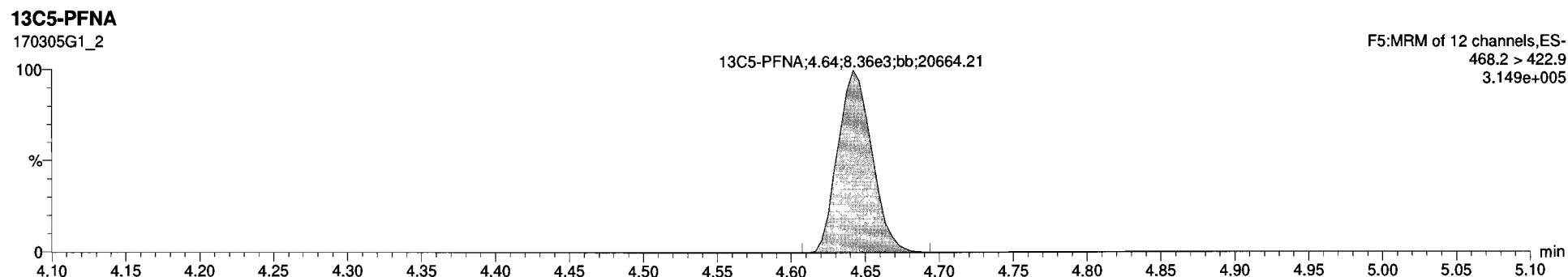
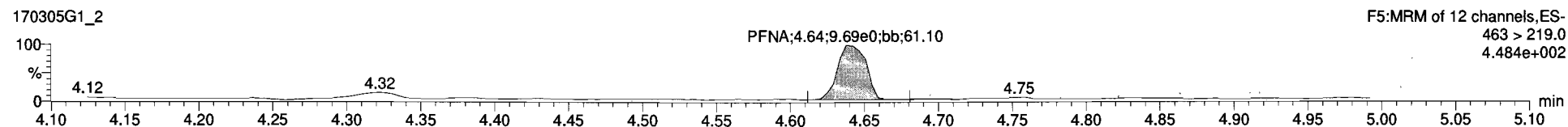
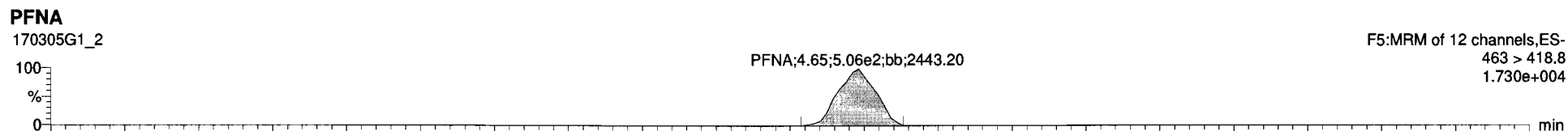


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Last Altered: Monday, March 06, 2017 08:36:20 Pacific Standard Time

Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

ID: ST170305G1-1 PFC CS-2 17C0501, Description: PFC CS-2 17C0501 A, Name: 170305G1_2, Date: 05-Mar-2017, Time: 12:46:48, Instrument: , Lab: , User:



Dataset: Untitled

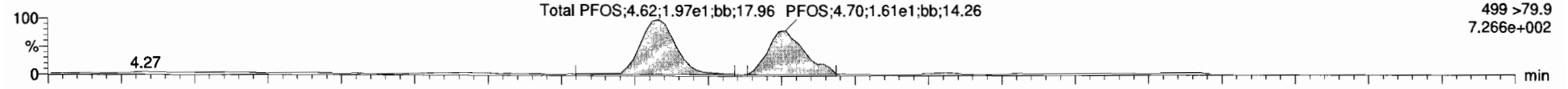
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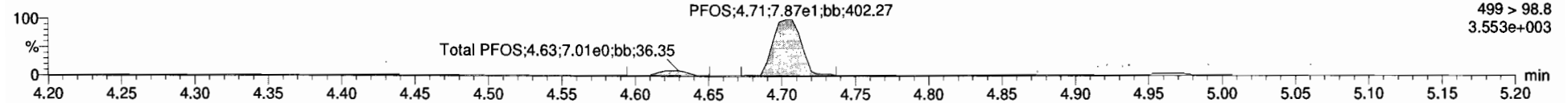
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Total PFOS

170305G1_2

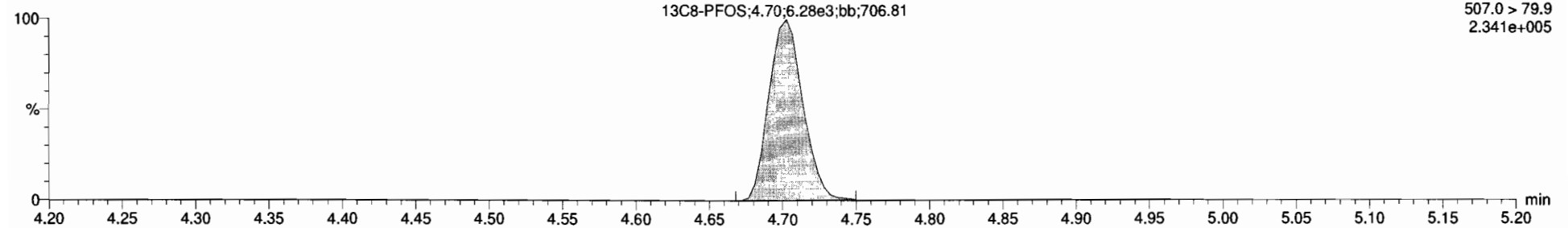


170305G1_2



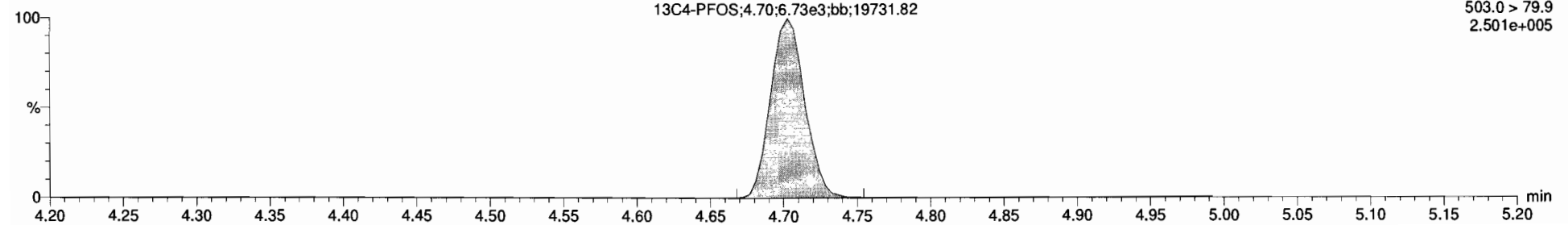
13C8-PFOS

170305G1_2



13C4-PFOS

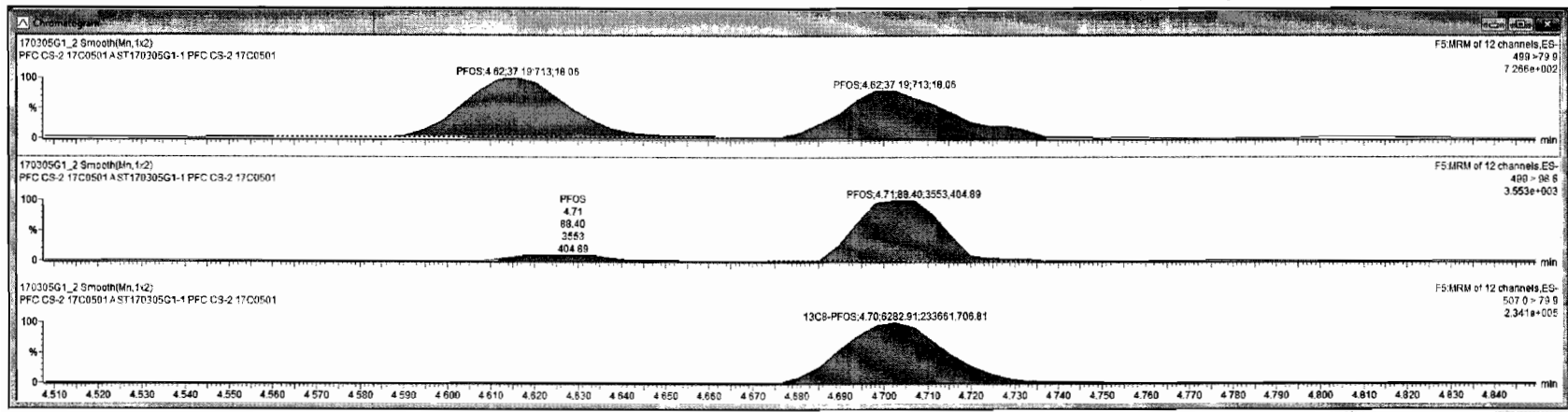
170305G1_2





170305G1_2 - ST170305G1-1-PFC CS-2 17C0501 - PFC CS-2 17C0501A

#	Name	Area	Area	RRF	Yield	Prod.RT	RT	Conc.	>MOL	%Rec	DL
1	PFBS	299 > 79.7	3.44e2		1.000	3.95	3.95	0.263	NO	165.1	
2	PFHpA	363 > 318.9	7.45e2		1.000	3.92	3.93	0.235	NO	94.2	
3	PFHxS	398.9 > 79.6	3.26e2		1.000	4.04	4.04	0.259	NO	103.8	
4	PFOA	413 > 368.7	1.04e3		1.000	4.32	4.32	0.241	NO	95.3	
5	PFNA	463 > 418.8	5.06e2		1.000	4.64	4.65	0.241	NO	96.5	
6	PFOS	499 > 79.9	3.72e1		1.000	4.71	4.62	0.234	NO	93.7	0.1069576
7	13C3-PFBS	302.0 > 98.8	6.21e3	0.410	1.000	3.94	3.95	12.8	NO	102.4	0.0035537
8	13C4-PFHpA	367.2 > 321.8	1.70e4	1.10	1.000	3.92	3.92	13.1	NO	105.0	0.0105143
9	18O2-PFHxS	403 > 102.6	7.11e3	0.434	1.000	4.04	4.04	13.8	NO	110.7	0.0025922
10	13C2-PFOA	414.9 > 369.7	3.51e4	4.61	1.000	4.32	4.32	12.2	NO	99.0	0.0040166
11	13C5-PFNA	468.2 > 422.9	8.36e3	0.867	1.000	4.64	4.64	13.6	NO	108.7	0.0016950
12	13C8-PFOS	507.0 > 79.9	6.28e3	0.958	1.000	4.70	4.70	12.2	NO	97.5	0.0431338
13	13C3-PFHxS	316 > 272.9	2.72e4	1.00	1.000	3.29	3.43	12.5	NO	100.0	0.0021578
14	13C3-PFHxS	401.9 > 79.9	1.48e4	1.00	1.000	3.94	4.04	12.5	NO	100.0	0.0006490
15	13C3-PFOA	421.3 > 376	7.77e3	1.00	1.000	4.22	4.32	12.5	NO	100.0	0.0052119
16	13C3-PFNA	472.2 > 426.5	8.87e3	1.00	1.000	4.58	4.64	12.5	NO	100.0	0.0526988
17	13C4-PFOS	503.0 > 79.9	6.73e3	1.00	1.000	4.67	4.70	12.5	NO	100.0	0.0015837
18	Total PFBS	299 > 79.7	3.44e2		1.000	3.11		0.263	NO		
19	Total PFHxS	398.9 > 79.6	3.63e2		1.000	4.09		0.259	NO		
20	Total PFOA	413 > 368.7	1.10e3		1.000	4.39		0.241	NO		
21	Total PFOS	499 > 79.9	3.72e1		1.000	4.67		0.234	NO		0.1069576



Ready

170305G1_2

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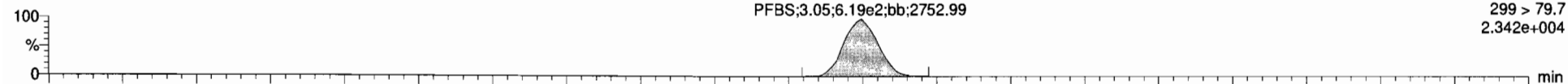
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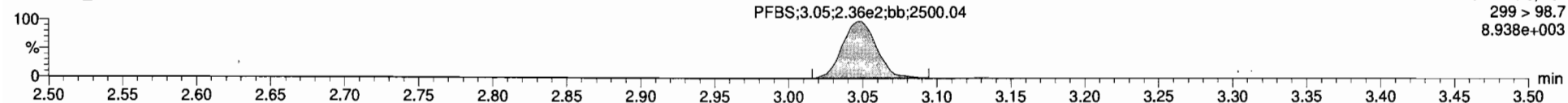
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PFBS

170305G1_3

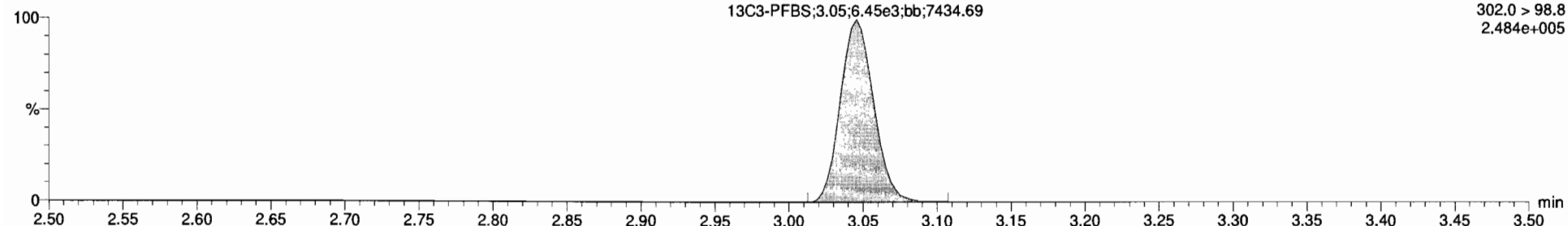


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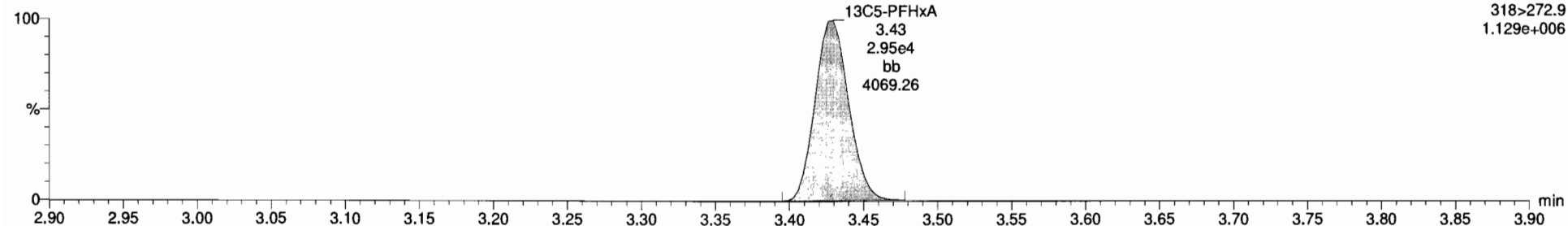
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170305G1_3



13C5-PFHxA

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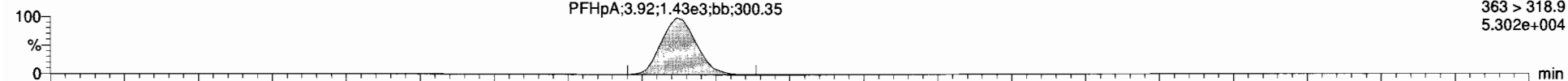
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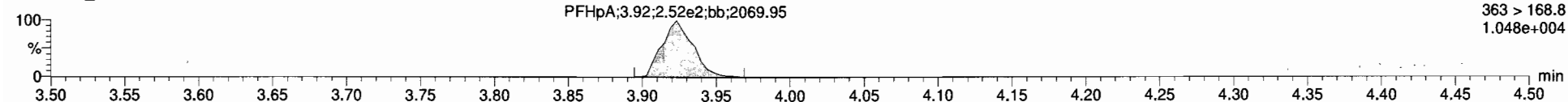
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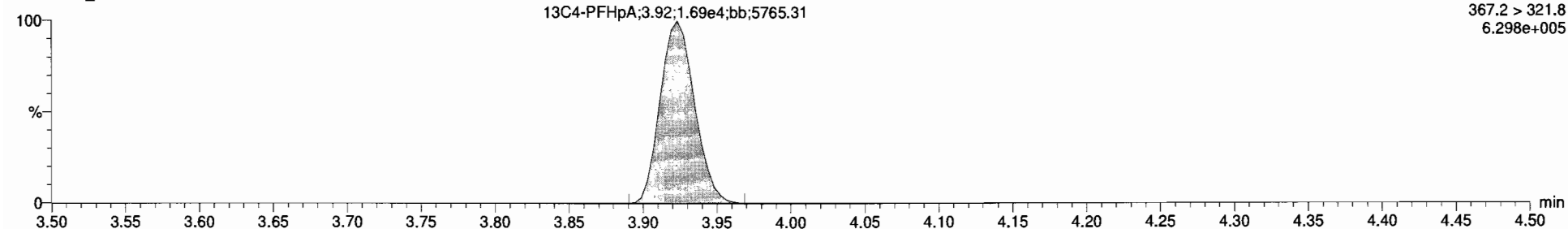


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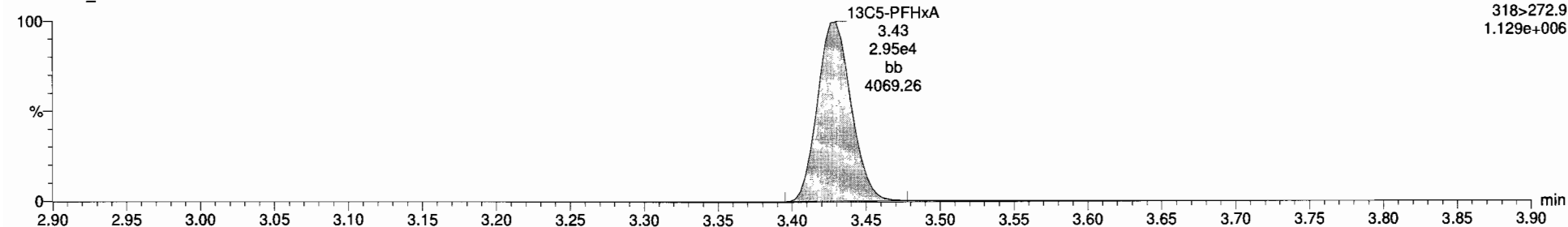
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13C5-PFHxA

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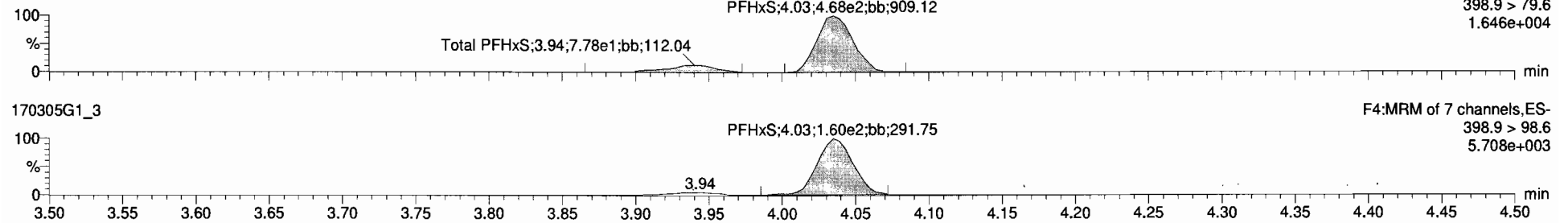
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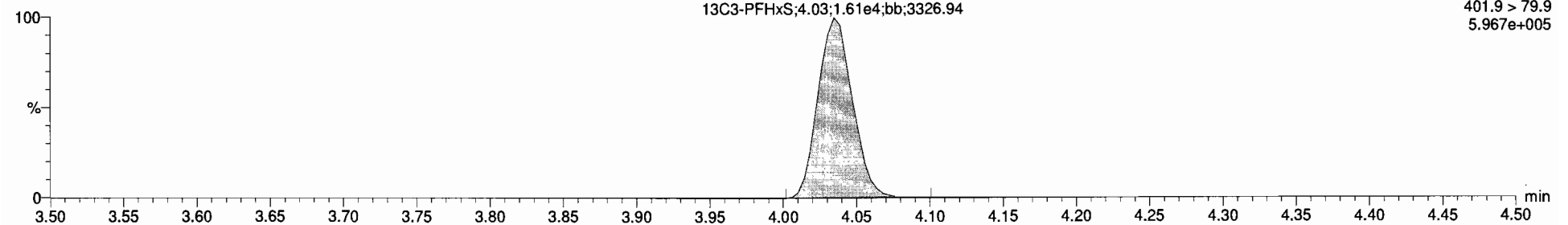
Total PFHxS

170305G1_3



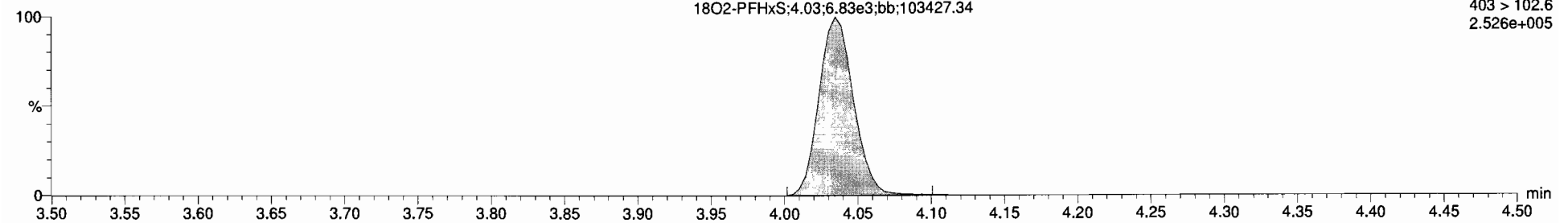
13C3-PFHxS

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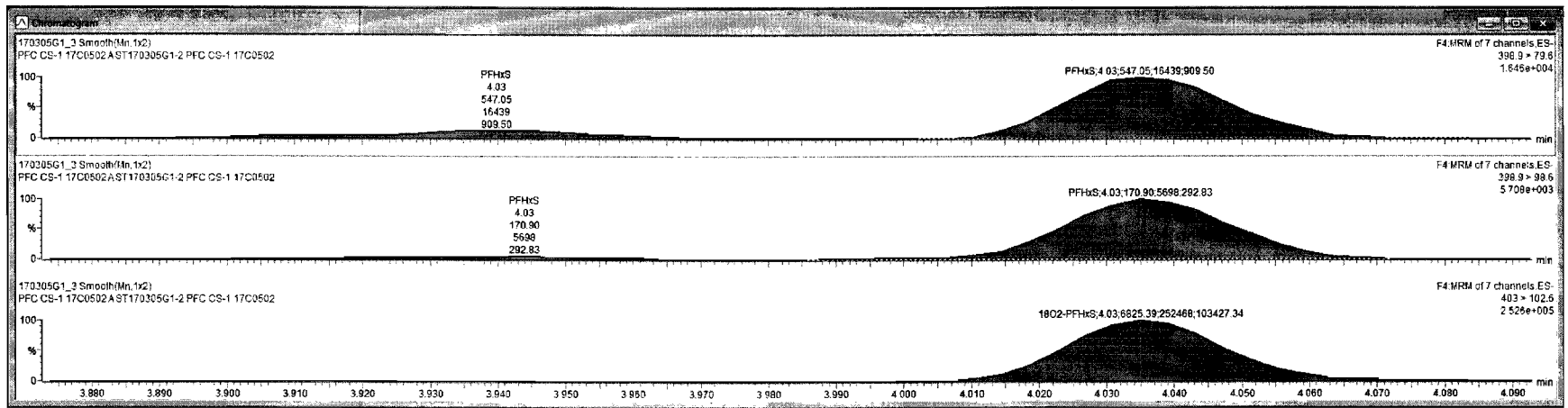


18O2-PFHxS

170305G1_3



Name	Trace	Area	RRF	WtVol	Pred.RT	RT	Conc.	>NDL	%Rec	DL	
1	PFBS	299 > 79.7	6.19e2	1.000	3.05	3.05	0.475	NO	95.0		
2	PFHpA	363 > 318.9	1.43e3	1.000	3.92	3.92	0.518	NO	103.7		
3	PFHxS	398.9 > 79.8	5.47e2	1.000	4.03	4.03	0.496	NO	99.1		
4	PFOA	413 > 368.7	1.52e3	1.000	4.31	4.31	0.452	NO	90.4		
5	PFNA	463 > 418.8	8.81e2	1.000	4.64	4.64	0.489	NO	97.9		
6	PFOS	499 > 79.9	7.39e1	1.000	4.71	4.71	0.358	NO	71.5	0.1053526	
7	13C3-PFBS	302.0 > 98.8	6.45e3	0.410	1.000	3.04	3.95	12.2	NO	97.5	0.0042668
8	13C4-PFHpA	367.2 > 321.8	1.89e4	1.10	1.000	3.91	3.92	11.9	NO	95.5	0.0052041
9	18O2-PFHxS	403 > 102.6	6.83e3	0.434	1.000	4.03	4.03	12.2	NO	97.4	0.0002946
10	13C2-PFOA	414.9 > 369.7	3.53e4	4.61	1.000	4.31	4.31	11.8	NO	94.2	0.0083474
11	13C3-PFNA	468.2 > 422.9	7.87e3	0.867	1.000	4.64	4.64	13.5	NO	107.9	0.0073319
12	13C8-PFOS	507.0 > 79.9	6.57e3	0.958	1.000	4.70	4.70	12.1	NO	96.4	0.0047793
13	13C5-PFHxA	318 > 272.9	2.95e4	1.00	1.000	3.29	3.43	12.5	NO	100.0	0.0076795
14	13C3-PFHxS	401.9 > 79.9	1.61e4	1.00	1.000	3.94	4.03	12.5	NO	100.0	0.0083970
15	13C8-PFOA	421.3 > 376	8.14e3	1.00	1.000	4.22	4.31	12.5	NO	100.0	0.0096315
16	13C9-PFNA	472.2 > 426.8	8.20e3	1.00	1.000	4.56	4.64	12.5	NO	100.0	0.0015263
17	13C4-PFOS	503.0 > 79.9	7.11e3	1.00	1.000	4.67	4.70	12.5	NO	100.0	0.0052005
18	Total PFBS	299 > 79.7	6.19e2		1.000	3.11		0.475	NO		
19	Total PFHxS	398.9 > 79.8	6.25e2		1.000	4.09		0.517	NO		
20	Total PFOA	413 > 368.7	1.56e3		1.000	4.39		0.452	NO		
21	Total PFOS	499 > 79.9	9.52e1		1.000	4.67		0.530	NO		0.1053528



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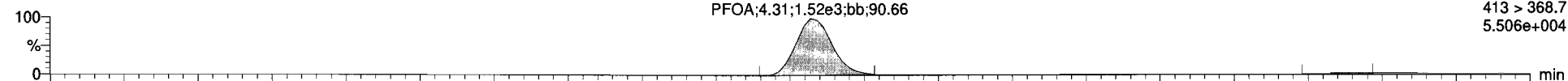
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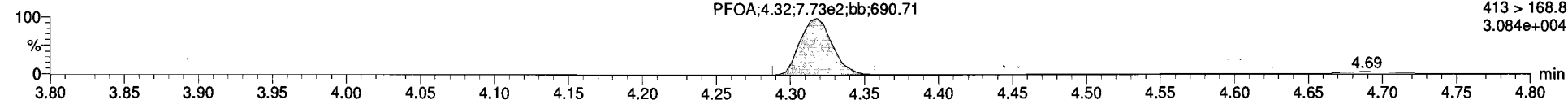
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Total PFOA

170305G1_3

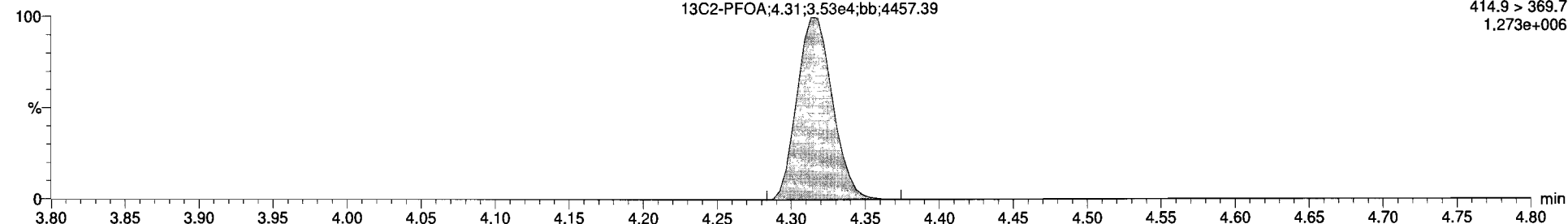


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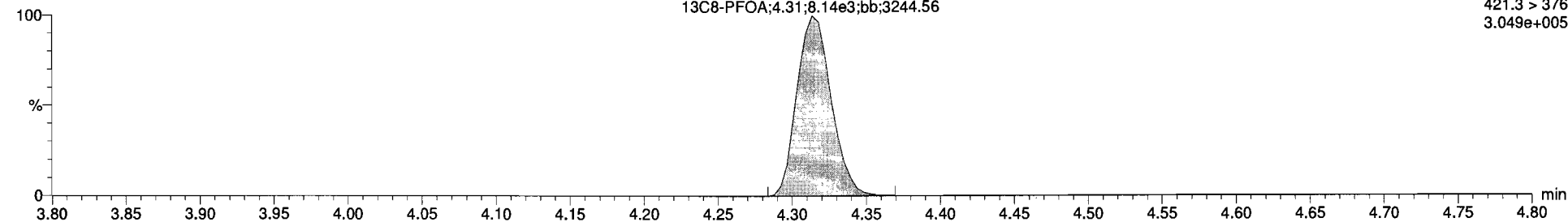
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13C8-PFOA

170305G1_3



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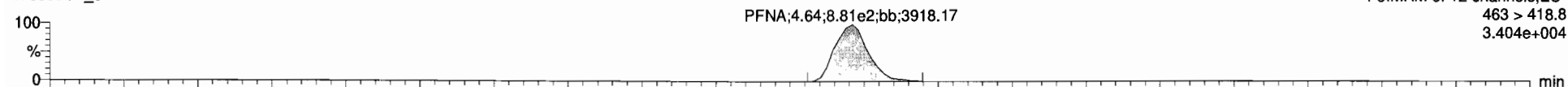
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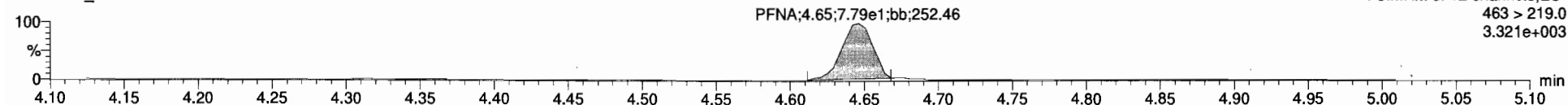
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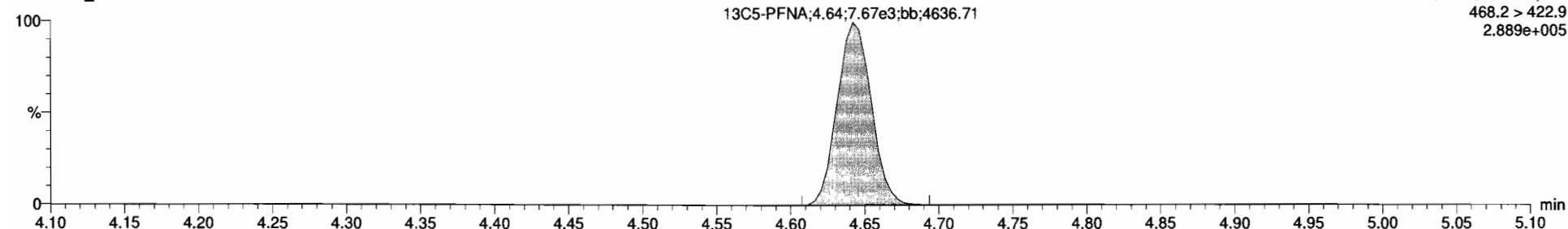


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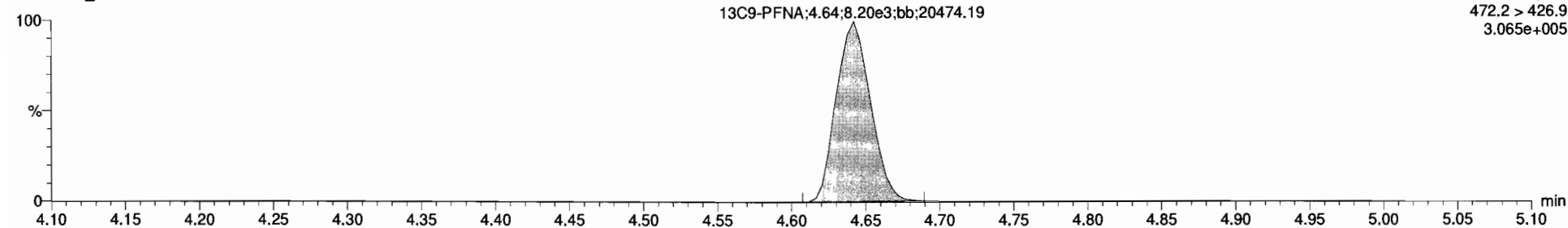
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170305G1_3



13C9-PFNA

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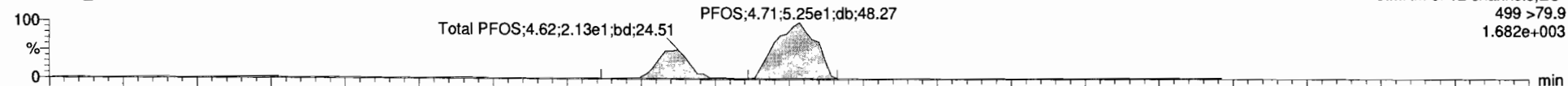
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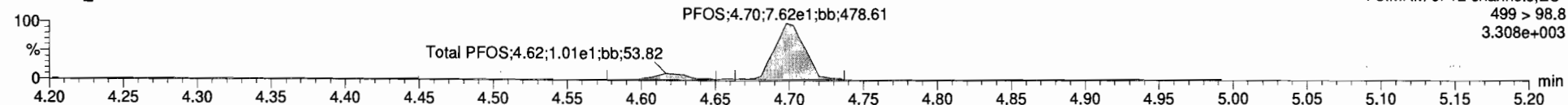
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Total PFOS

170305G1_3

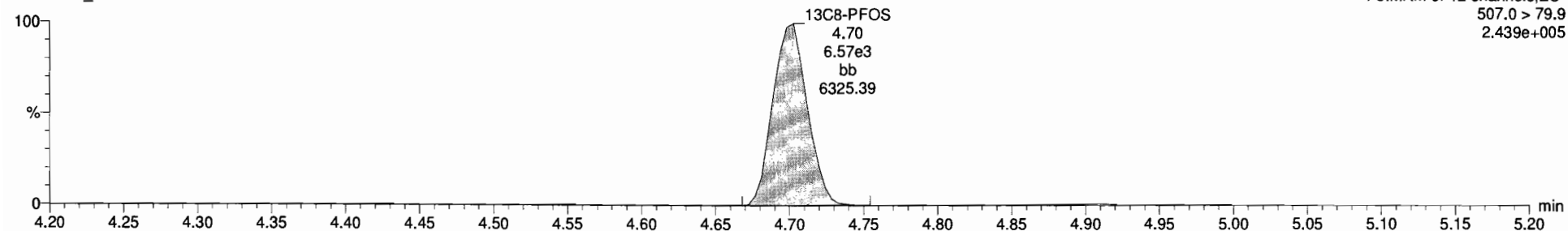


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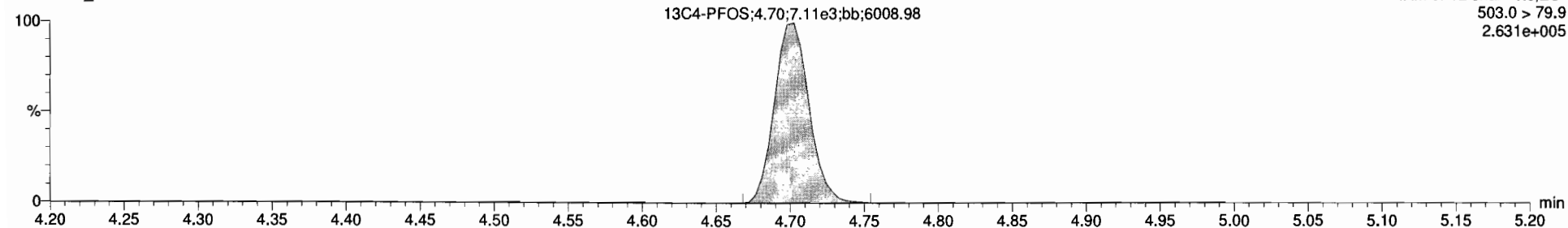
13C8-PFOS

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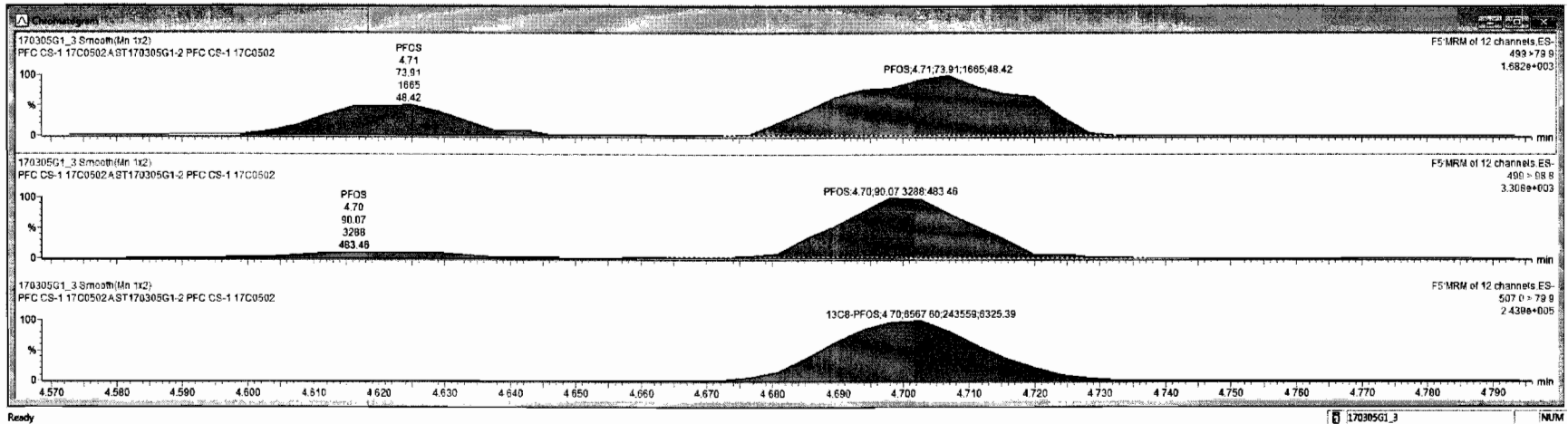
13C4-PFOS

170305G1_3





Name	Trace	Area	RRF	WtVal	PreRet	RT	Conc	>MDL	%Rec	DL
PFBS	299 > 79.7	6.19e2		1.000	3.05	3.65	0.475	NO	95.0	
PFHpA	362 > 318.9	1.43e3		1.000	3.92	3.92	0.518	NO	103.7	
PFHxS	388.9 > 79.6	5.47e2		1.000	4.03	4.03	0.490	NO	99.1	
PFOA	413 > 368.7	1.52e3		1.000	4.31	4.31	0.452	NO	90.4	
PFNA	463 > 418.8	8.81e2		1.000	4.64	4.64	0.489	NO	97.8	
PFOS	499 > 79.9	7.39e1		1.000	4.71	4.71	0.358	NO	71.5	0.1053526
13C3-PFBS	302.0 > 98.8	6.45e3	0.410	1.000	3.04	3.05	12.2	NO	97.5	0.0042968
13C4-PFHpA	367.2 > 321.8	1.69e4	1.10	1.000	3.91	3.92	11.9	NO	95.5	0.0052041
18O2-PFHxS	403 > 102.6	6.83e3	0.434	1.000	4.03	4.03	12.2	NO	97.4	0.0002948
13C2-PFOA	414.9 > 369.7	3.53e4	4.61	1.000	4.31	4.31	11.8	NO	94.2	0.0063474
13C5-PFNA	468.2 > 422.9	7.67e3	0.867	1.000	4.64	4.64	13.5	NO	107.9	0.0073319
13C8-PFOS	507.0 > 79.9	6.57e3	0.958	1.000	4.70	4.70	12.1	NO	96.4	0.0047793
13C5-PFHxA	318 > 272.9	2.95e4	1.00	1.000	3.29	3.43	12.5	NO	100.0	0.0076795
13C3-PFHxS	401.9 > 79.9	1.61e4	1.00	1.000	3.94	4.03	12.5	NO	100.0	0.0093930
13C8-PFOA	421.3 > 376	8.14e3	1.00	1.000	4.22	4.31	12.5	NO	100.0	0.006315
13C9-PFNA	472.2 > 426.9	8.20e3	1.00	1.000	4.55	4.64	12.5	NO	100.0	0.0015263
13C4-PFOS	503.0 > 79.9	7.11e3	1.00	1.000	4.67	4.70	12.5	NO	100.0	0.0052005
Total PFBS	299 > 79.7	6.19e2		1.000	3.11		0.475	NO		
Total PFHxS	388.9 > 79.6	6.25e2		1.000	4.09		0.517	NO		
Total PFOA	413 > 368.7	1.56e3		1.000	4.39		0.452	NO		
Total PFOS	499 > 79.9	9.52e1		1.000	4.67		0.530	NO		0.1053526



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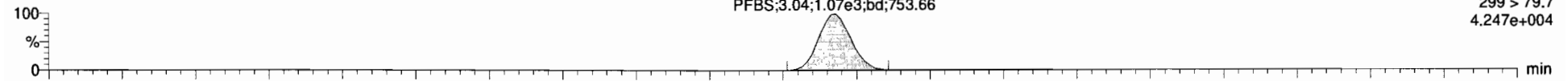
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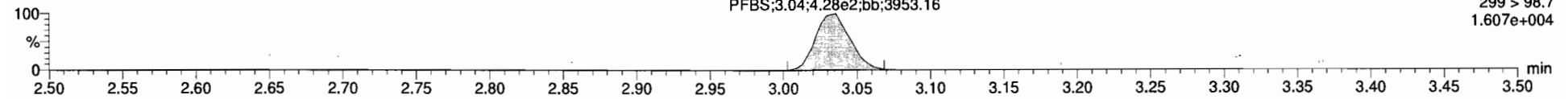
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PFBS

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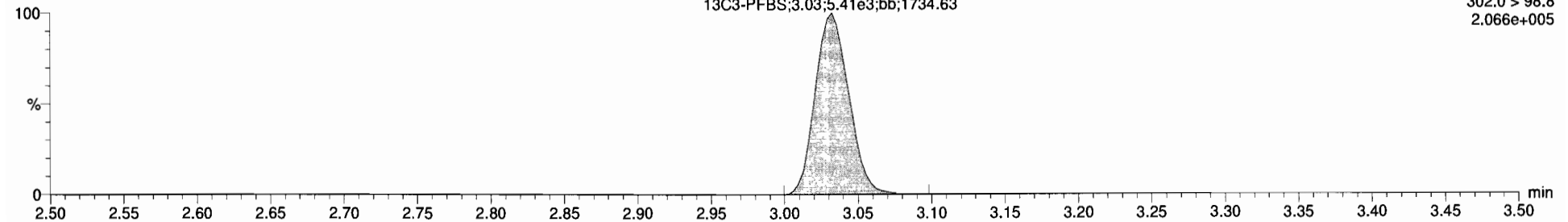


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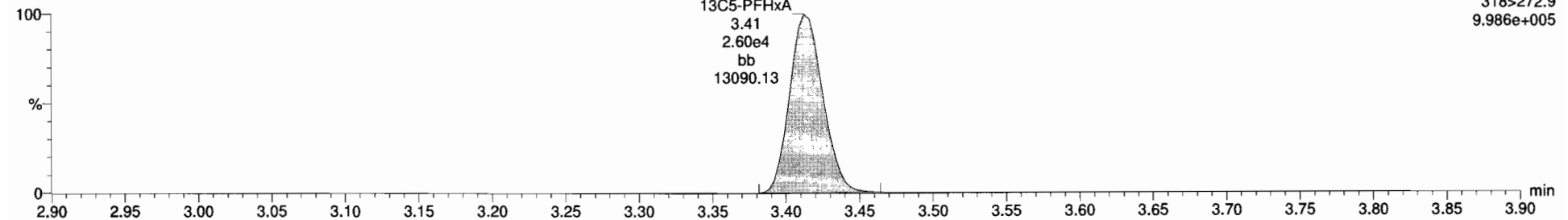
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13C5-PFHxA

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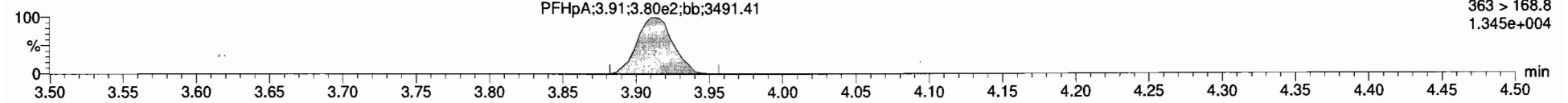
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PFHpA

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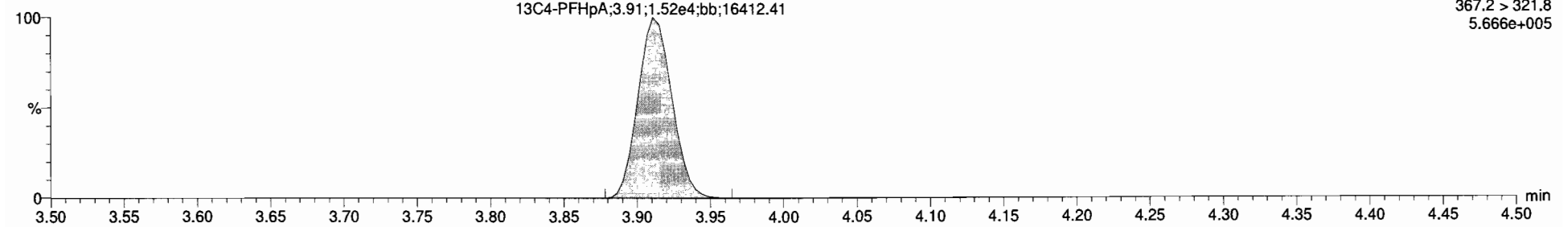


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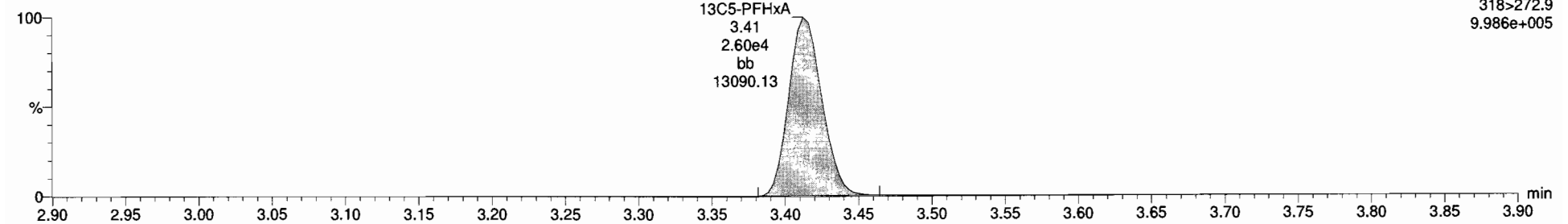
13C4-PFHpA

170305G1_4



13C5-PFHxA

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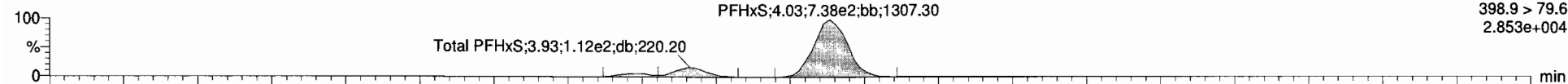
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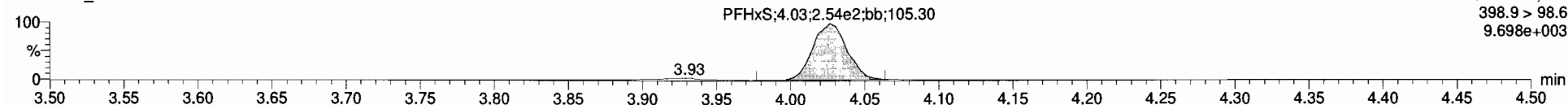
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Total PFHxS

170305G1_4

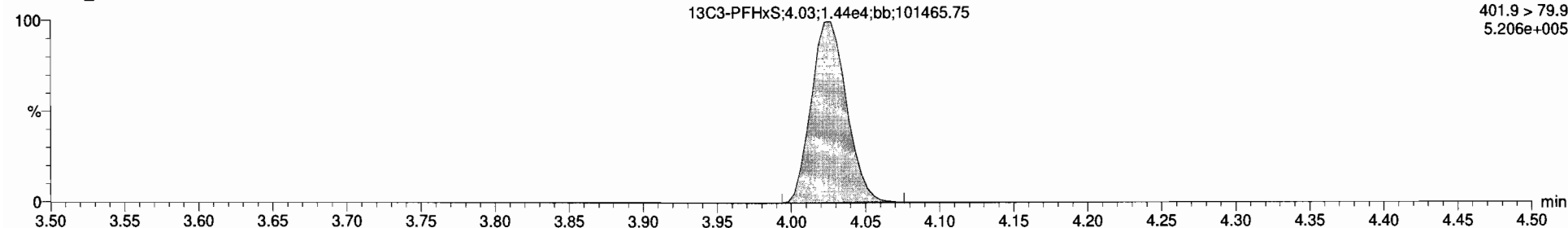


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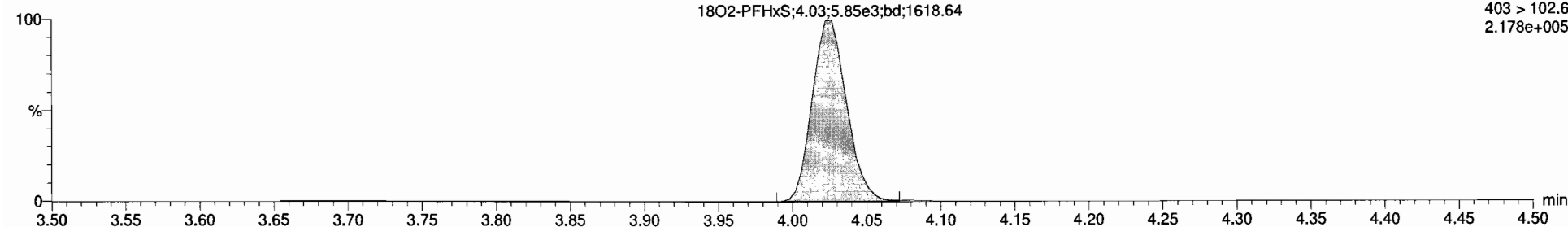
13C3-PFHxS

170305G1_4

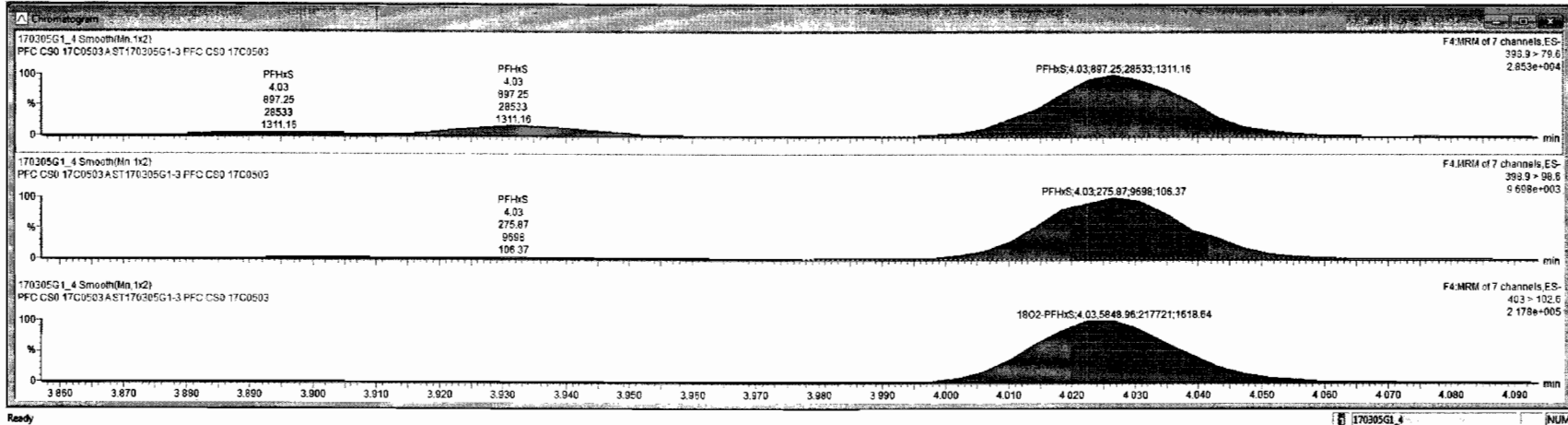


18O2-PFHxS

170305G1_4



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1	PFBS	299 > 79.7	1.07e3	1.000	3.03	3.04	1.91	NO	101.1	
2	PFHpA	363 > 318.9	2.27e3	1.000	3.91	3.91	0.964	NO	96.4	
3	PFHxS	398.9 > 79.6	2.67e3	1.000	4.03	4.03	1.00	NO	100.0	
4	PFOA	413 > 368.7	2.09e3	1.000	4.31	4.30	0.908	NO	90.8	
5	PFNA	463 > 419.5	1.26e3	1.000	4.63	4.63	0.958	NO	95.8	
6	PFOS	499 > 79.9	1.82e2	1.000	4.70	4.69	0.589	NO	58.9	0.1002511
7	13C3-PFBS	302.0 > 98.8	5.41e3	0.410	1.000	3.03	3.03	11.5	91.5	0.0174615
8	13C4-PFHpA	367.2 > 321.5	1.52e4	1.10	1.000	3.90	3.91	12.1	96.6	0.0018598
9	18O2-PFHxS	403 > 102.6	5.85e3	0.434	1.000	4.03	4.03	11.7	93.8	0.0186300
10	13C2-PFOA	414.9 > 369.7	2.91e4	4.61	1.000	4.30	4.31	12.4	99.0	0.0006311
11	13C5-PFNA	468.2 > 422.9	5.74e3	0.867	1.000	4.63	4.63	11.6	92.6	0.0007193
12	13C8-PFOS	507.0 > 79.9	4.73e3	0.958	1.000	4.69	4.69	11.9	95.3	0.0110670
13	13C5-PFNaA	318 > 272.9	2.60e4	1.00	1.000	3.29	3.41	12.5	NO	100.0
14	13C3-PFHxS	401.9 > 79.9	1.44e4	1.00	1.000	3.94	4.03	12.5	NO	100.0
15	13C8-PFOA	421.3 > 376	6.38e3	1.00	1.000	4.22	4.30	12.5	NO	100.0
16	13C9-PFNA	472.2 > 428.9	7.15e3	1.00	1.000	4.56	4.63	12.5	NO	100.0
17	13C4-PFOS	503.0 > 79.9	5.19e3	1.00	1.000	4.67	4.69	12.5	NO	100.0
18	Total PFBS	299 > 79.7	1.08e3		1.000	3.11				
19	Total PFHxS	398.9 > 79.6	1.05e3		1.000	4.09				
20	Total PFOA	413 > 368.7	2.16e3		1.000	4.39				
21	Total PFOS	499 > 79.9	2.19e2		1.000	4.67				



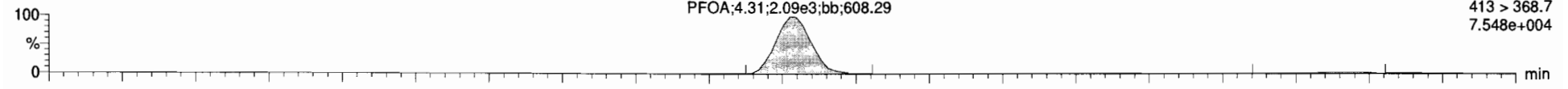
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Last Altered: Monday, March 06, 2017 08:36:20 Pacific Standard Time
Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

ID: ST170305G1-3 PFC CS0 17C0503, Description: PFC CS0 17C0503 A, Name: 170305G1_4, Date: 05-Mar-2017, Time: 13:11:49, Instrument: , Lab: , User:

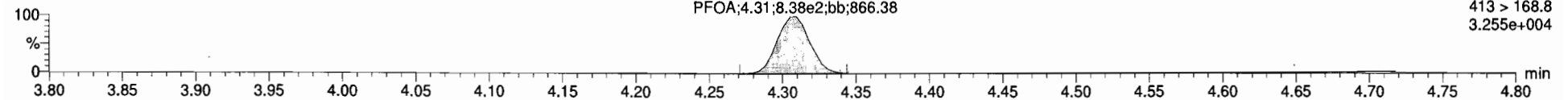
Total PFOA

170305G1_4



F5:MRM of 12 channels,ES-
413 > 368.7
7.548e+004

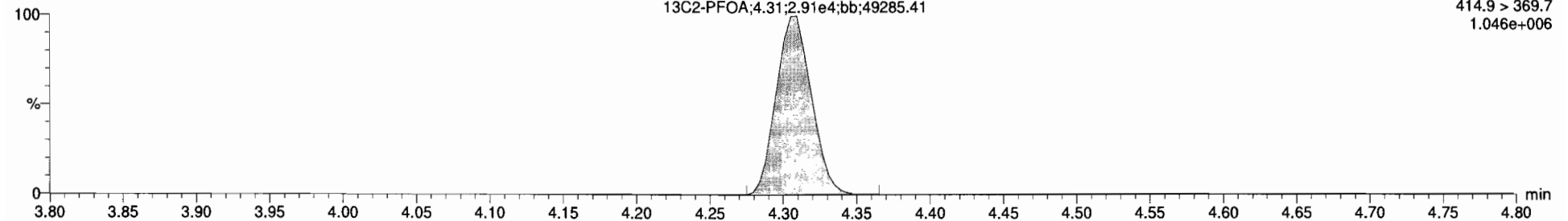
170305G1_4



F5:MRM of 12 channels,ES-
413 > 168.8
3.255e+004

13C2-PFOA

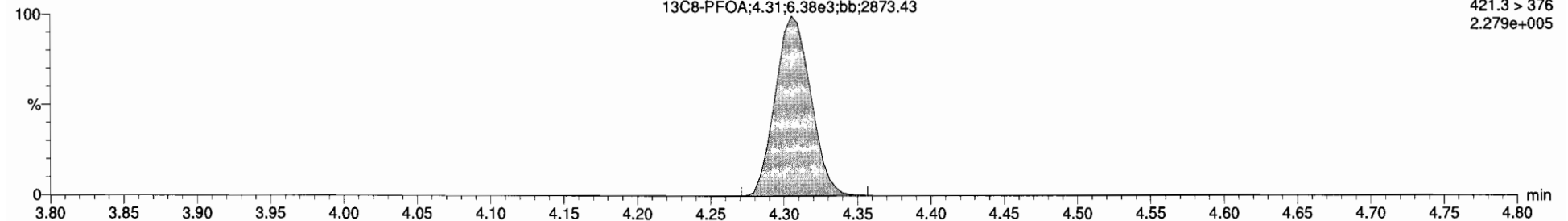
170305G1_4



F5:MRM of 12 channels,ES-
414.9 > 369.7
1.046e+006

13C8-PFOA

170305G1_4



F5:MRM of 12 channels,ES-
421.3 > 376
2.279e+005

Dataset: Untitled

Last Altered: Monday, March 06, 2017 08:36:20 Pacific Standard Time

Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

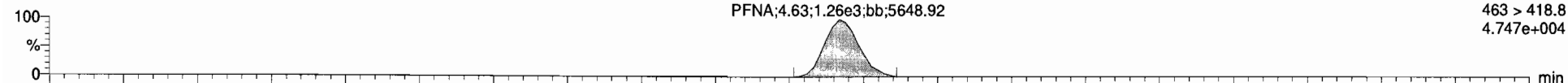
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PFNA

170305G1_4

PFNA;4.63;1.26e3;bb;5648.92

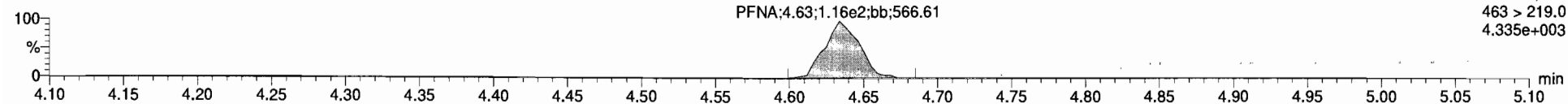
F5:MRM of 12 channels,ES-
463 > 418.8
4.747e+004



170305G1_4

PFNA;4.63;1.16e2;bb;566.61

F5:MRM of 12 channels,ES-
463 > 219.0
4.335e+003

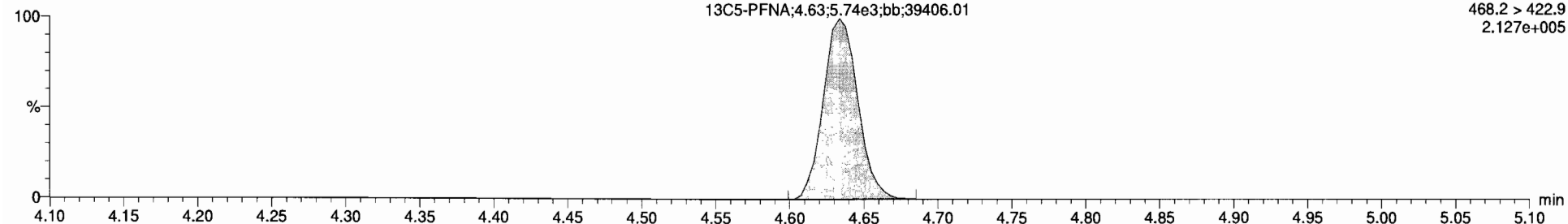


13C5-PFNA

170305G1_4

13C5-PFNA;4.63;5.74e3;bb;39406.01

F5:MRM of 12 channels,ES-
468.2 > 422.9
2.127e+005

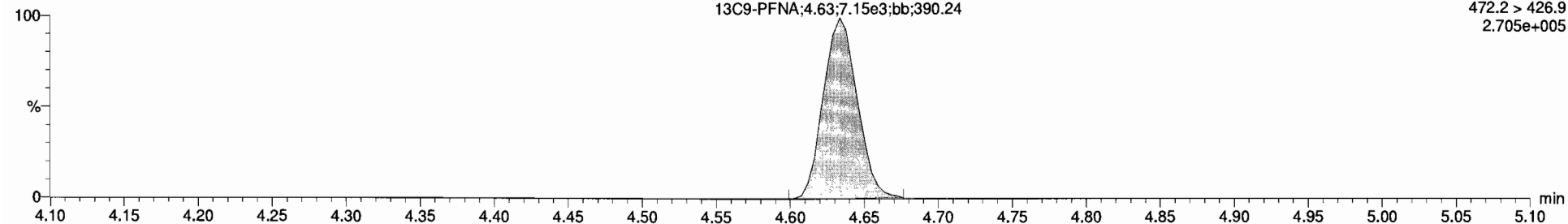


13C9-PFNA

170305G1_4

13C9-PFNA;4.63;7.15e3;bb;390.24

F5:MRM of 12 channels,ES-
472.2 > 426.9
2.705e+005



Dataset: Untitled

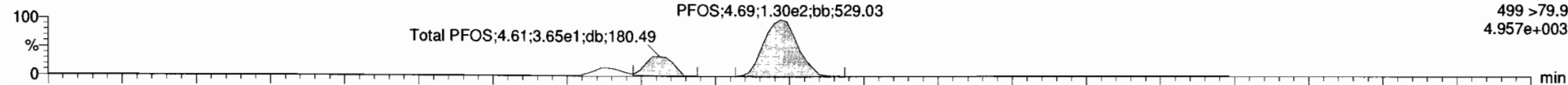
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

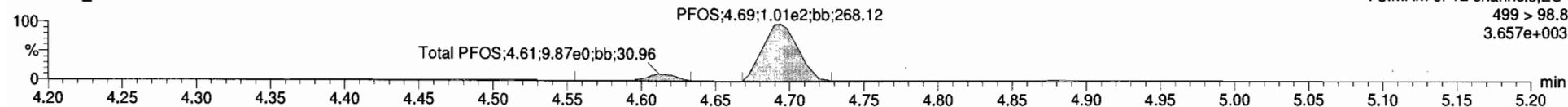
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Total PFOS

170305G1_4

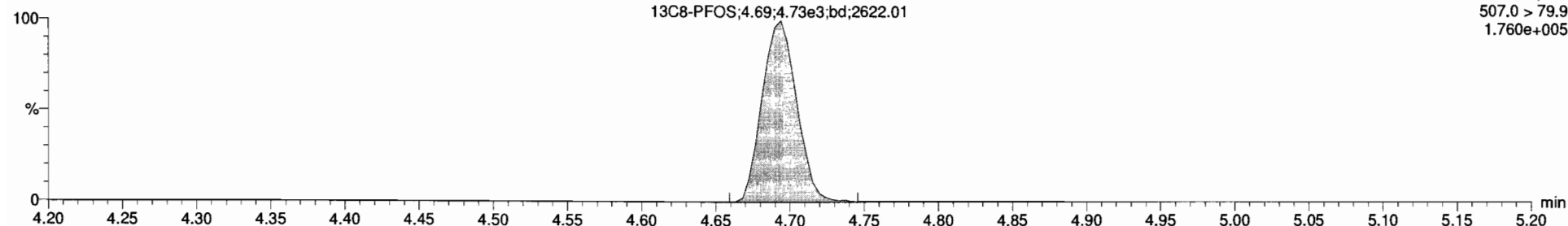


170305G1_4



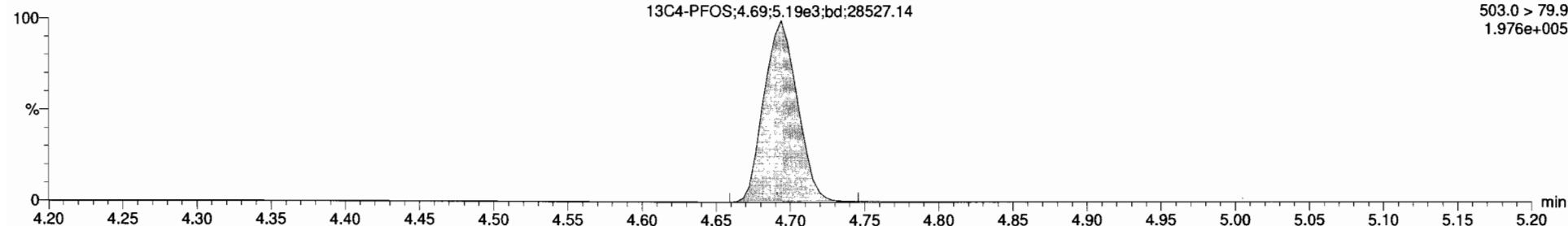
13C8-PFOS

170305G1_4

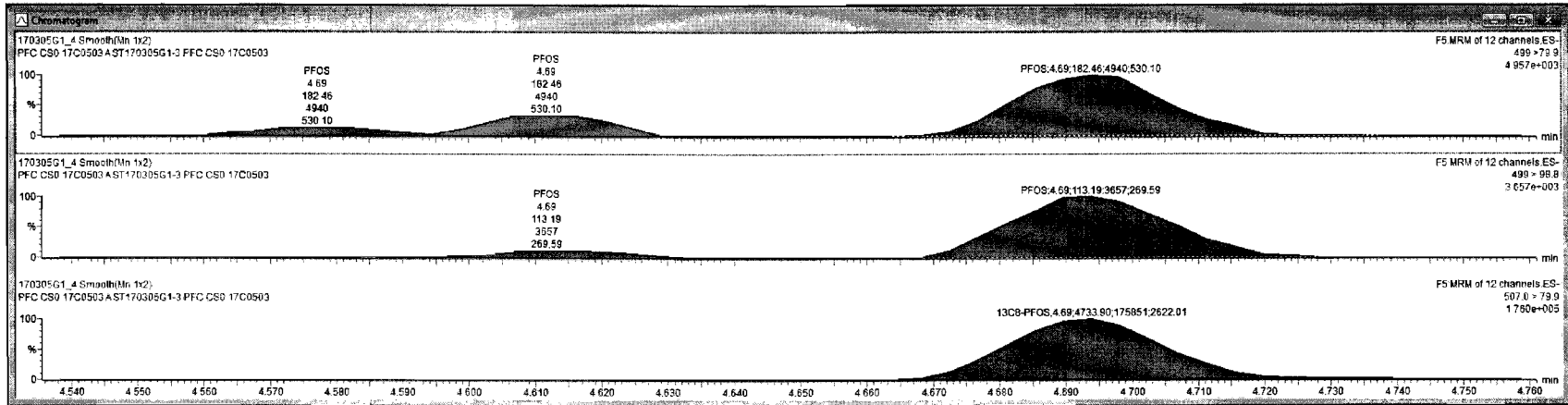


13C4-PFOS

170305G1_4



Name	Trace	Area	RRF	WtVol	Pred.RT	RT	Conc	>NDC	%Rec	Dt	
1	PFBS	299 > 79.7	1.07e3	1.000	3.03	3.04	1.01	NO	181.1		
2	PFHpA	363 > 316.9	2.27e3	1.000	3.91	3.91	0.964	NO	96.4		
3	PFHxS	398.9 > 79.6	8.97e2	1.000	4.03	4.03	1.00	NO	100.1		
4	PFOA	413 > 368.7	2.19e3	1.000	4.31	4.30	0.908	NO	90.8		
5	PFNA	463 > 416.8	1.26e3	1.000	4.63	4.63	0.968	NO	96.8		
6	PFOS	499 > 79.9	1.82e2	1.000	4.70	4.69	0.989	NO	98.9	0.1002511	
7	13C3-PFBS	302.0 > 98.8	5.41e3	0.410	1.000	3.03	3.03	11.5	NO	91.9	0.0174615
8	13C4-PFHpA	367.2 > 321.8	1.52e4	1.10	1.000	3.90	3.91	12.1	NO	96.6	0.0018598
9	18O2-PFHxS	403 > 102.8	5.85e3	0.434	1.000	4.03	4.03	11.7	NO	93.8	0.0186308
10	13C2-PFOA	414.9 > 369.7	2.91e4	4.61	1.000	4.20	4.31	12.4	NO	99.0	0.0009311
11	13C5-PFNA	468.2 > 422.9	5.74e3	0.867	1.000	4.63	4.63	11.6	NO	92.6	0.0007193
12	13C8-PFOS	507.0 > 79.9	4.73e3	0.958	1.000	4.69	4.69	11.9	NO	95.3	0.0110670
13	13C5-PFHxS	318 > 272.9	2.60e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0023873
14	13C1-PFHxS	401.9 > 79.9	1.44e4	1.00	1.000	3.94	4.03	12.5	NO	100.0	0.0003080
15	13C8-PFOA	421.3 > 376	6.38e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0108755
16	13C8-PFNA	472.2 > 426.9	7.15e3	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0808798
17	13C4-PFOS	503.0 > 79.9	5.19e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0010954
18	Total PFBS	299 > 79.7	1.08e3		1.000	3.11		1.01	NO		
19	Total PFHxS	398.9 > 79.6	1.05e3		1.000	4.09		1.08	NO		
20	Total PFOA	413 > 368.7	2.19e3		1.000	4.39		6.908	NO		
21	Total PFOS	499 > 79.9	2.19e2		1.000	4.67		1.26	NO		0.1002511



Ready

170305G1_4

NUM

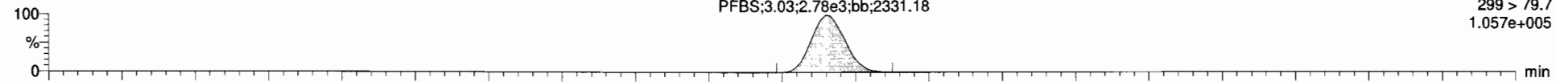
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Last Altered: Monday, March 06, 2017 08:36:20 Pacific Standard Time
Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

ID: ST170305G1-4 PFC CS1 17C0504, Description: PFC CS1 17C0504 A, Name: 170305G1_5, Date: 05-Mar-2017, Time: 13:24:21, Instrument: , Lab: , User:

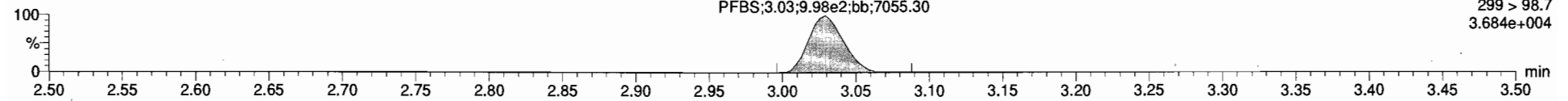
PFBS

170305G1_5



F2:MRM of 3 channels,ES-
299 > 79.7
1.057e+005

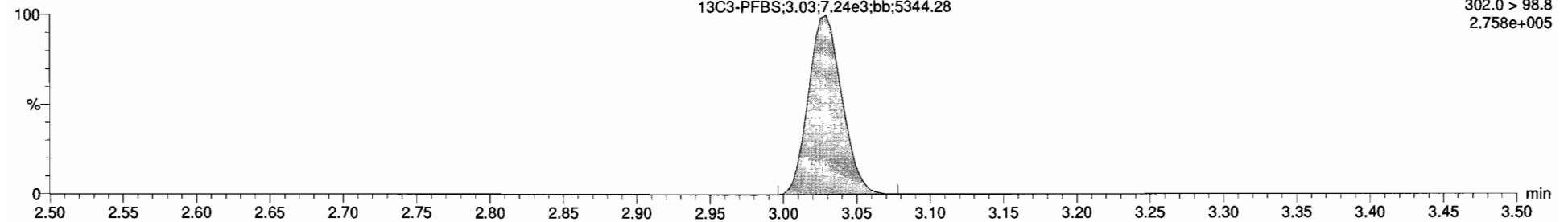
170305G1_5



F2:MRM of 3 channels,ES-
299 > 98.7
3.684e+004

13C3-PFBS

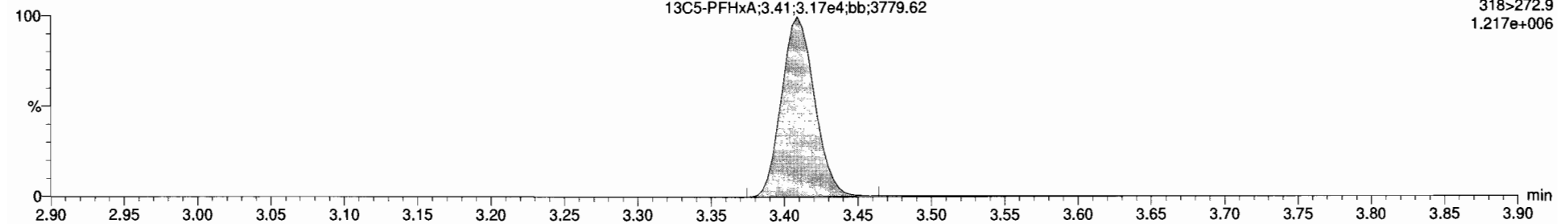
170305G1_5



F2:MRM of 3 channels,ES-
302.0 > 98.8
2.758e+005

13C5-PFHxA

170305G1_5



F3:MRM of 1 channel,ES-
318>272.9
1.217e+006

Dataset: Untitled

Last Altered: Monday, March 06, 2017 08:36:20 Pacific Standard Time

Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

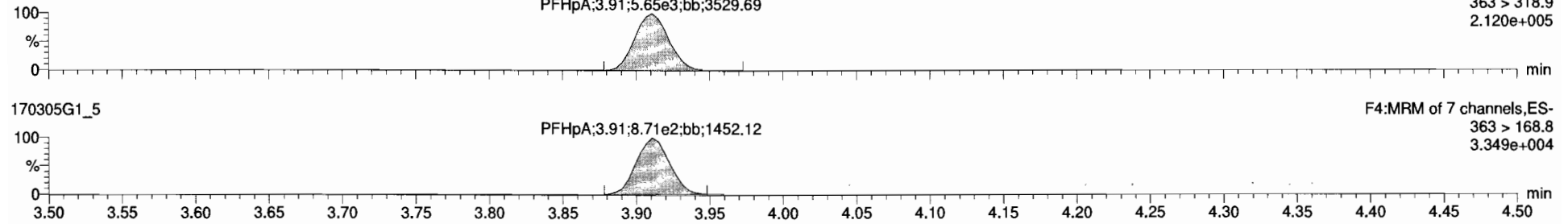
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PFHpA

170305G1_5

PFHpA;3.91;5.65e3;bb;3529.69

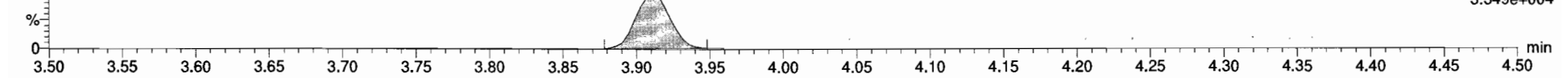
F4:MRM of 7 channels,ES-
363 > 318.9
2.120e+005



170305G1_5

PFHpA;3.91;8.71e2;bb;1452.12

F4:MRM of 7 channels,ES-
363 > 168.8
3.349e+004

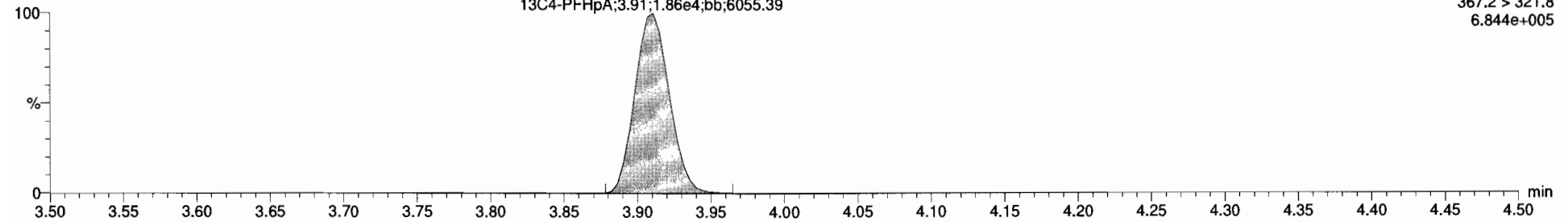


13C4-PFHpA

170305G1_5

13C4-PFHpA;3.91;1.86e4;bb;6055.39

F4:MRM of 7 channels,ES-
367.2 > 321.8
6.844e+005

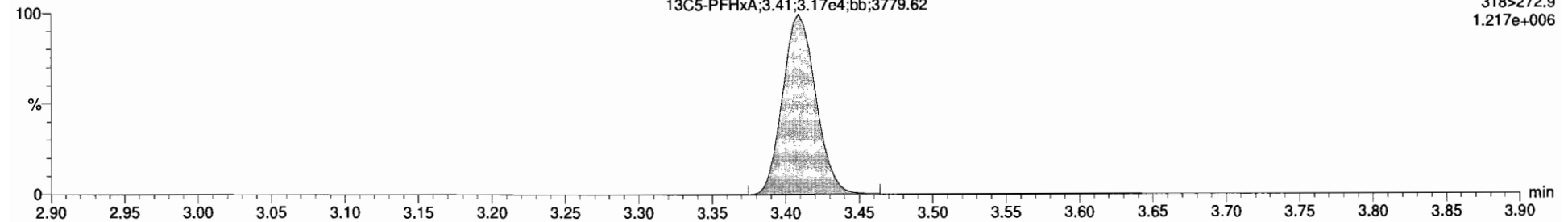


13C5-PFHxA

170305G1_5

13C5-PFHxA;3.41;3.17e4;bb;3779.62

F3:MRM of 1 channel,ES-
318>272.9
1.217e+006



Dataset: Untitled

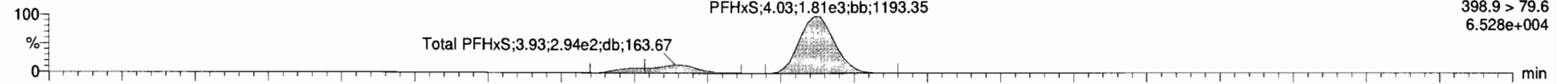
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

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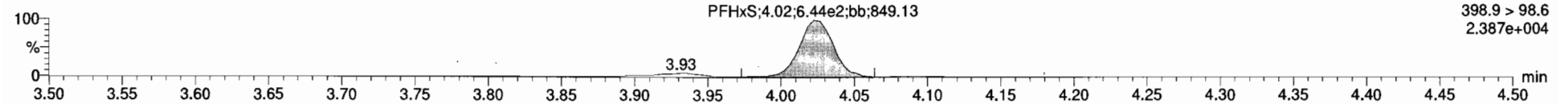
Total PFHxS

170305G1_5



F4:MRM of 7 channels,ES-
398.9 > 79.6
6.528e+004

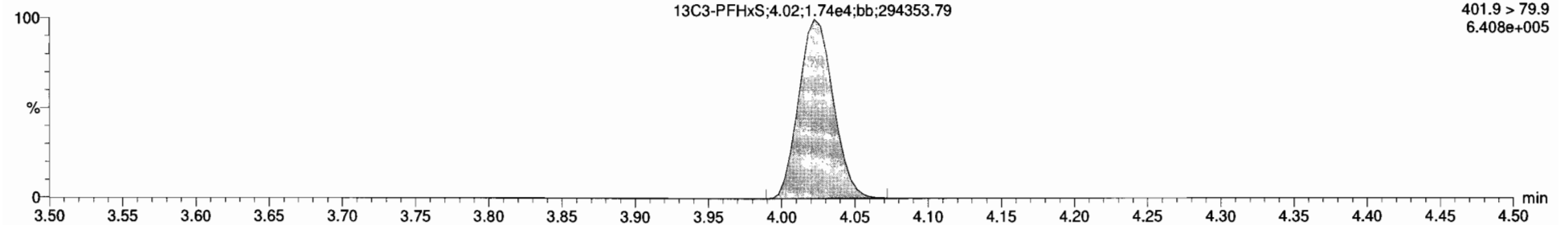
170305G1_5



F4:MRM of 7 channels,ES-
398.9 > 98.6
2.387e+004

13C3-PFHxS

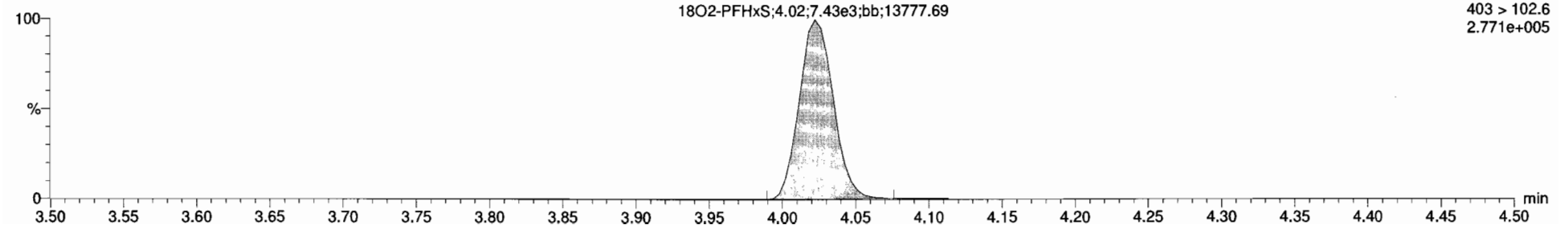
170305G1_5



F4:MRM of 7 channels,ES-
401.9 > 79.9
6.408e+005

18O2-PFHxS

170305G1_5

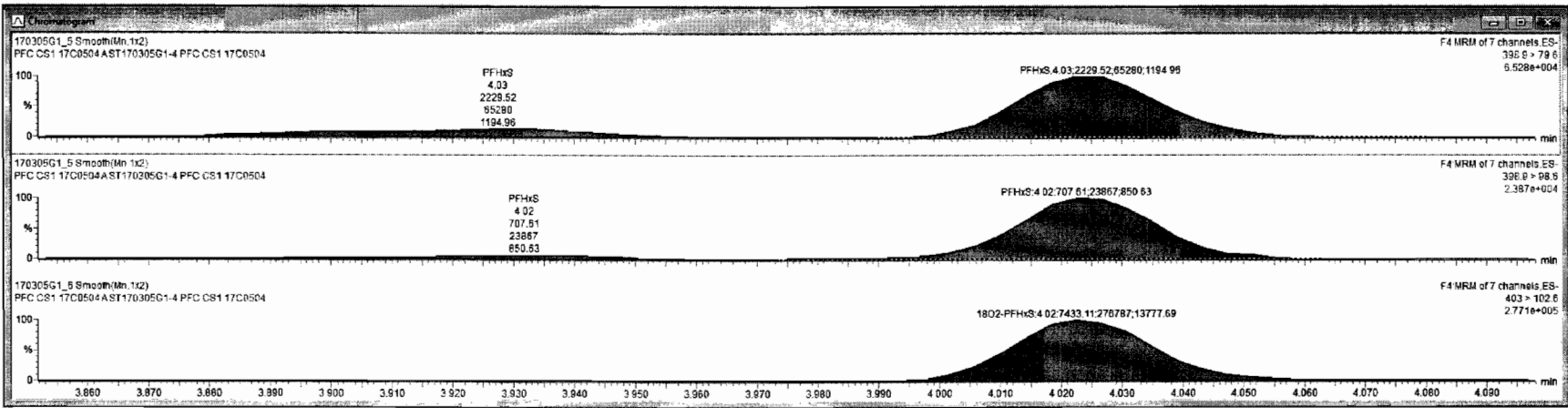


F4:MRM of 7 channels,ES-
403 > 102.6
2.771e+005



170305G1_5 ST:170305G1 4 PFC CS1 17C0504 PFC CS1 17C0504A

Name	Trace	Area	RRF	Wt%	Pres RT	RT	Conc	>MOL	%Rec	DL	
1	PFBS	299 > 79.7	2.7843	1.000	3.93	3.93	1.99	NO	99.3		
2	PFHpA	383 > 318.9	5.6543	1.000	3.91	3.91	2.05	NO	102.2		
3	PFHxS	388.9 > 79.6	2.2343	1.000	4.82	4.82	2.81	NO	100.5		
4	PFOA	413 > 368.7	5.3943	1.000	4.30	4.30	2.06	NO	103.1		
5	PFNA	483 > 418.8	3.1743	1.000	4.63	4.63	2.84	NO	102.0		
6	PFOS	499 > 79.9	5.2842	1.000	4.69	4.69	2.46	YES	123.0	0.1190520	
7	13C3-PFBS	302.0 > 98.6	7.2443	0.410	1.000	3.93	3.93	12.7	NO	101.2	0.0961404
8	13C4-PFHpA	367.2 > 321.8	1.8644	1.10	1.000	3.90	3.91	12.1	NO	96.9	0.0059196
9	18O2-PFHxS	403 > 102.6	7.4343	0.434	1.000	4.02	4.02	12.3	NO	96.2	0.0022555
10	13C2-PFOA	414.9 > 369.7	3.7044	4.61	1.000	4.30	4.30	12.2	NO	97.6	0.0185493
11	13C5-PFNA	468.2 > 422.9	6.9743	0.867	1.000	4.63	4.63	12.3	NO	96.8	0.0011307
12	13C8-PFOS	507.0 > 79.9	5.1843	0.958	1.000	4.69	4.69	12.4	NO	99.1	0.0187137
13	13C5-PFHxS	318-272.9	3.1744	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0082680
14	13C3-PFHxS	401.8 > 79.9	1.7444	1.00	1.000	3.94	4.02	12.5	NO	100.0	0.0001062
15	13C8-PFOA	421.3 > 376	8.2343	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0221408
16	13C9-PFNA	472.2 > 426.9	8.1643	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0009300
17	13C4-PFOS	503.0 > 79.9	5.4543	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0016094
18	Total PFBS	299 > 79.7	2.7843		1.000	3.11			1.99	NO	
19	Total PFHxS	388.9 > 79.6	2.6343		1.000	4.09			2.27	NO	
20	Total PFOA	413 > 368.7	5.4643		1.000	4.39			2.06	NO	
21	Total PFOS	499 > 79.9	6.8842		1.000	4.67			3.37	NO	0.1190520



Ready

170305G1_5

INUM

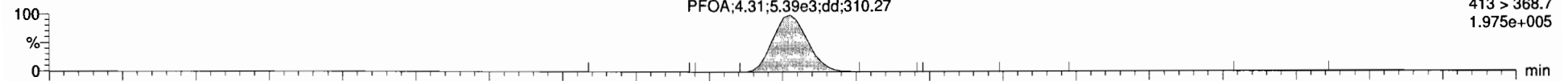
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Last Altered: Monday, March 06, 2017 08:36:20 Pacific Standard Time
Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

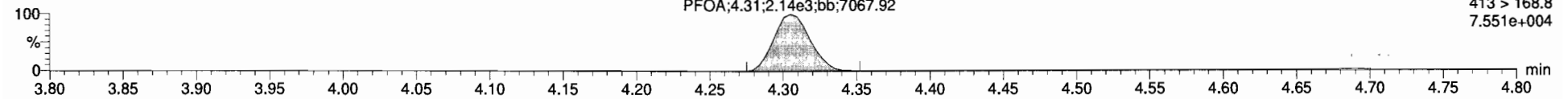
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Total PFOA

170305G1_5

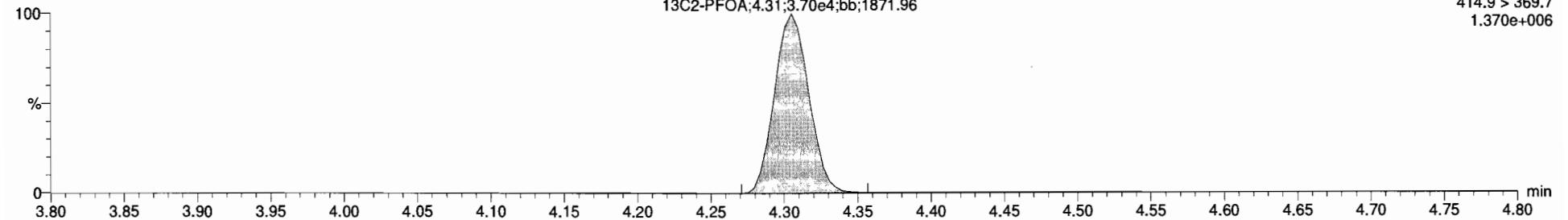


170305G1_5



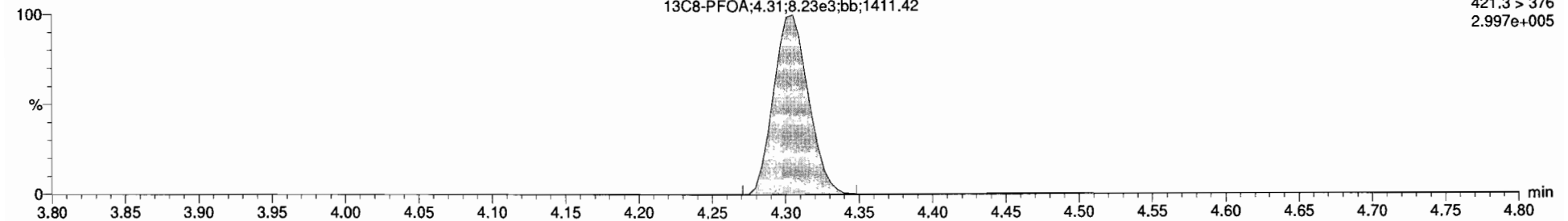
13C2-PFOA

170305G1_5



13C8-PFOA

170305G1_5



Dataset: Untitled

Last Altered: Monday, March 06, 2017 08:36:20 Pacific Standard Time

Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

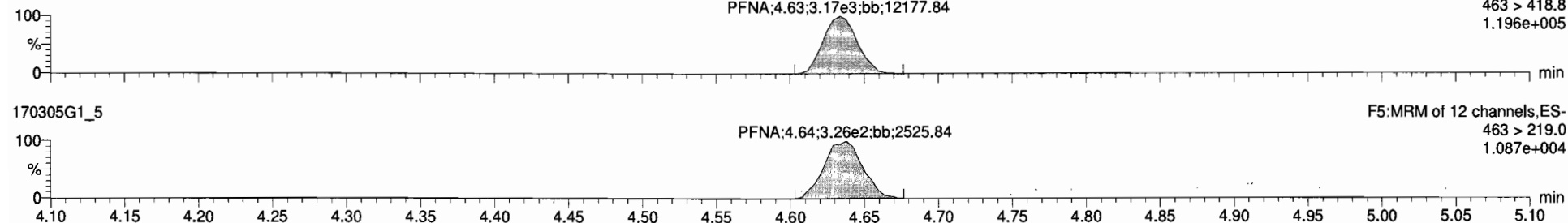
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PFNA

170305G1_5

PFNA;4.63;3.17e3;bb;12177.84

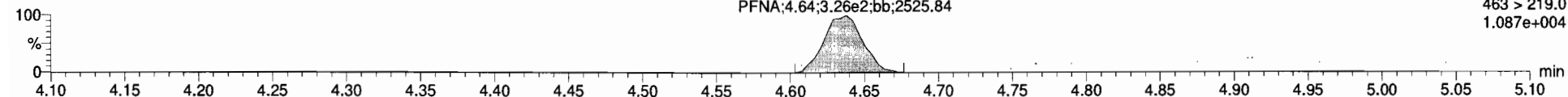
F5:MRM of 12 channels,ES-
463 > 418.8
1.196e+005



170305G1_5

PFNA;4.64;3.26e2;bb;2525.84

F5:MRM of 12 channels,ES-
463 > 219.0
1.087e+004

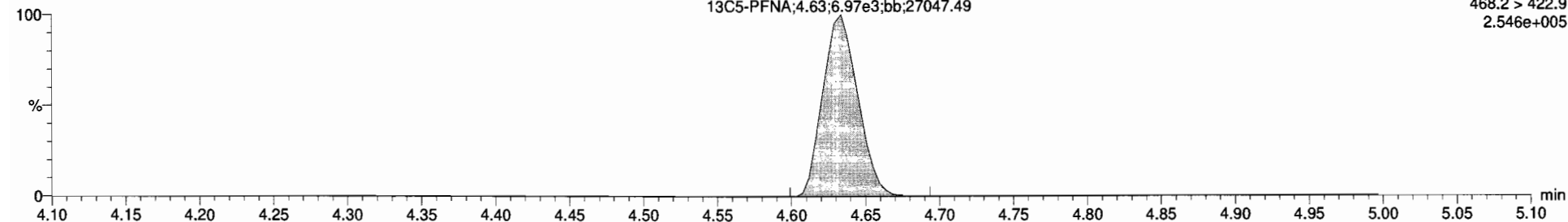


13C5-PFNA

170305G1_5

13C5-PFNA;4.63;6.97e3;bb;27047.49

F5:MRM of 12 channels,ES-
468.2 > 422.9
2.546e+005

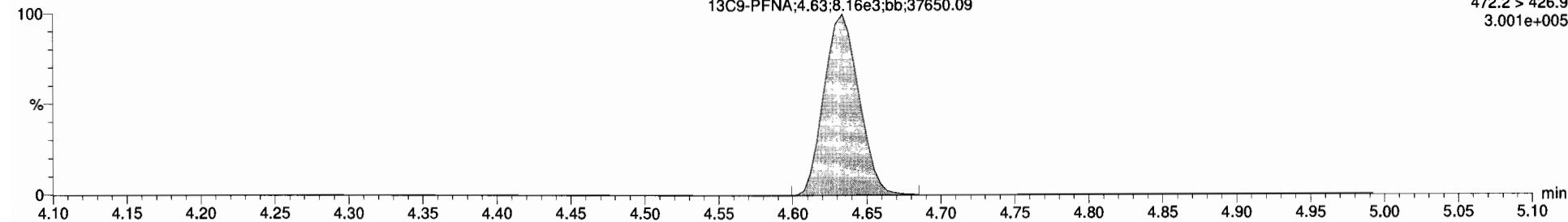


13C9-PFNA

170305G1_5

13C9-PFNA;4.63;8.16e3;bb;37650.09

F5:MRM of 12 channels,ES-
472.2 > 426.9
3.001e+005



Dataset: Untitled

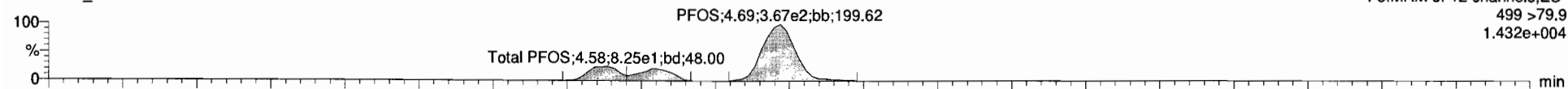
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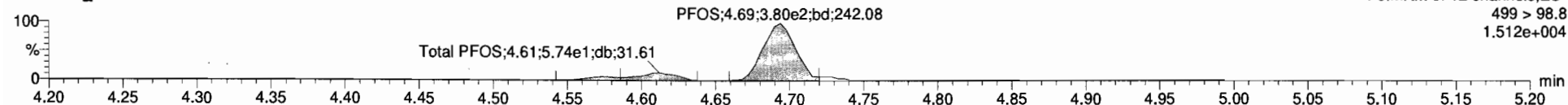
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Total PFOS

170305G1_5

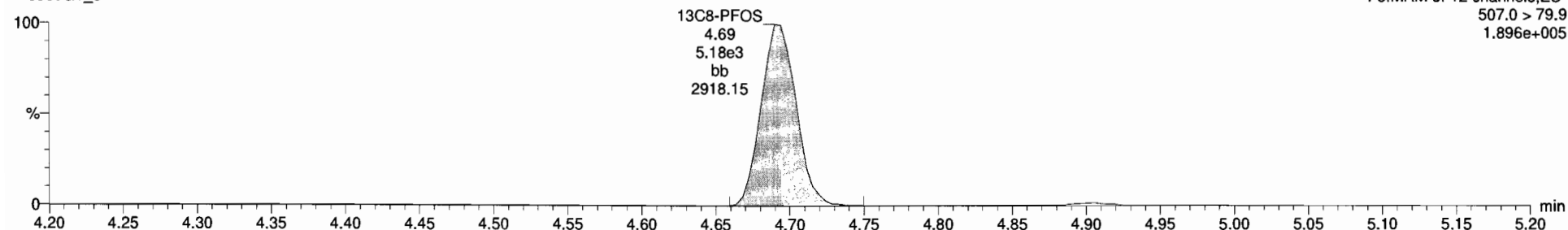


170305G1_5



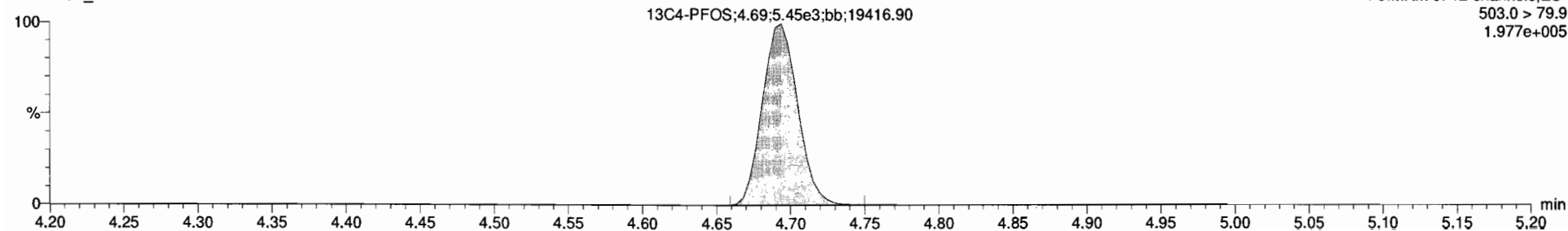
13C8-PFOS

170305G1_5

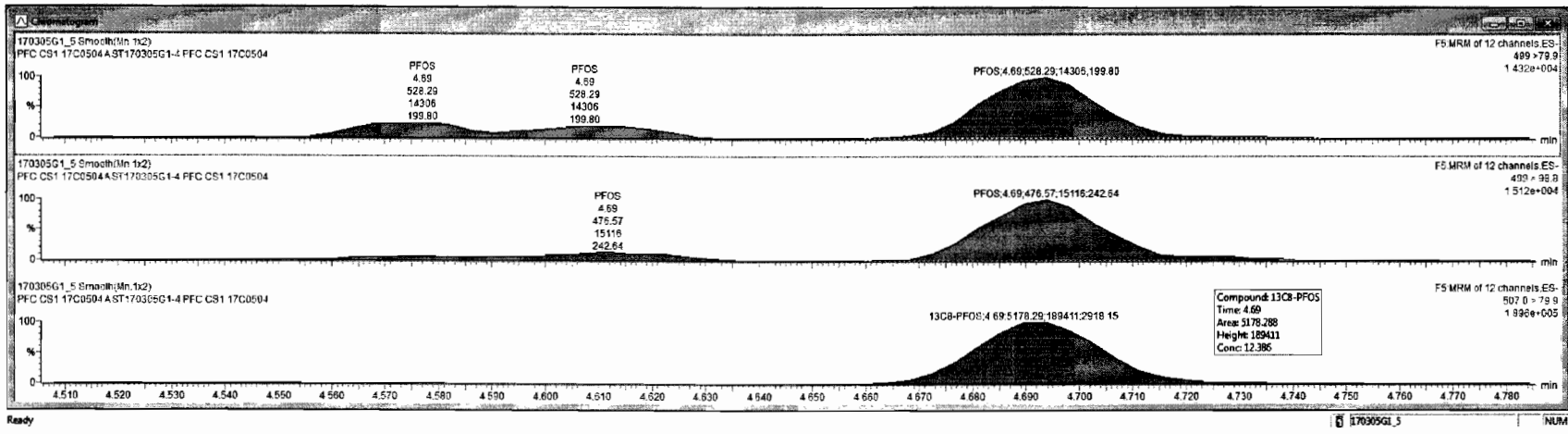


13C4-PFOS

170305G1_5



Name	TrAc	Area	RFI	WtVol	Prod.RT	RT	Conc	>MDL	%Rec	DL
1 PFBS	299 > 79.7	2.78e3		1.000	3.03	3.03	1.99	NO	99.3	
2 PFHpA	383 > 79.6	5.85e3		1.000	3.91	3.91	2.05	NO	162.3	
3 PFHxS	398.9 > 79.6	2.23e3		1.000	4.02	4.02	2.01	NO	190.5	
4 PFOA	413 > 368.7	5.38e3		1.000	4.38	4.38	2.56	NO	193.1	
5 PFNA	463 > 418.8	3.17e3		1.000	4.63	4.63	2.04	NO	192.0	
6 PFOS	499 > 79.9	6.88e3		1.000	4.69	4.69	2.46	YES	122.0	0.1190520
7 13C3-PFBS	302.0 > 98.8	7.24e3	0.410	1.000	3.03	3.03	12.7	NO	101.2	0.0061404
8 13C4-PFHpA	367.2 > 321.8	1.86e4	1.10	1.000	3.90	3.91	12.1	NO	96.9	0.0050186
9 18O2-PFHxS	403 > 102.6	7.43e3	0.434	1.000	4.02	4.02	13.3	NO	98.2	0.0022595
10 13C2-PFOA	414.9 > 369.7	3.70e4	4.61	1.000	4.38	4.38	12.2	NO	97.6	0.0165493
11 13C5-PFNA	466.2 > 422.9	6.97e3	0.667	1.000	4.63	4.63	12.3	NO	98.6	0.0011387
12 13C6-PFOS	507.0 > 79.9	5.18e3	0.958	1.000	4.69	4.69	12.4	NO	99.1	0.0107137
13 13C5-PFHxA	310 > 272.9	3.17e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0062680
14 13C3-PFHxS	401.9 > 79.9	1.74e4	1.00	1.000	3.54	4.02	12.5	NO	100.0	0.0001082
15 13C8-PFOA	421.3 > 378	8.23e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0221406
16 13C8-PFNA	472.2 > 426.9	8.18e3	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0005300
17 13C4-PFOS	503.0 > 79.9	5.45e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0016094
18 Total PFBS	299 > 79.7	2.78e3		1.000	3.11		1.99	NO		
19 Total PFHxS	398.9 > 79.6	2.63e3		1.000	4.09		2.27	NO		
20 Total PFOA	413 > 368.7	5.48e3		1.000	4.39		2.06	NO		
21 Total PFOS	499 > 79.9	6.88e3		1.000	4.67		3.37	NO		0.1190520



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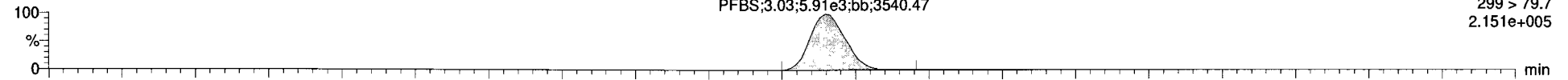
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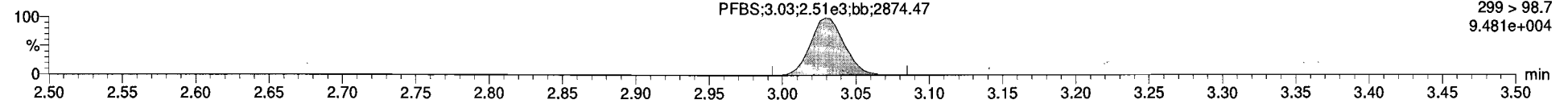
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PFBS

170305G1_6

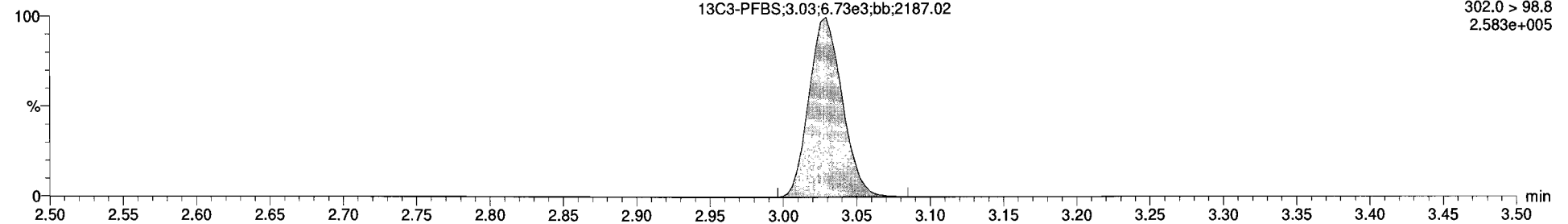


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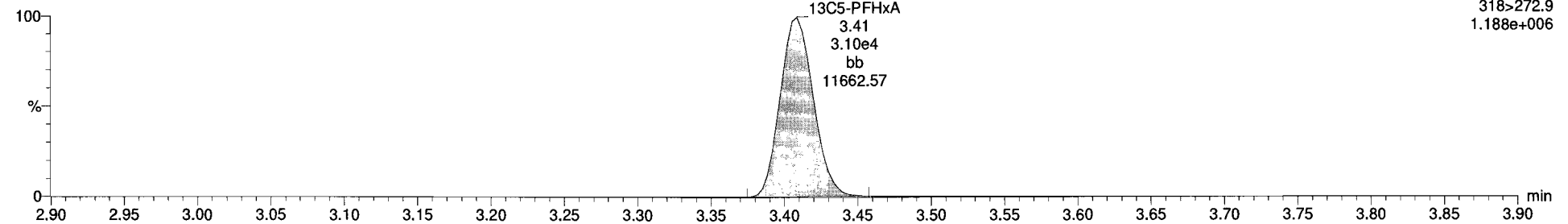
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170305G1_6



13C5-PFHxA

170305G1_6



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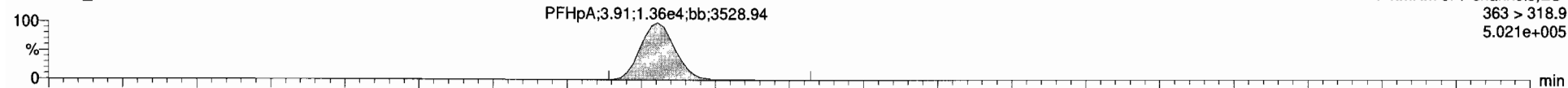
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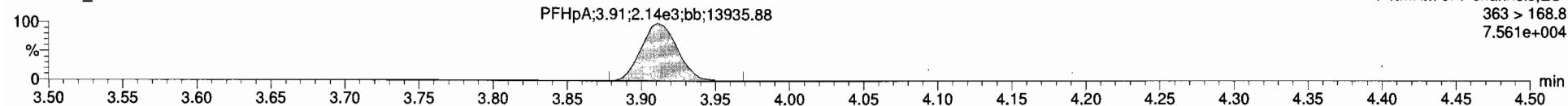
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PFHpA

170305G1_6

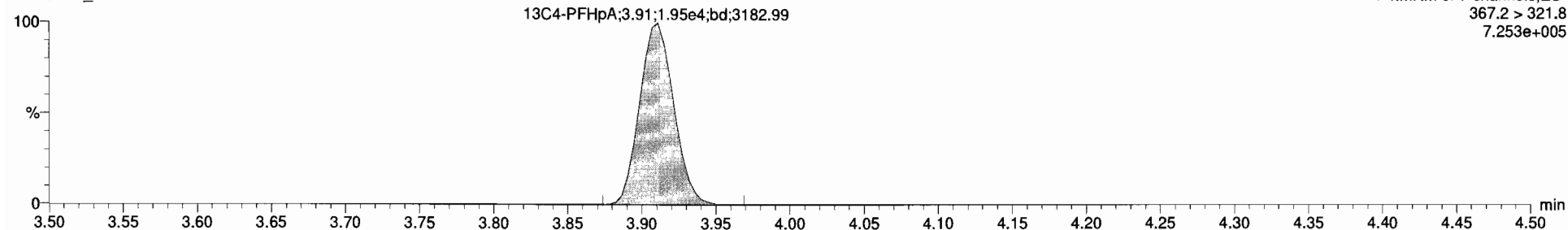


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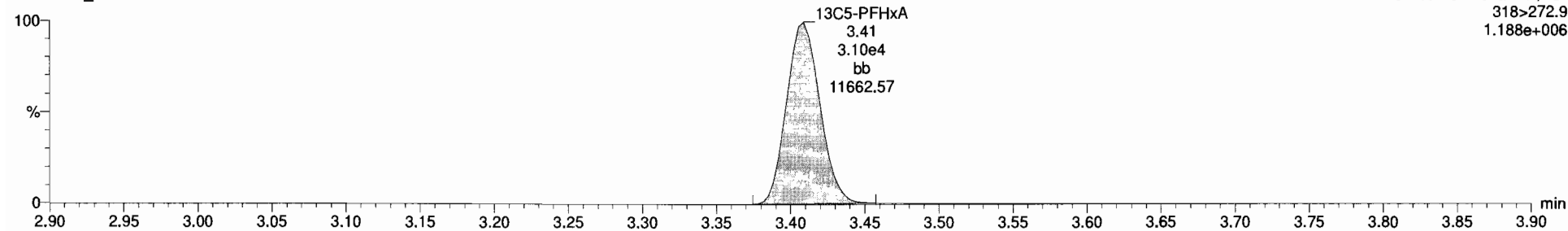
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13C5-PFHxA

170305G1_6



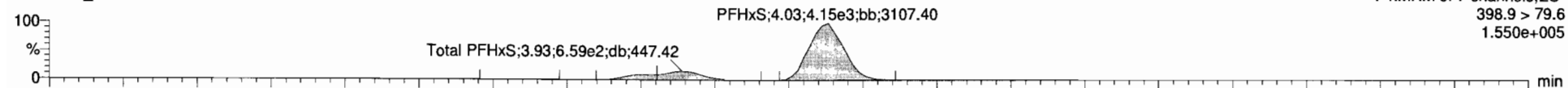
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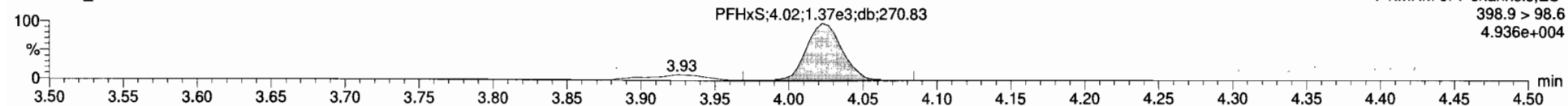
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Total PFHxS

170305G1_6

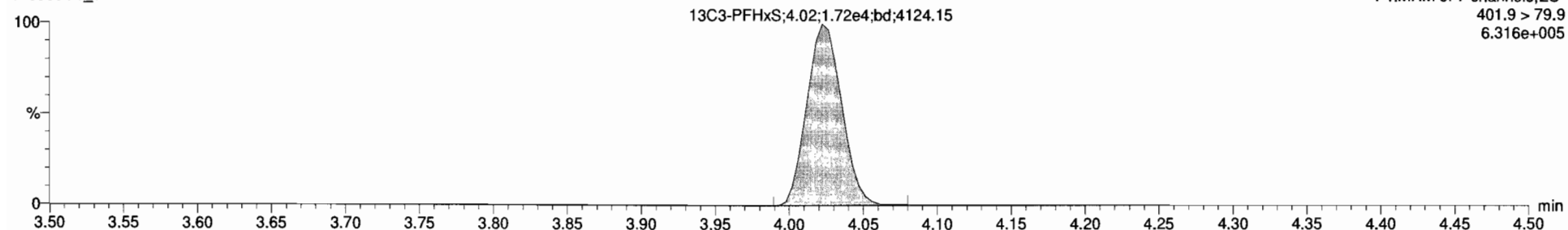


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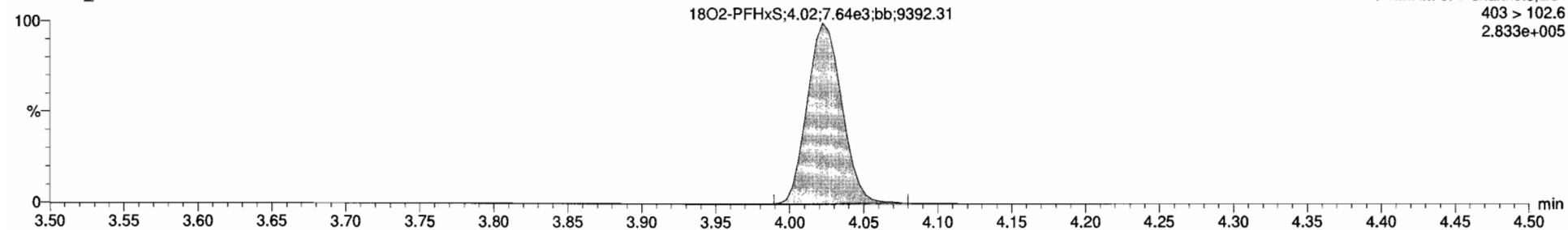
13C3-PFHxS

170305G1_6



18O2-PFHxS

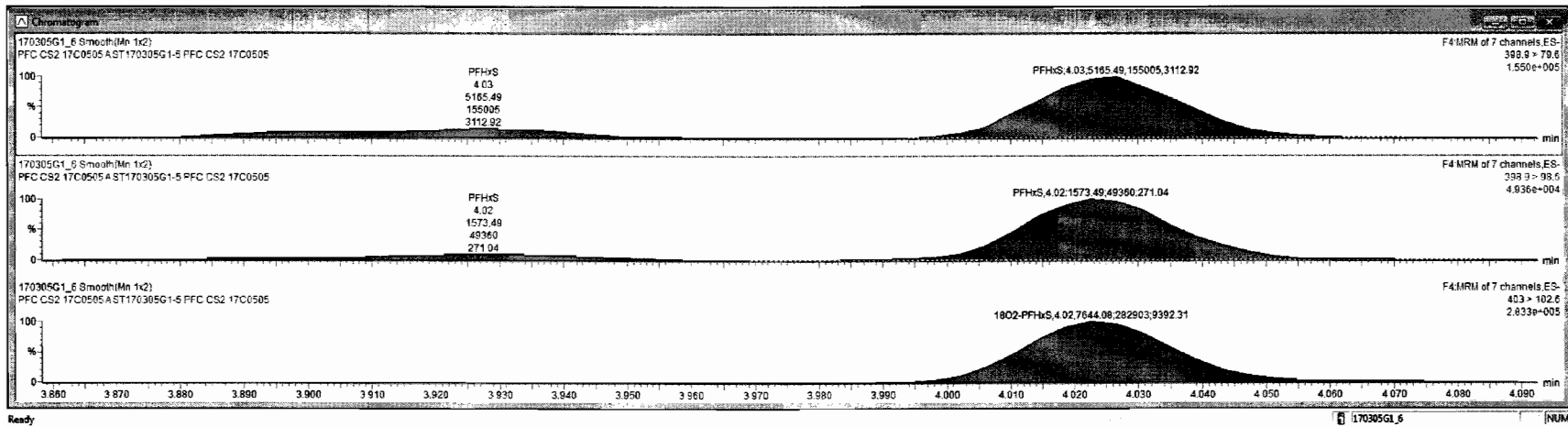
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170305G1_6 - ST170305G1-5-PFC CS2 17C0505 - PFC CS2 17C0505 A

#	Name	Trace	Area	RRF	WtV%	Pred RT	RT	Conc	>NDL	%Rec	DL
1	PFBS	299 > 79.7	5.91e3		1.000	3.03	3.03	4.58	NO	91.6	
2	PFHpA	363 > 318.9	1.36e4		1.000	3.91	3.91	4.78	NO	95.6	
3	PFHxS	398.8 > 79.8	5.17e3		1.000	4.02	4.03	4.80	YES	92.0	
4	PFOA	413 > 368.7	1.24e4		1.000	4.30	4.30	5.43	YES	108.5	
5	PFNA	463 > 418.8	7.77e3		1.000	4.63	4.63	4.71	YES	94.2	
6	PFOS	499 > 79.9	1.22e3		1.000	4.70	4.69	5.14	YES	102.8	0.0999192
7	13C3-PFBS	302.0 > 98.8	6.73e3	0.410	1.000	3.03	3.03	11.9	NO	95.3	0.0142443
8	13C4-PFHpA	367.2 > 321.9	1.95e4	1.10	1.000	3.90	3.91	12.9	NO	103.0	0.0102764
9	18O2-PFHxS	403 > 102.6	7.64e3	0.424	1.000	4.02	4.02	12.8	NO	102.2	0.0034349
10	13C2-PFOA	414.9 > 369.7	3.46e4	4.61	1.000	4.30	4.30	11.9	NO	95.4	0.0046755
11	13C5-PFNA	468.2 > 422.9	7.48e3	0.867	1.000	4.63	4.63	12.5	NO	100.0	0.0007409
12	13C8-PFOS	507.0 > 79.9	5.64e3	0.958	1.000	4.69	4.69	11.7	NO	93.2	0.0435914
13	13C5-PFHxS	318 > 272.9	3.10e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0026795
14	13C3-PFHxS	401.9 > 79.9	1.72e4	1.00	1.000	3.94	4.02	12.5	NO	100.0	0.0075773
15	13C5-PFOA	421.3 > 376	7.89e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0007868
16	13C5-PFNA	472.2 > 426.9	8.62e3	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0006215
17	13C4-PFOS	505.0 > 79.9	8.31e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0165574
18	Total PFBS	299 > 79.7	5.91e3		1.000	3.11		4.58	NO		
19	Total PFHxS	398.8 > 79.8	6.15e3		1.000	4.09		5.37	NO		
20	Total PFOA	413 > 368.7	1.25e4		1.000	4.39		5.43	NO		
21	Total PFOS	499 > 79.9	1.67e3		1.000	4.67		7.17	NO		0.0999192



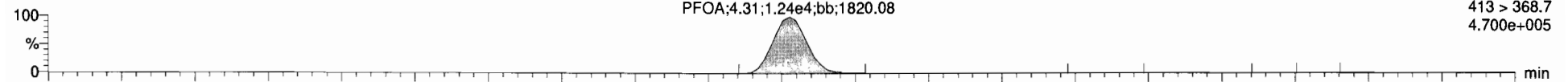
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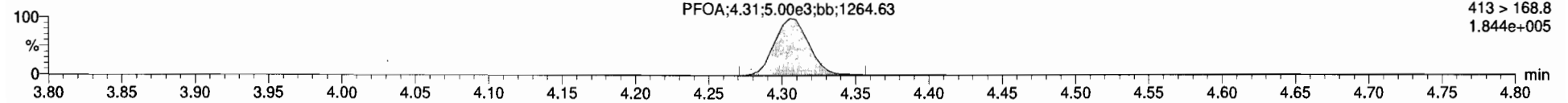
Total PFOA

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F5:MRM of 12 channels,ES-
413 > 368.7
4.700e+005

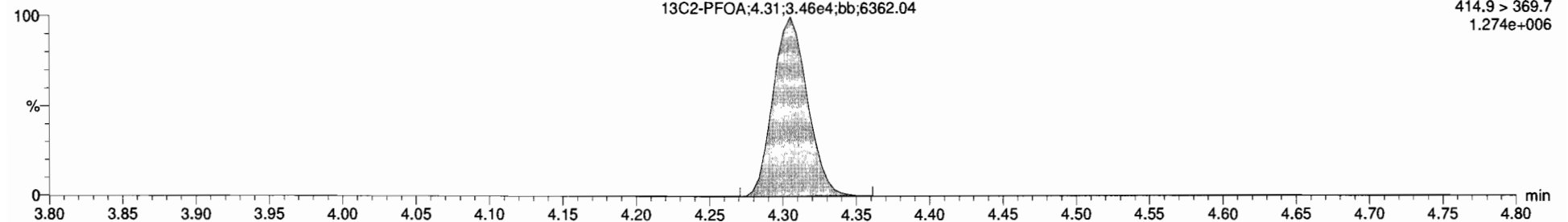
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F5:MRM of 12 channels,ES-
413 > 168.8
1.844e+005

13C2-PFOA

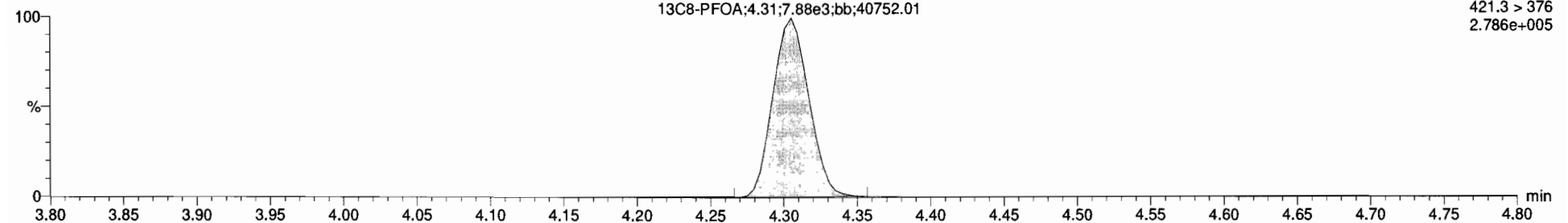
170305G1_6



F5:MRM of 12 channels,ES-
414.9 > 369.7
1.274e+006

13C8-PFOA

170305G1_6



F5:MRM of 12 channels,ES-
421.3 > 376
2.786e+005

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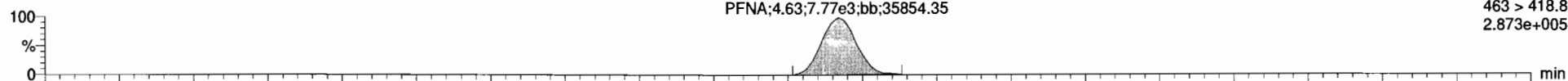
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PFNA

170305G1_6

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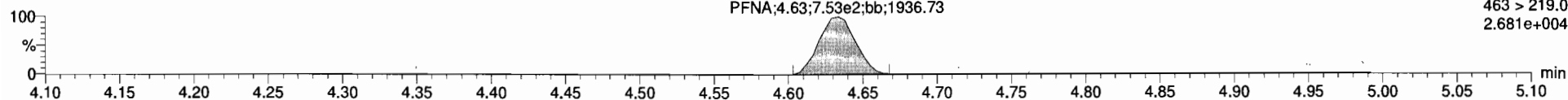
F5:MRM of 12 channels,ES-
463 > 418.8
2.873e+005



170305G1_6

PFNA;4.63;7.53e2;bb;1936.73

F5:MRM of 12 channels,ES-
463 > 219.0
2.681e+004

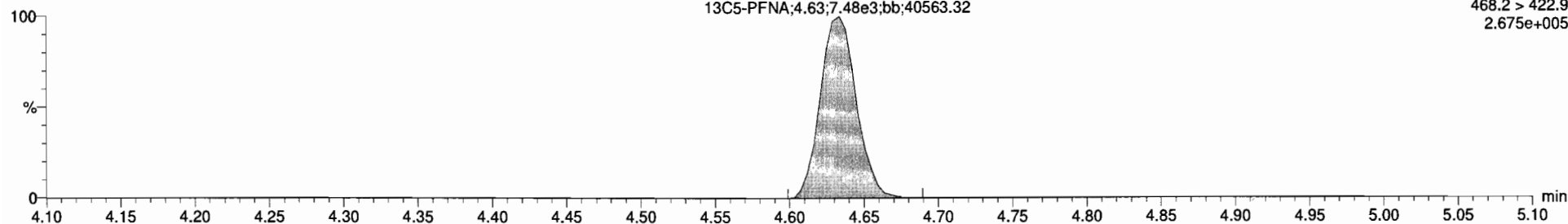


13C5-PFNA

170305G1_6

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F5:MRM of 12 channels,ES-
468.2 > 422.9
2.675e+005

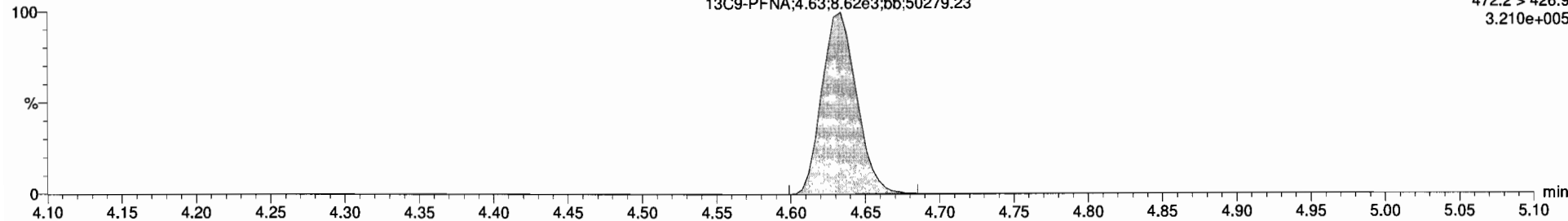


13C9-PFNA

170305G1_6

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F5:MRM of 12 channels,ES-
472.2 > 426.9
3.210e+005



Dataset: Untitled

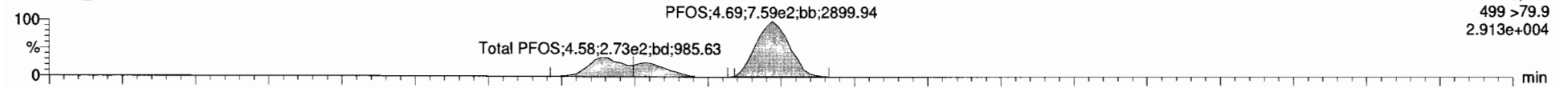
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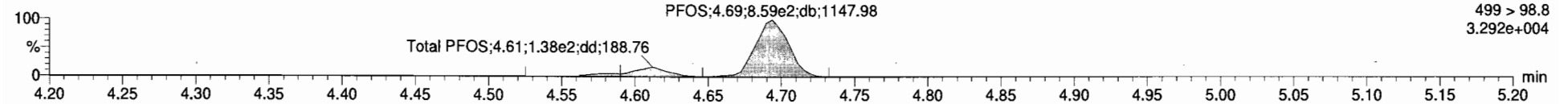
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Total PFOS

170305G1_6

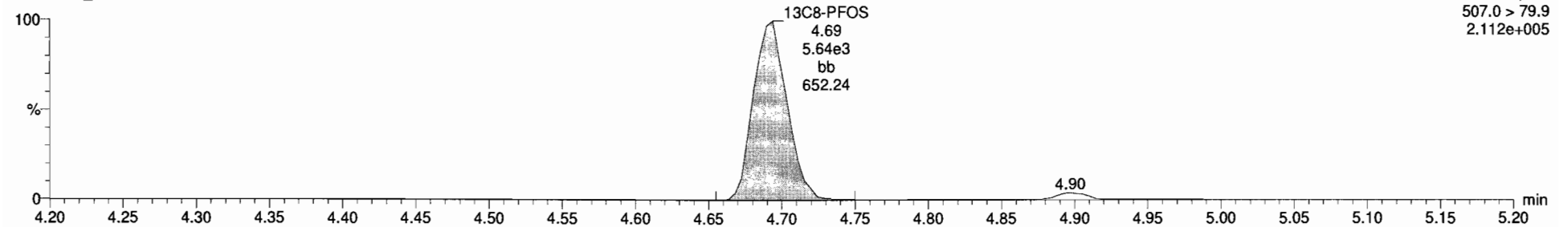


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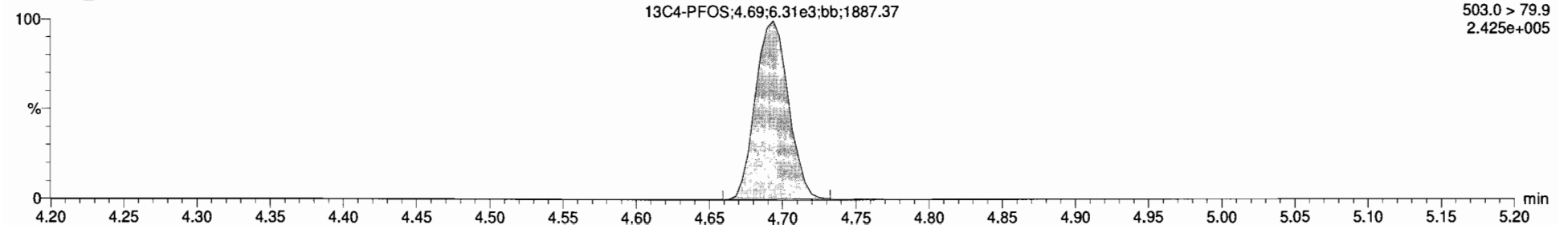
13C8-PFOS

170305G1_6



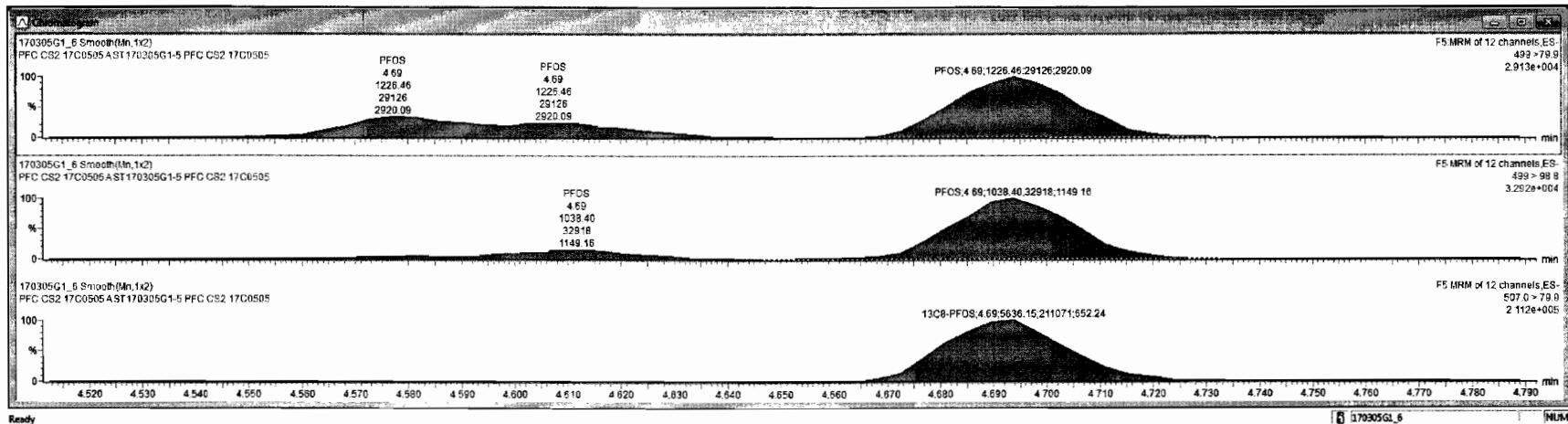
13C4-PFOS

170305G1_6



170305G1_6 ST170305G1-5 PFC CS2 17C0505 PFC CS2 17C0505A

Name	Trace	Area	RRF	WVWL	Pred RT	RT	Cone	SMDL	%Rel	DL	
1	PFBS	299 > 79.7	5.91e3	1.000	3.83	3.03	4.58	NO	91.6		
2	PFHpA	363 > 318.9	1.36e4	1.000	3.91	3.91	4.78	NO	95.6		
3	PFHxS	398.9 > 79.8	5.17e3	1.000	4.62	4.03	4.60	YES	92.0		
4	PFOA	413 > 368.7	1.24e4	1.000	4.30	4.30	5.43	YES	108.5		
5	PFNA	463 > 418.8	7.77e3	1.000	4.63	4.63	4.71	YES	94.2		
6	PFOS	499 > 79.9	1.23e3	1.000	4.79	4.69	5.14	YES	102.8	0.0999192	
7	13C3-PFBS	302.0 > 98.8	6.73e3	0.410	1.000	3.83	3.03	11.9	NO	95.3	0.0142443
8	13C4-PFHpA	367.2 > 321.8	1.95e4	1.10	1.000	3.90	3.91	12.9	NO	103.0	0.0102764
9	16O2-PFHxS	403 > 102.6	7.64e3	0.434	1.000	4.62	4.02	12.8	NO	102.2	0.0034349
10	13C2-PFOA	414.9 > 369.7	3.46e4	4.61	1.000	4.30	4.30	11.9	NO	95.4	0.0048755
11	13C5-PFNA	468.2 > 422.9	7.48e3	0.867	1.000	4.63	4.63	12.5	NO	100.0	0.0007409
12	13C8-PFOS	507.0 > 79.9	5.64e3	0.958	1.000	4.69	4.69	11.7	NO	93.2	0.0435914
13	13C5-PFHxS	318 > 272.9	3.10e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0026795
14	13C3-PFHxS	401.9 > 79.9	1.72e4	1.00	1.000	3.94	4.02	12.5	NO	100.0	0.0075773
15	13C8-PFOA	421.3 > 376	7.88e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0007688
16	13C9-PFNA	472.2 > 426.9	8.62e3	1.00	1.000	4.58	4.63	12.5	NO	100.0	0.0008215
17	13C4-PFOS	503.0 > 79.9	6.31e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0165574
18	Total PFBS	299 > 79.7	5.91e3	1.000	3.11		4.58	NO			
19	Total PFHxS	398.9 > 79.8	6.15e3	1.000	4.69		5.37	NO			
20	Total PFOA	413 > 368.7	1.25e4	1.000	4.39		5.43	NO			
21	Total PFOS	499 > 79.9	1.67e3	1.000	4.67		7.17	NO			0.0999192



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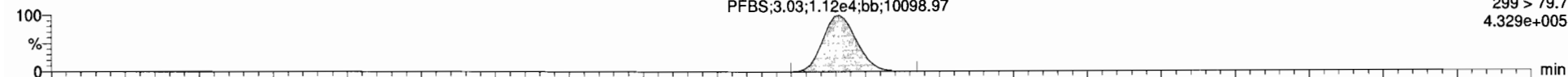
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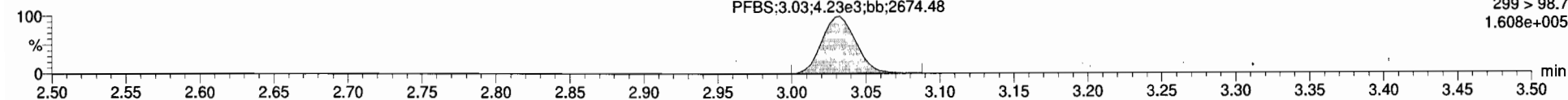
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PFBS

170305G1_7

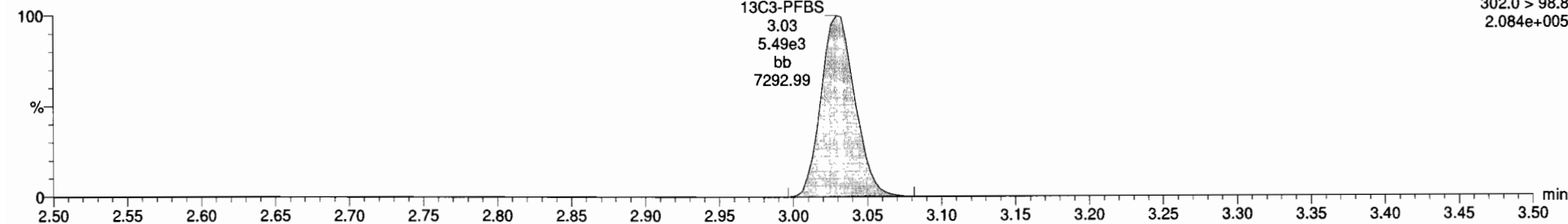


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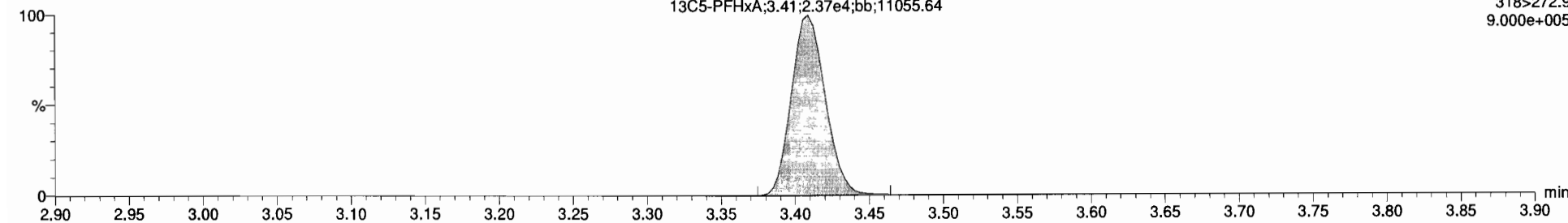
13C3-PFBS

170305G1_7



13C5-PFHxA

170305G1_7



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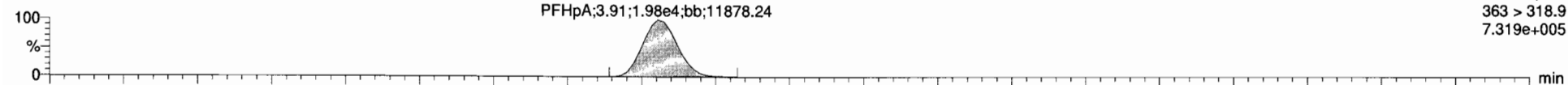
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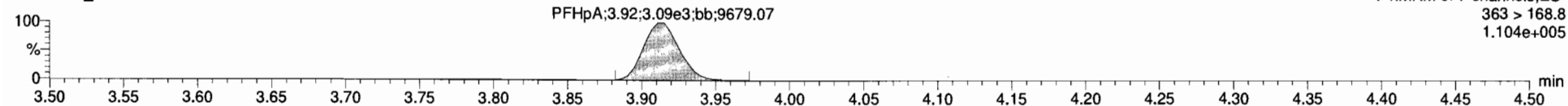
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PFHpA

170305G1_7

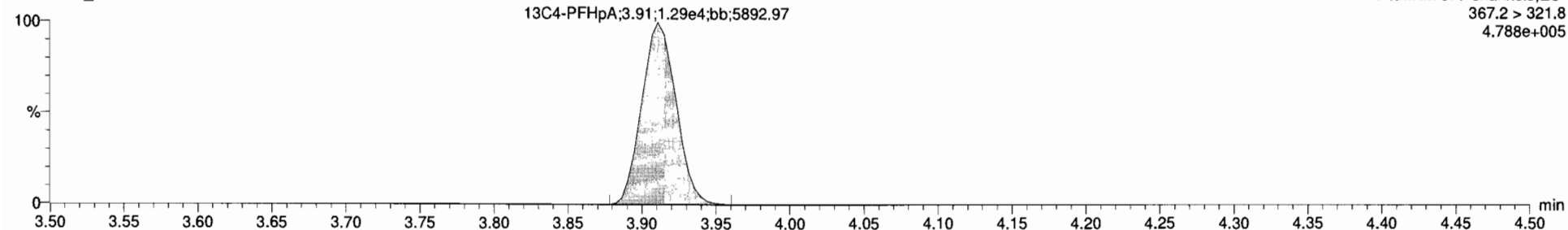


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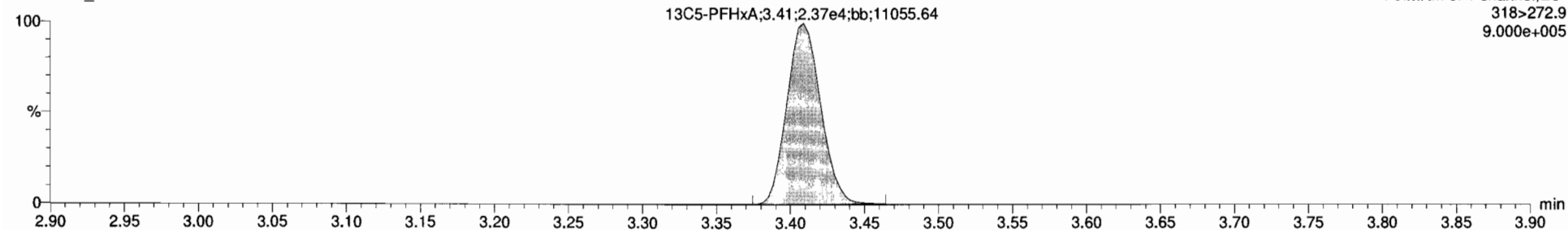
13C4-PFHpA

170305G1_7



13C5-PFHxA

170305G1_7



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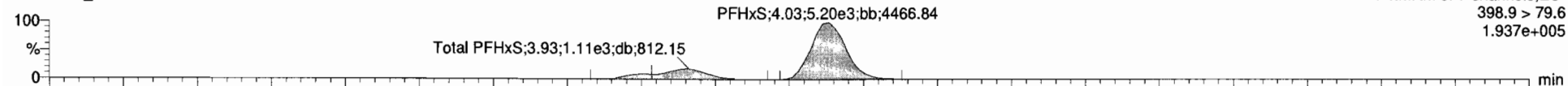
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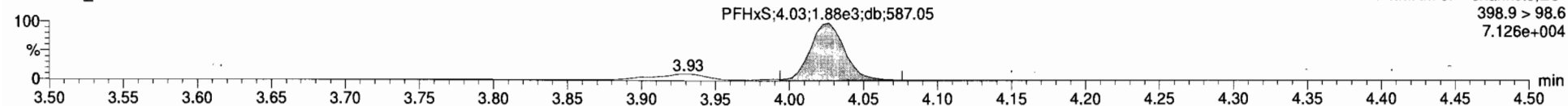
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Total PFHxS

170305G1_7

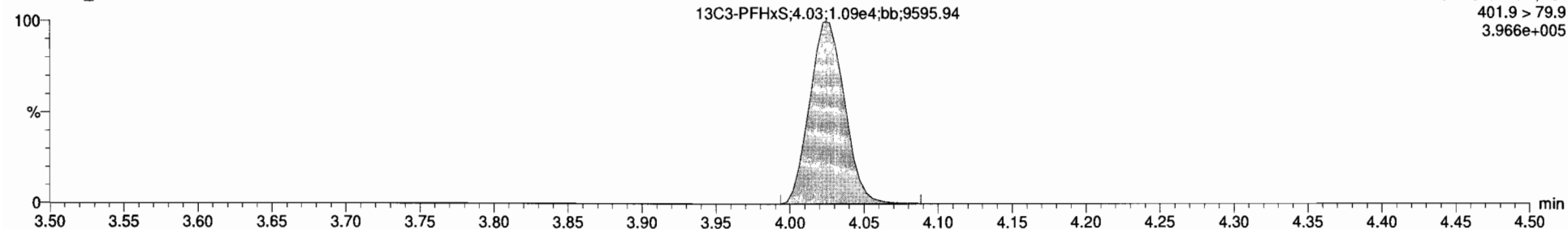


170305G1_7



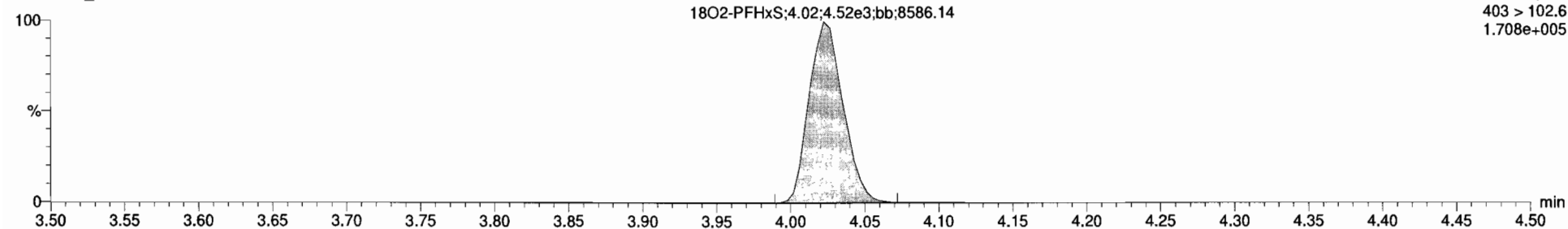
13C3-PFHxS

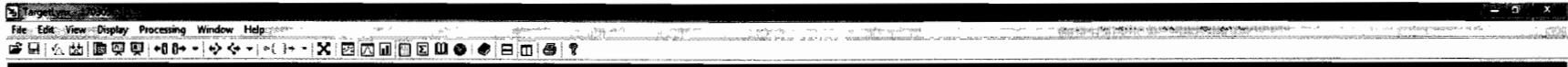
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18O2-PFHxS

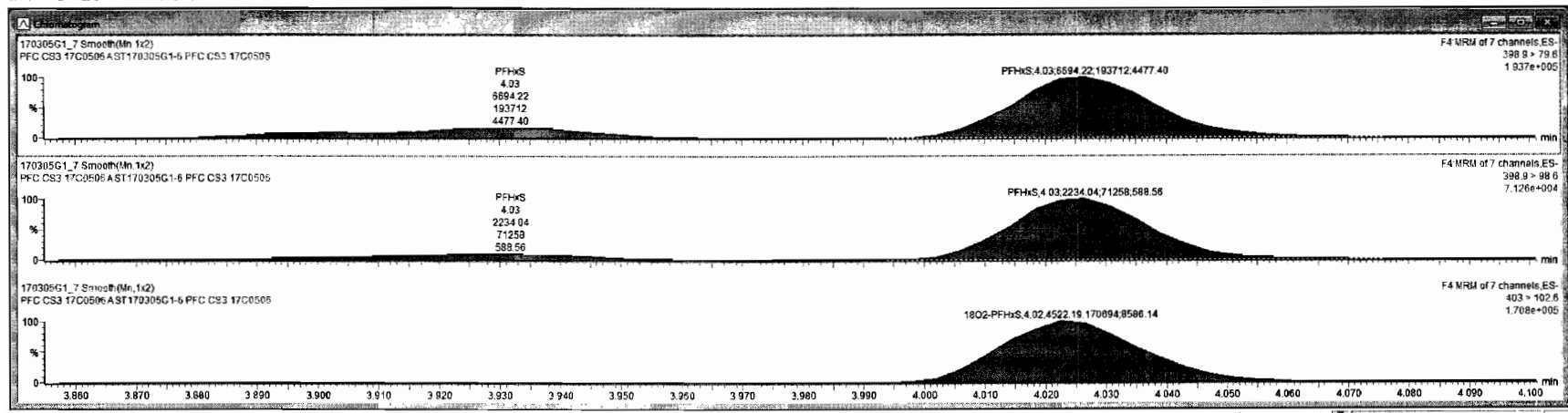
170305G1_7





170305G1_7 ST170305G1-6 PFC CS3 17C0506 PFC CS3 17C0506 A

Name	Trace	Area	RPV	Wt%	Pred RT	RT	Case	>MUL	%Rec	DL
1	PFBS	299 > 79.7	1.12e4		1.000	3.03	3.03	10.7	YES	107.2
2	PFHpA	363 > 316.9	1.96e4		1.000	3.91	3.91	10.6	YES	106.4
3	PFHxS	388 > 79.6	6.69e3		1.000	4.02	4.03	10.1	YES	101.5
4	PFOA	413 > 368.7	1.56e4		1.000	4.30	4.30	11.0	YES	109.8
5	PFNA	463 > 418.8	7.05e3		1.000	4.63	4.63	11.1	YES	111.4
6	PFOS	499 > 79.9	6.60e2		1.000	4.70	4.69	10.7	YES	107.1
7	13C3-PFBS	302.0 > 98.8	5.48e3	0.410	1.000	3.03	3.03	15.4	NO	123.0
8	13C3-PFHpA	367.2 > 321.8	1.29e4	1.10	1.000	3.90	3.91	13.4	NO	107.6
9	18O2-PFHxS	403 > 102.6	4.52e3	0.434	1.000	4.03	4.02	12.0	NO	95.6
10	13C3-PFOA	414.9 > 369.7	2.16e4	4.61	1.000	4.30	4.30	13.9	NO	111.6
11	13C3-PFNA	468.2 > 422.9	2.89e3	0.967	1.000	4.63	4.63	11.7	NO	94.0
12	13C3-PFOS	507.0 > 79.9	1.69e3	0.958	1.000	4.69	4.69	14.1	NO	112.8
13	13C3-PFHxA	318 > 272.9	2.37e4	1.00	1.000	3.29	3.41	12.5	NO	100.0
14	13C3-PFHxS	401.9 > 79.3	1.09e4	1.00	1.000	3.94	4.03	12.5	NO	100.0
15	13C3-PFOA	421.3 > 376	4.25e3	1.00	1.000	4.22	4.30	12.5	NO	100.0
16	13C3-PFNA	472.2 > 426.9	3.54e3	1.00	1.000	4.56	4.63	12.5	NO	100.0
17	13C3-PFOS	503.0 > 79.9	1.74e3	1.00	1.000	4.67	4.69	12.5	NO	100.0
18	Total PFBS	299 > 79.7	1.12e4		1.000	3.11		10.7	NO	
19	Total PFHxS	388 > 79.6	8.14e3		1.000	4.09		12.2	NO	
20	Total PFOA	413 > 368.7	1.57e4		1.000	4.39		11.0	NO	
21	Total PFOS	499 > 79.9	1.01e3		1.000	4.67		12.8	NO	0.1341527



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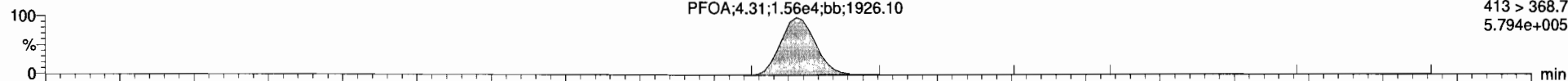
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Total PFOA

170305G1_7

PFOA;4.31;1.56e4;bb:1926.10

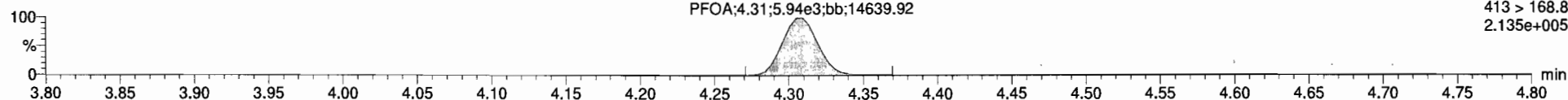
F5:MRM of 12 channels,ES-
413 > 368.7
5.794e+005



170305G1_7

PFOA;4.31;5.94e3;bb:14639.92

F5:MRM of 12 channels,ES-
413 > 168.8
2.135e+005

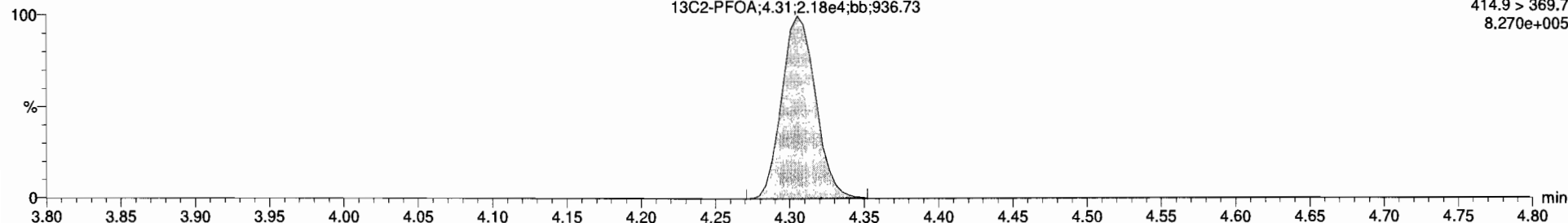


13C2-PFOA

170305G1_7

13C2-PFOA;4.31;2.18e4;bb:936.73

F5:MRM of 12 channels,ES-
414.9 > 369.7
8.270e+005

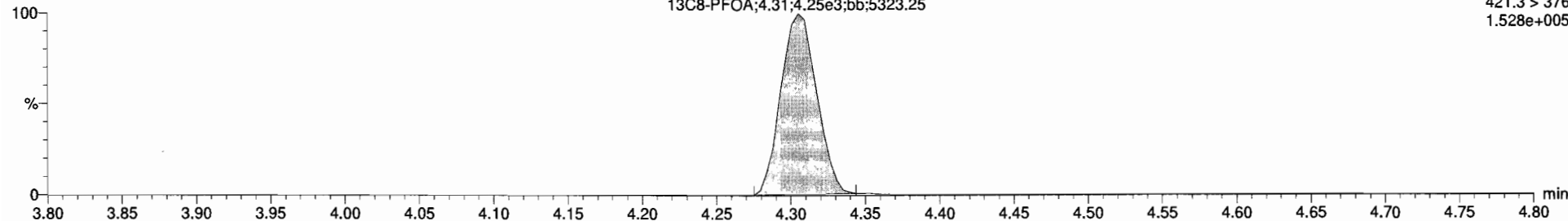


13C8-PFOA

170305G1_7

13C8-PFOA;4.31;4.25e3;bb:5323.25

F5:MRM of 12 channels,ES-
421.3 > 376
1.528e+005



Dataset: Untitled

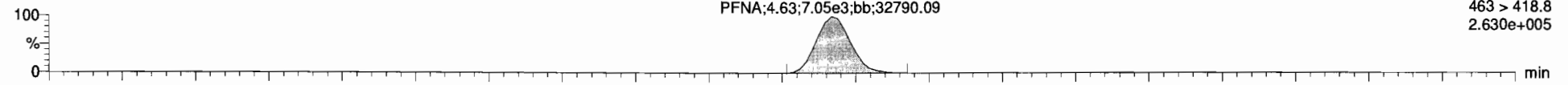
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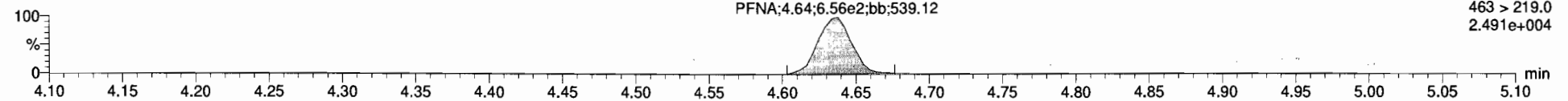
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PFNA

170305G1_7

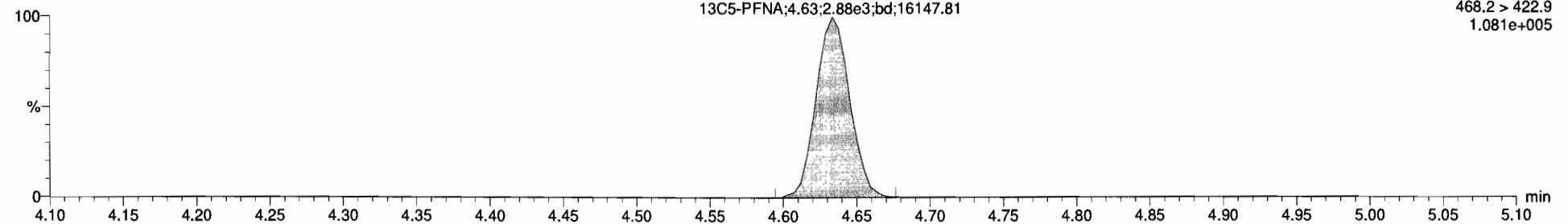


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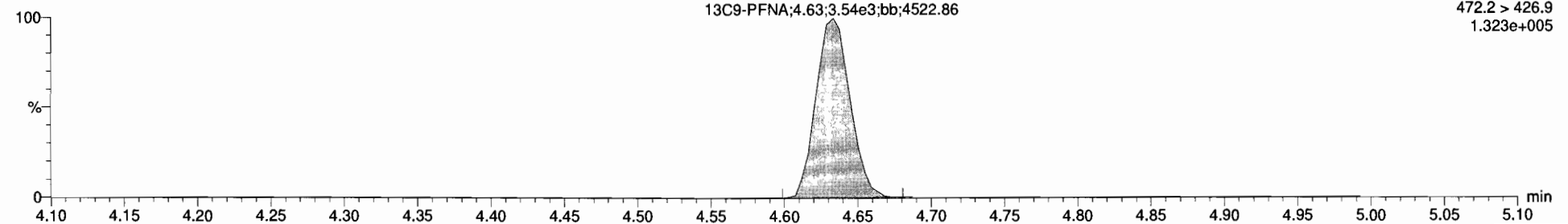
13C5-PFNA

170305G1_7



13C9-PFNA

170305G1_7



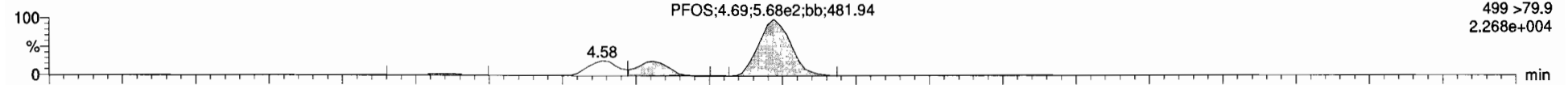
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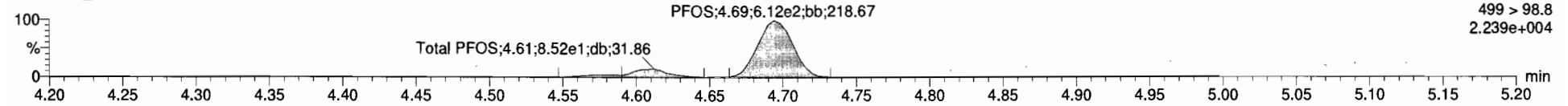
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Total PFOS

170305G1_7

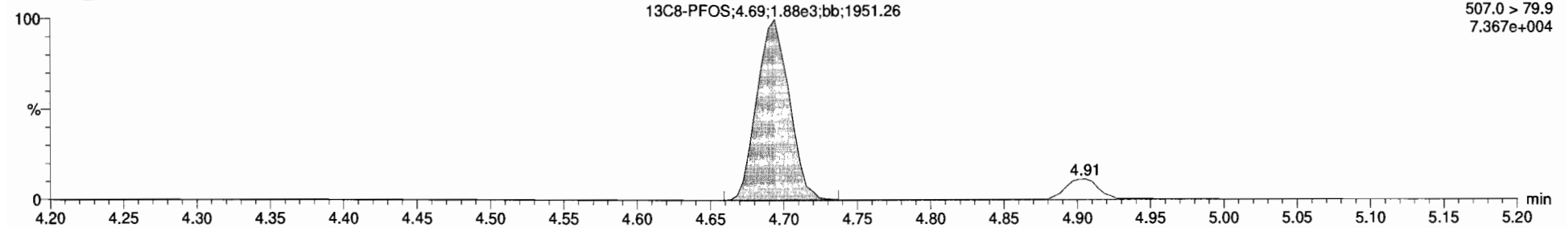


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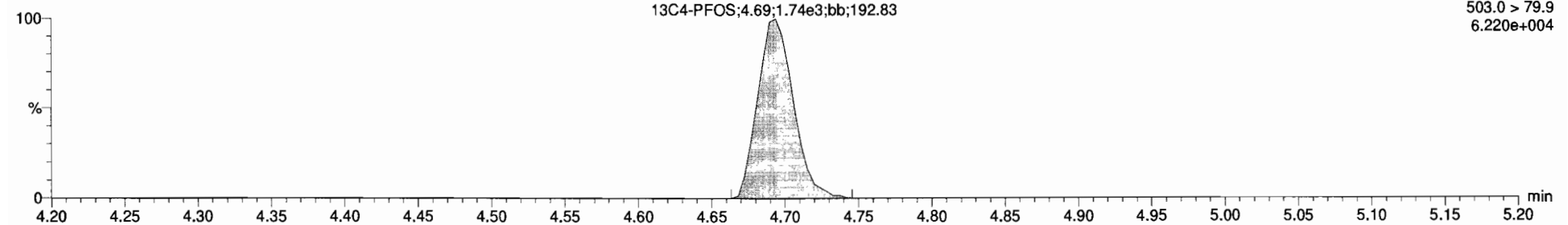
13C8-PFOS

170305G1_7



13C4-PFOS

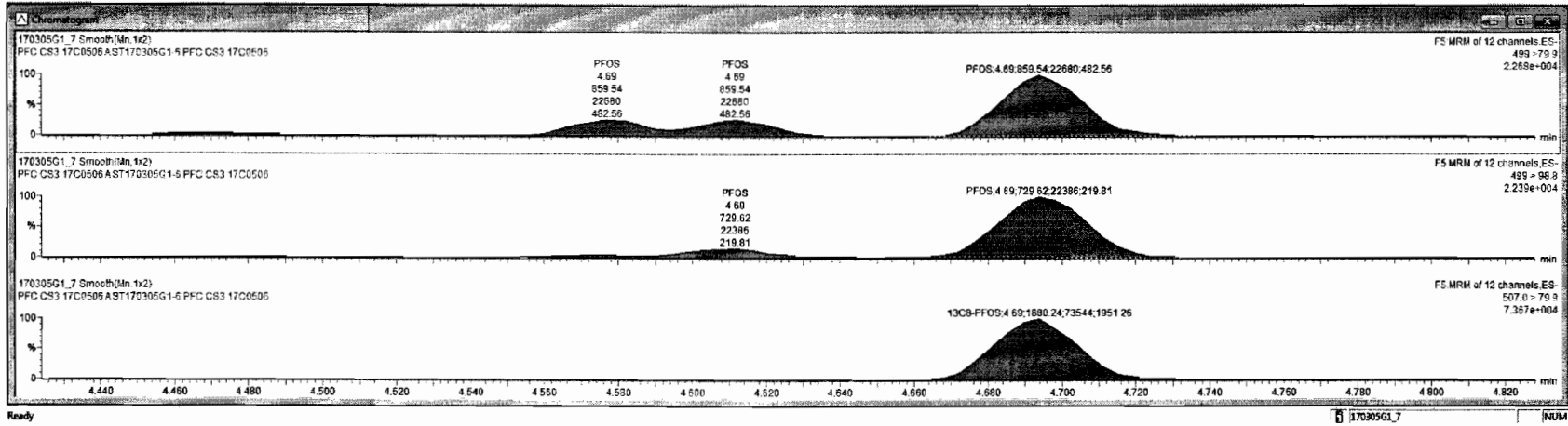
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170305G1_7 - ST170305G1-6 PFC CS3 17C0506 - PFC CS3 17C0506 A

Name	Trace	Area	RRF	WtVal	Prod RT	RT	Conc.	IDL	%Rec	DL
1	PFBS	299 > 79.7	1.12e4	1.000	3.03	3.03	10.7	YES	107.2	0.0000000
2	PFHpA	363 > 318.9	1.96e4	1.000	3.91	3.91	10.6	YES	106.4	0.0000000
3	PFHxS	398.9 > 79.6	8.69e3	1.000	4.02	4.03	10.1	YES	101.5	0.0000000
4	PFOA	413 > 368.7	1.56e4	1.000	4.30	4.30	11.0	YES	109.8	0.0000000
5	PFNA	463 > 418.8	7.05e3	1.000	4.63	4.63	11.1	YES	111.4	0.0000000
6	PFOS	499 > 79.9	8.60e3	1.000	4.69	4.69	10.9	YES	108.8	0.1024216
7	13C3-PFBS	302.0 > 98.8	5.49e3	0.410	1.000	3.03	3.03	NO	123.0	0.0054942
8	13C4-PFHpA	367.2 > 321.8	1.29e4	1.10	1.000	3.90	3.91	NO	107.8	0.0058321
9	18O2-PFHxS	403 > 102.6	4.52e3	0.434	1.000	4.03	4.02	NO	95.5	0.0036126
10	13C2-PFOA	414.8 > 369.7	2.18e4	4.61	1.000	4.30	4.30	NO	111.6	0.032472
11	13C3-PFNA	468.2 > 422.9	2.86e3	0.867	1.000	4.63	4.63	NO	94.0	0.0018267
12	13C8-PFOS	507.0 > 79.9	1.86e3	0.958	1.000	4.69	4.69	NO	112.8	0.0197667
13	13C3-PFHxS	318 > 272.9	2.37e4	1.00	1.000	3.29	3.41	NO	100.0	0.0028266
14	13C3-PFHxS	461.9 > 79.9	1.09e4	1.00	1.000	3.84	4.03	NO	100.0	0.0032568
15	13C8-PFOA	421.3 > 376	4.25e3	1.00	1.000	4.22	4.30	NO	100.0	0.0058706
16	13C9-PFNA	472.2 > 426.9	3.54e3	1.00	1.000	4.56	4.63	NO	100.0	0.0059093
17	13C4-PFOS	503.0 > 79.9	1.74e3	1.00	1.000	4.67	4.69	NO	100.0	0.1620576
18	Total PFBS	299 > 79.7	1.12e4		1.000	3.11		NO		
19	Total PFHxS	398.9 > 79.6	8.14e3		1.000	4.09		NO		
20	Total PFOA	413 > 368.7	1.57e4		1.000	4.39		NO		
21	Total PFOS	499 > 79.9	1.01e3		1.000	4.67		NO		0.1024216



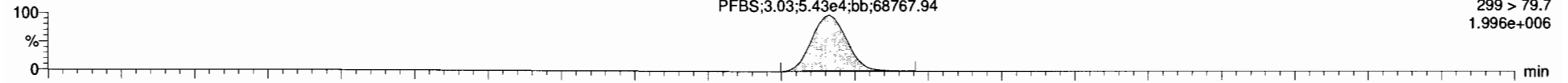
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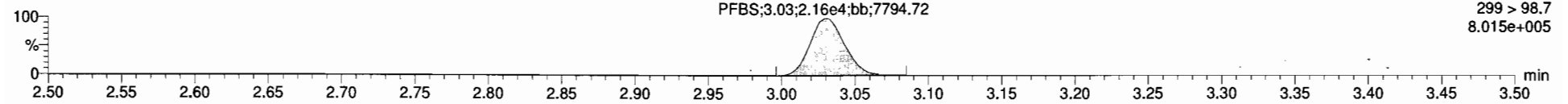
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PFBS

170305G1_8

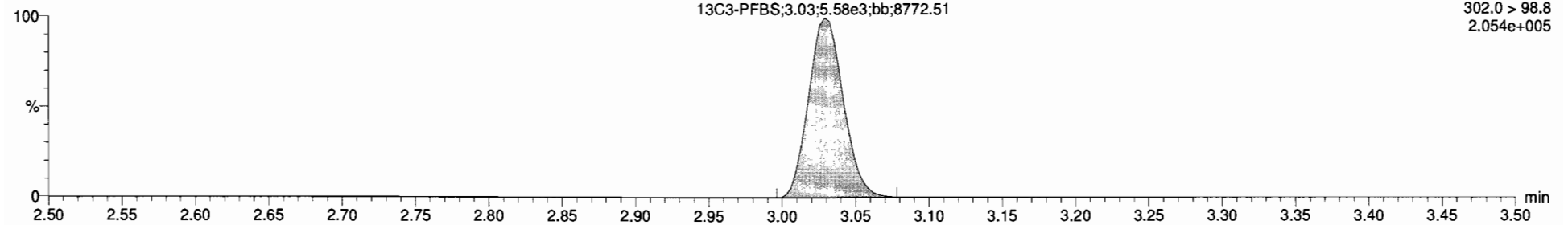


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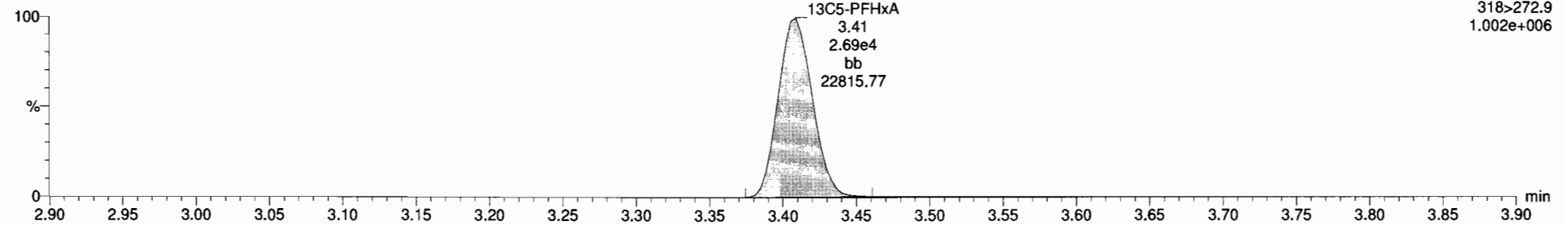
13C3-PFBS

170305G1_8



13C5-PFHxA

170305G1_8



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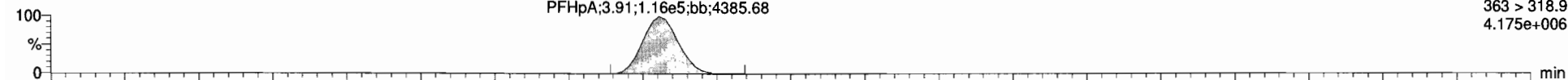
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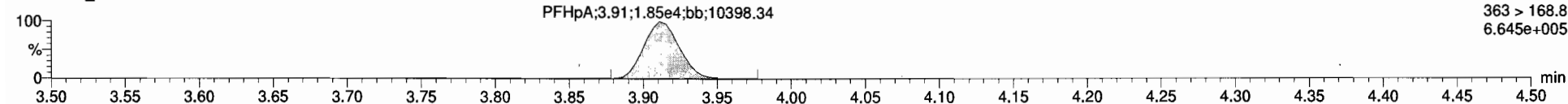
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PFHpA

170305G1_8

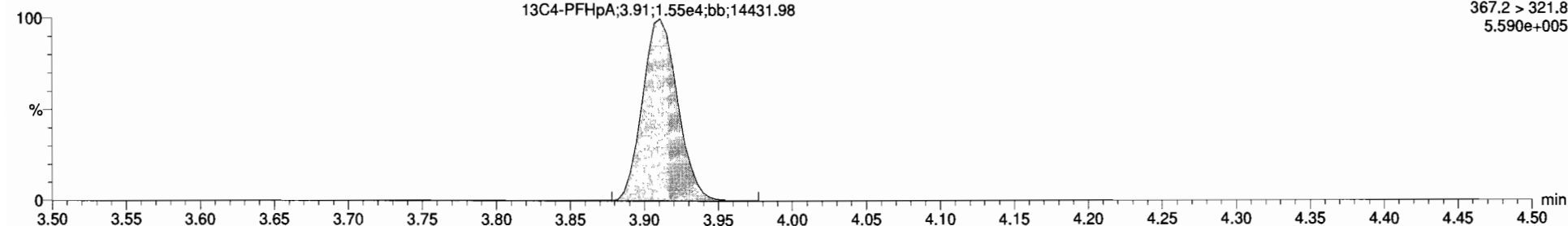


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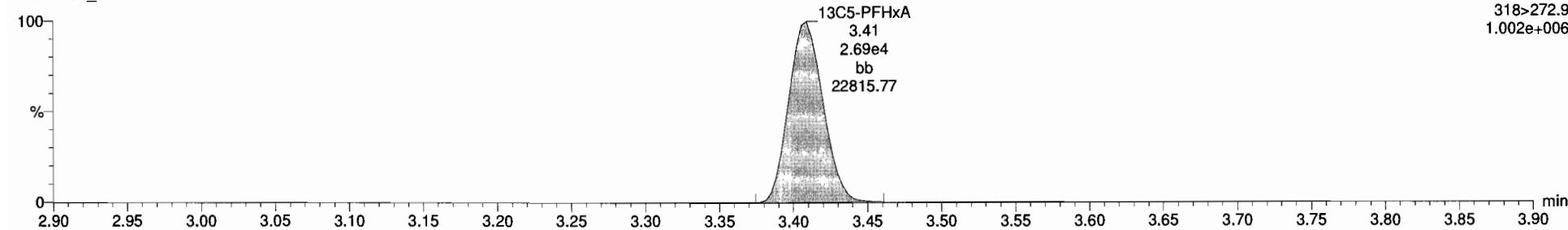
13C4-PFHpA

170305G1_8



13C5-PFHxA

170305G1_8



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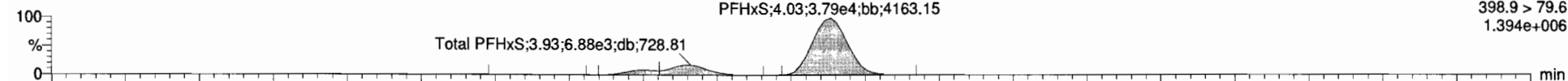
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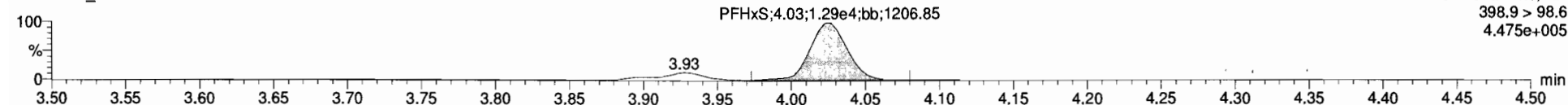
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Total PFHxS

170305G1_8

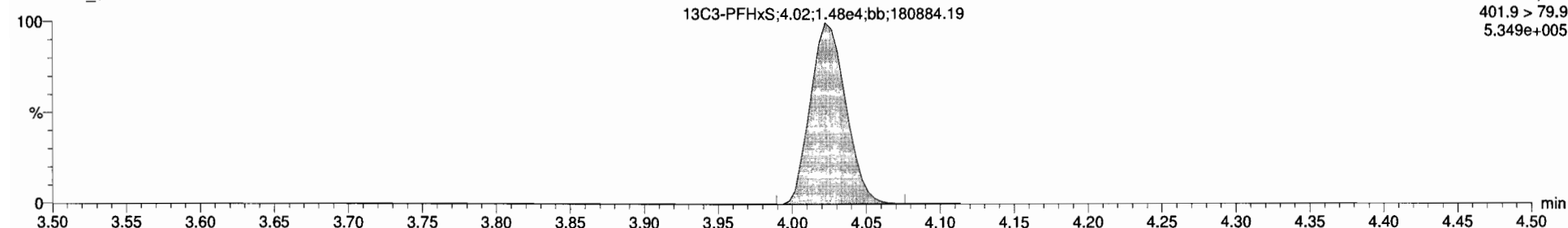


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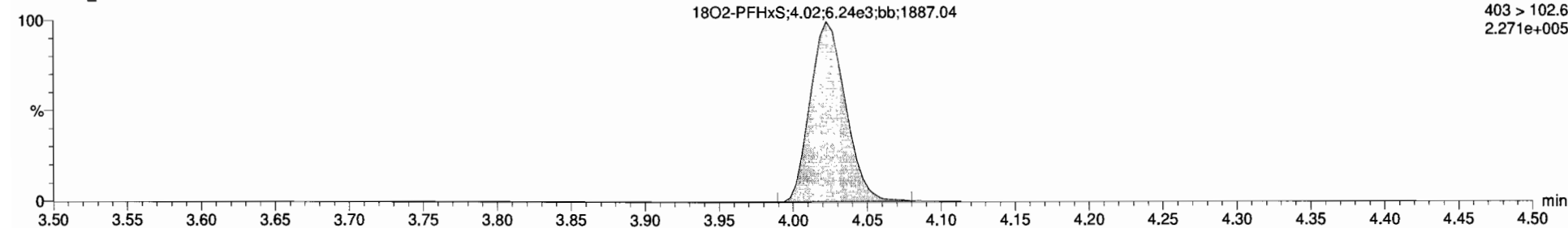
13C3-PFHxS

170305G1_8



18O2-PFHxS

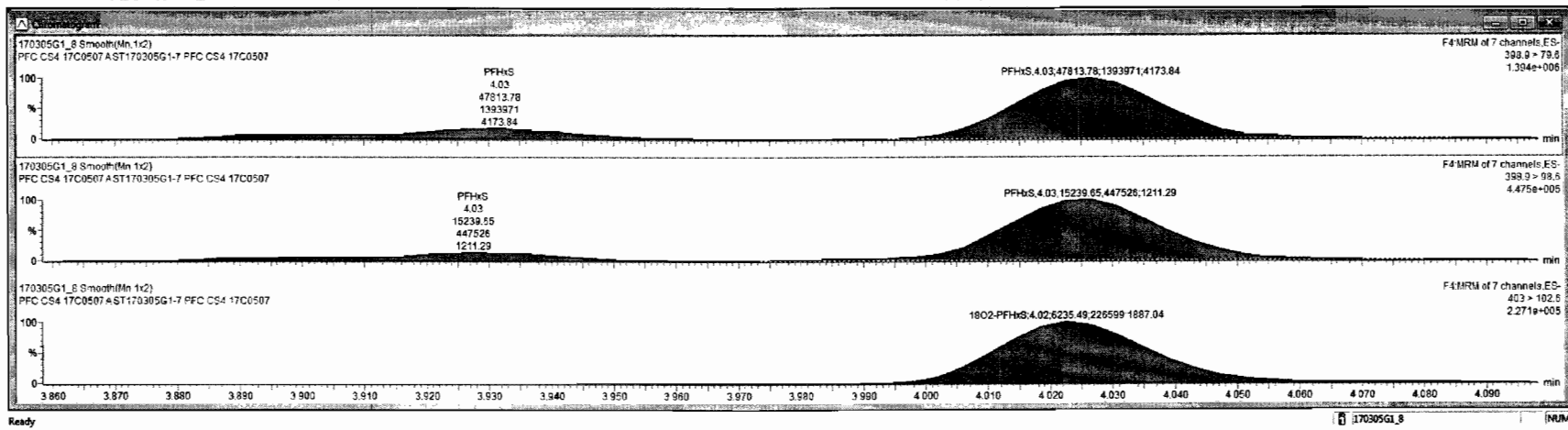
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170305G1_8 - ST170305G1-7 PFC CS4 17C0507 - PFC CS4 17C0507A

Name	Trace	Area	RRR	WVAL	Pred RT	RT	Conc.	MSL	SNR	DL
PFBS	299 > 79.7	5.43e4		1.000	3.03	3.03	51.1	YES	102.1	0.0000000
PFHpA	363 > 318.9	1.16e5		1.000	3.91	3.91	51.9	YES	103.8	0.0000000
PFHxS	398.9 > 79.6	4.79e4		1.000	4.03	4.03	52.8	YES	105.8	0.0000000
PFDA	413 > 368.7	1.10e5		1.000	4.30	4.30	52.3	YES	104.6	0.0000000
PFNA	453 > 418.8	7.41e4		1.000	4.63	4.63	52.1	YES	104.1	0.0000000
PFOS	499 > 79.9	1.04e4		1.000	4.69	4.69	48.3	YES	96.6	0.1281301
13C1-PFBS	302.0 > 98.8	5.58e3	0.410	1.000	3.03	3.03	11.5	NO	82.1	0.0033337
13C1-PFHpA	367.2 > 321.8	1.55e4	1.10	1.000	3.90	3.91	11.9	NO	85.6	0.0020622
1602-PFHxS	403 > 102.6	6.24e3	0.434	1.000	4.02	4.02	12.1	NO	97.2	0.0161792
13C2-PFOA	414.9 > 369.7	3.30e4	4.61	1.000	4.30	4.30	12.3	NO	98.2	0.0024226
13C2-PFNA	458.2 > 422.9	6.50e3	0.667	1.000	4.63	4.63	12.3	NO	98.7	0.0031015
13C2-PFOS	507.0 > 79.9	5.14e3	0.958	1.000	4.69	4.69	13.1	NO	104.4	0.0094134
13C3-PFHxS	316.272.9	2.89e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0013897
13C3-PFHxS	401.9 > 79.9	1.48e4	1.00	1.000	3.94	4.02	12.5	NO	100.0	0.0001728
13C3-PFOA	421.2 > 376	7.29e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0034967
13C3-PFNA	472.2 > 426.9	7.60e3	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0166538
13C3-PFOS	503.0 > 79.9	5.13e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0018396
Total PFBS	299 > 79.7	5.43e4		1.000	3.11		51.1	NO		
Total PFHxS	398.9 > 79.6	5.73e4		1.000	4.09		63.2	NO		
Total PFDA	413 > 368.7	1.10e5		1.000	4.39		52.3	NO		
Total PFOS	499 > 79.9	1.33e4		1.000	4.67		62.0	NO		0.1281301



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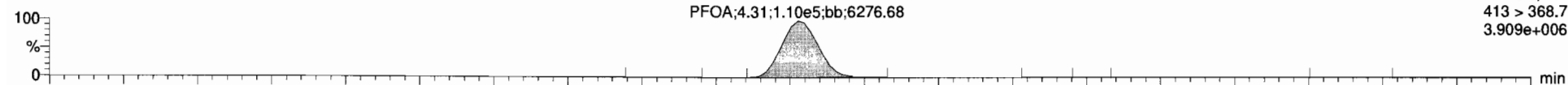
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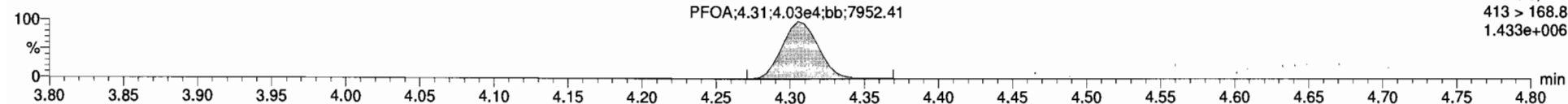
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Total PFOA

170305G1_8

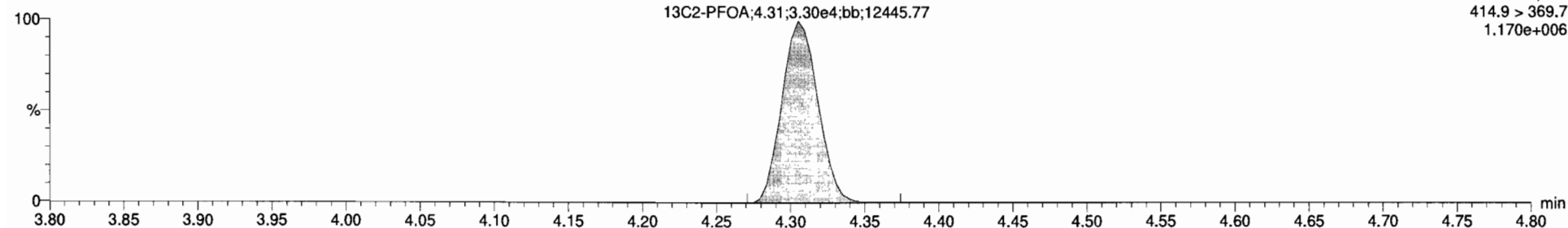


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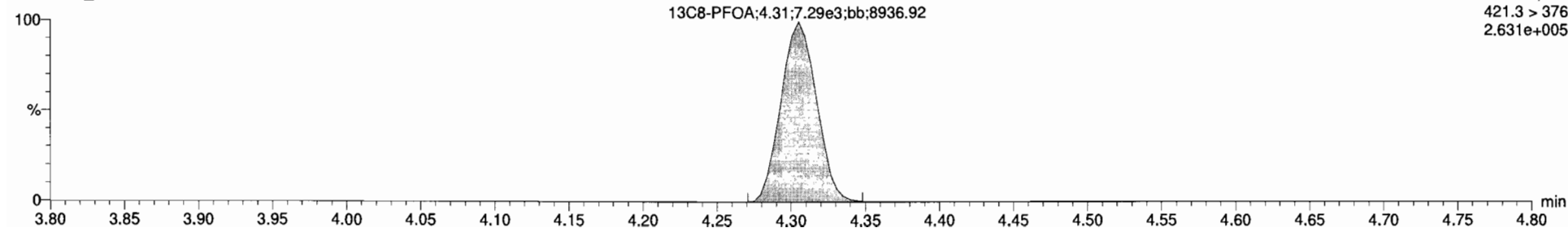
13C2-PFOA

170305G1_8



13C8-PFOA

170305G1_8



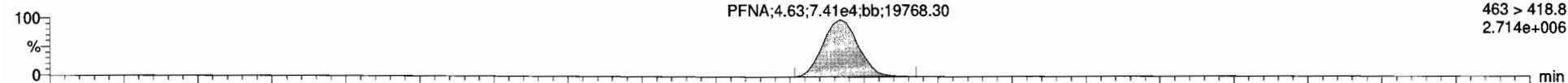
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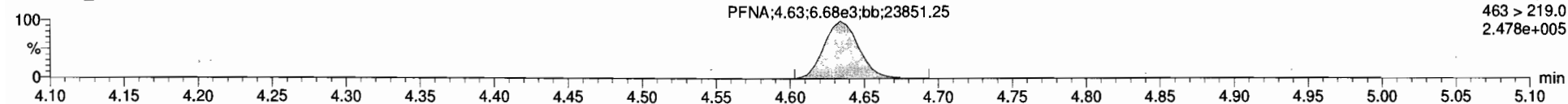
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PFNA

170305G1_8

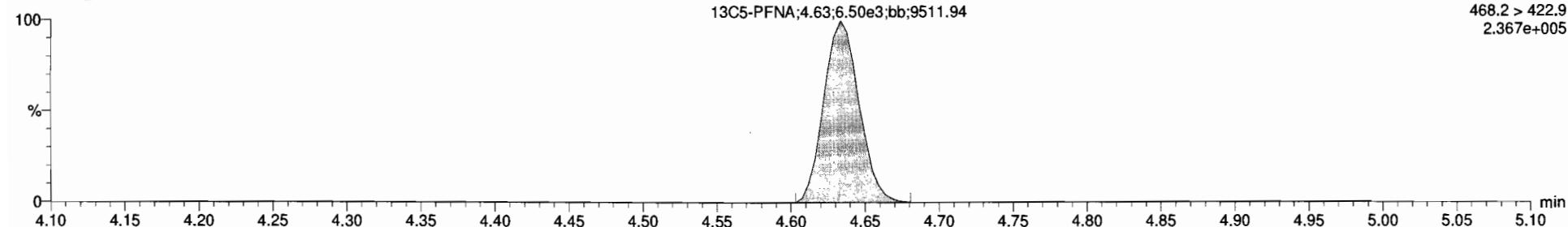


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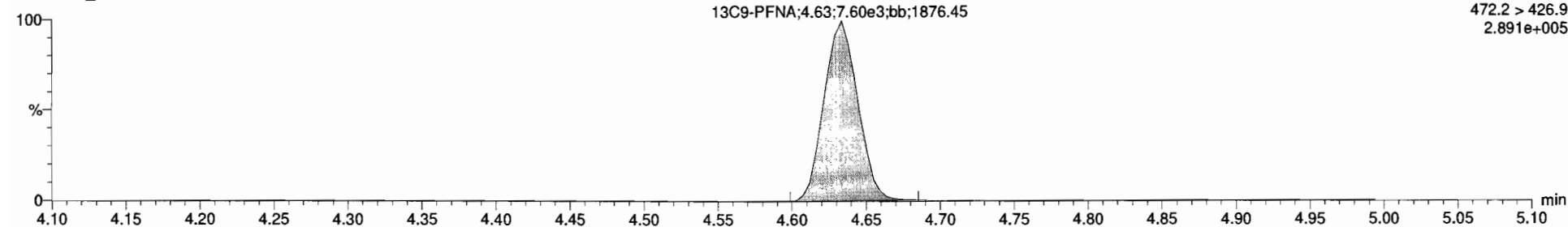
13C5-PFNA

170305G1_8



13C9-PFNA

170305G1_8



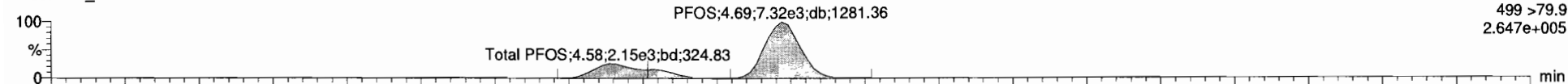
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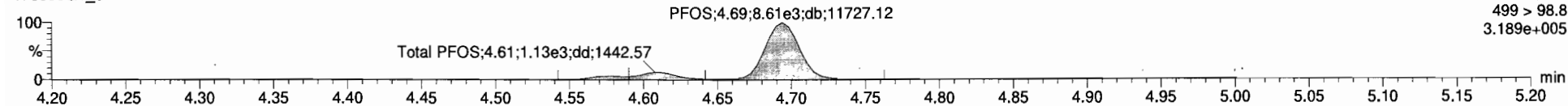
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Total PFOS

170305G1_8

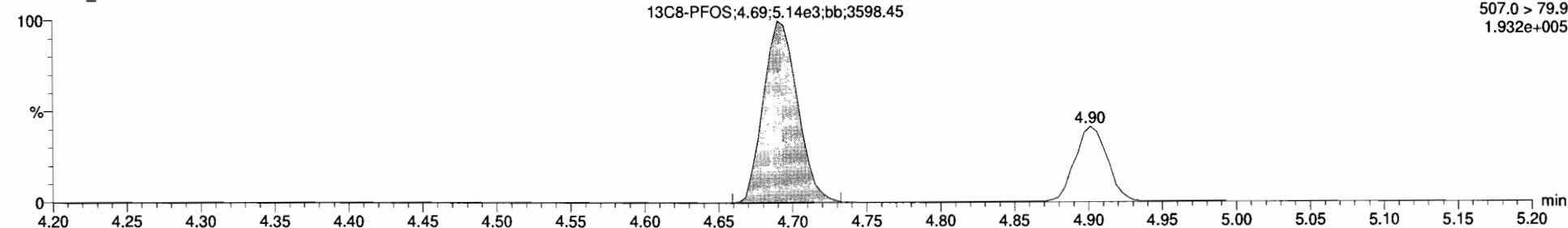


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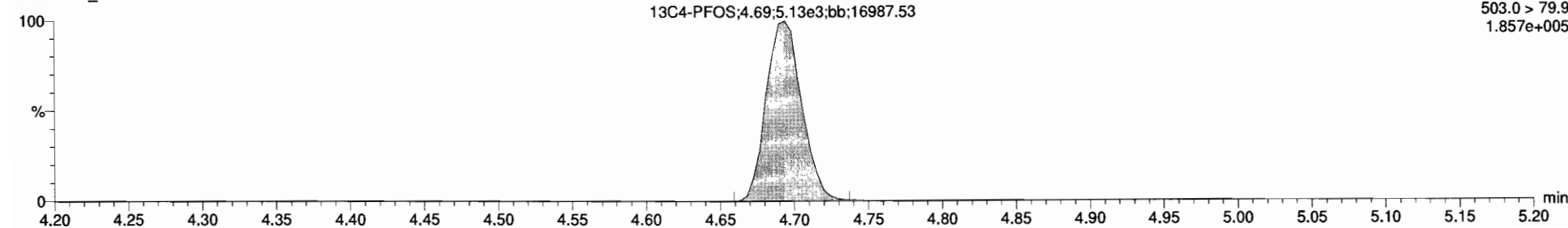
13C8-PFOS

170305G1_8

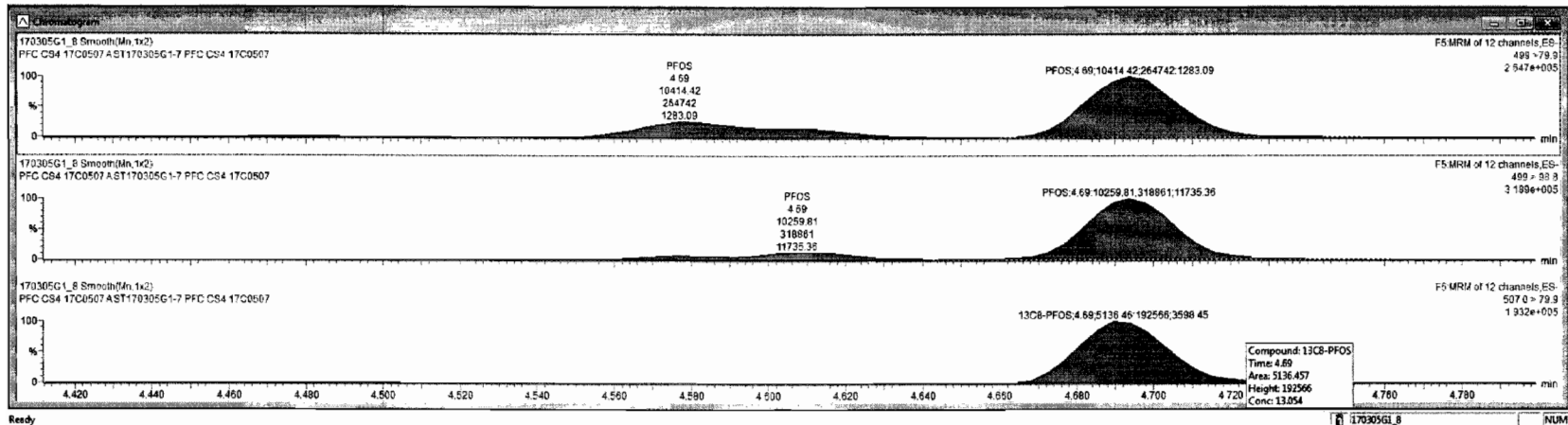


13C4-PFOS

170305G1_8



Name	Trace	Area	W/F	W/Ht	Pre-RT	RT	Conc.	MSL	WRet	DL	
1	PFBS	290 > 79.7	5.43e4		1.000	3.03	3.03	51.1	YES	102.1	0.0000000
2	PFHPA	362 > 318.9	1.16e5		1.000	3.91	3.91	51.9	YES	103.3	0.0000000
3	PFHS	398.9 > 79.6	4.78e4		1.000	4.02	4.03	52.8	YES	105.6	0.0000000
4	PFOA	413 > 368.7	1.10e5		1.000	4.30	4.30	52.3	YES	104.6	0.0000000
5	PFNA	463 > 418.6	7.41e4		1.000	4.63	4.63	52.1	YES	104.1	0.0000000
6	PFOS	499 > 79.9	1.04e4		1.000	4.69	4.69	48.3	YES	96.8	0.1281301
7	13C3-PFBS	302.0 > 96.8	5.58e3	0.410	1.000	3.03	3.03	11.5	NO	92.1	0.0033337
8	13C4-PFHPA	367.2 > 321.8	1.55e4	1.10	1.000	3.90	3.91	11.9	NO	95.8	0.0020622
9	18O2-PFHS	403 > 102.6	6.24e3	0.434	1.000	4.02	4.02	12.1	NO	97.2	0.0181792
10	13C2-PFOA	414.9 > 369.7	3.30e4	4.61	1.000	4.30	4.30	12.3	NO	98.2	0.0024228
11	13C5-PFNA	468.2 > 422.9	6.50e3	0.867	1.000	4.63	4.63	12.3	NO	95.7	0.0031015
12	13C8-PFOS	507.0 > 79.9	5.14e3	0.936	1.000	4.69	4.69	13.1	NO	104.4	0.0094134
13	13C5-PFHPA	319 > 272.9	2.99e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0019697
14	13C3-PFHS	401.9 > 79.9	1.40e4	1.00	1.000	3.94	4.02	12.5	NO	100.0	0.0003496
15	13C8-PFOA	421.3 > 378	7.29e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0166532
16	13C9-PFNA	472.2 > 426.9	7.60e3	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0166532
17	13C4-PFOS	503.0 > 79.9	5.13e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0016356
18	Total PFBS	290 > 79.7	5.43e4		1.000	3.11		51.1	NO		
19	Total PFHS	398.9 > 79.6	5.73e4		1.000	4.09		63.2	NO		
20	Total PFOA	413 > 368.7	1.10e5		1.000	4.39		52.3	NO		
21	Total PFOS	499 > 79.9	1.33e4		1.000	4.67		62.0	NO		0.1281301



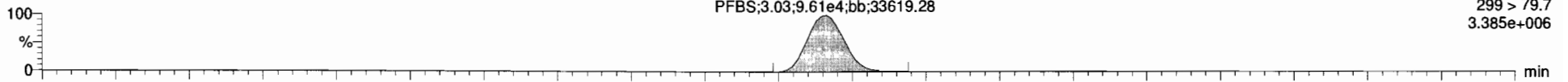
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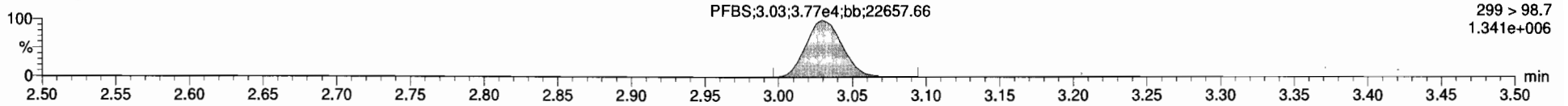
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PFBS

170305G1_9

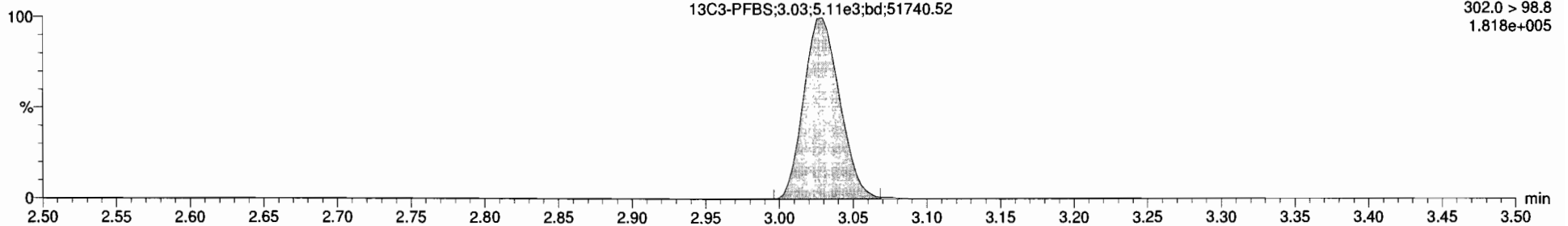


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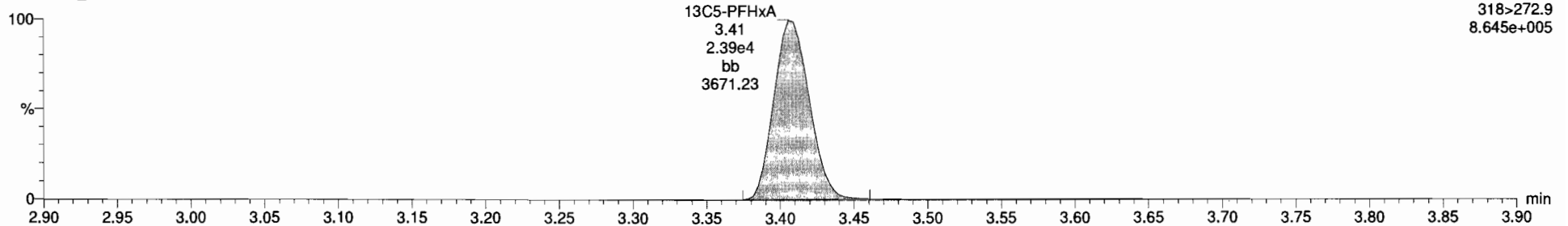
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13C5-PFHxA

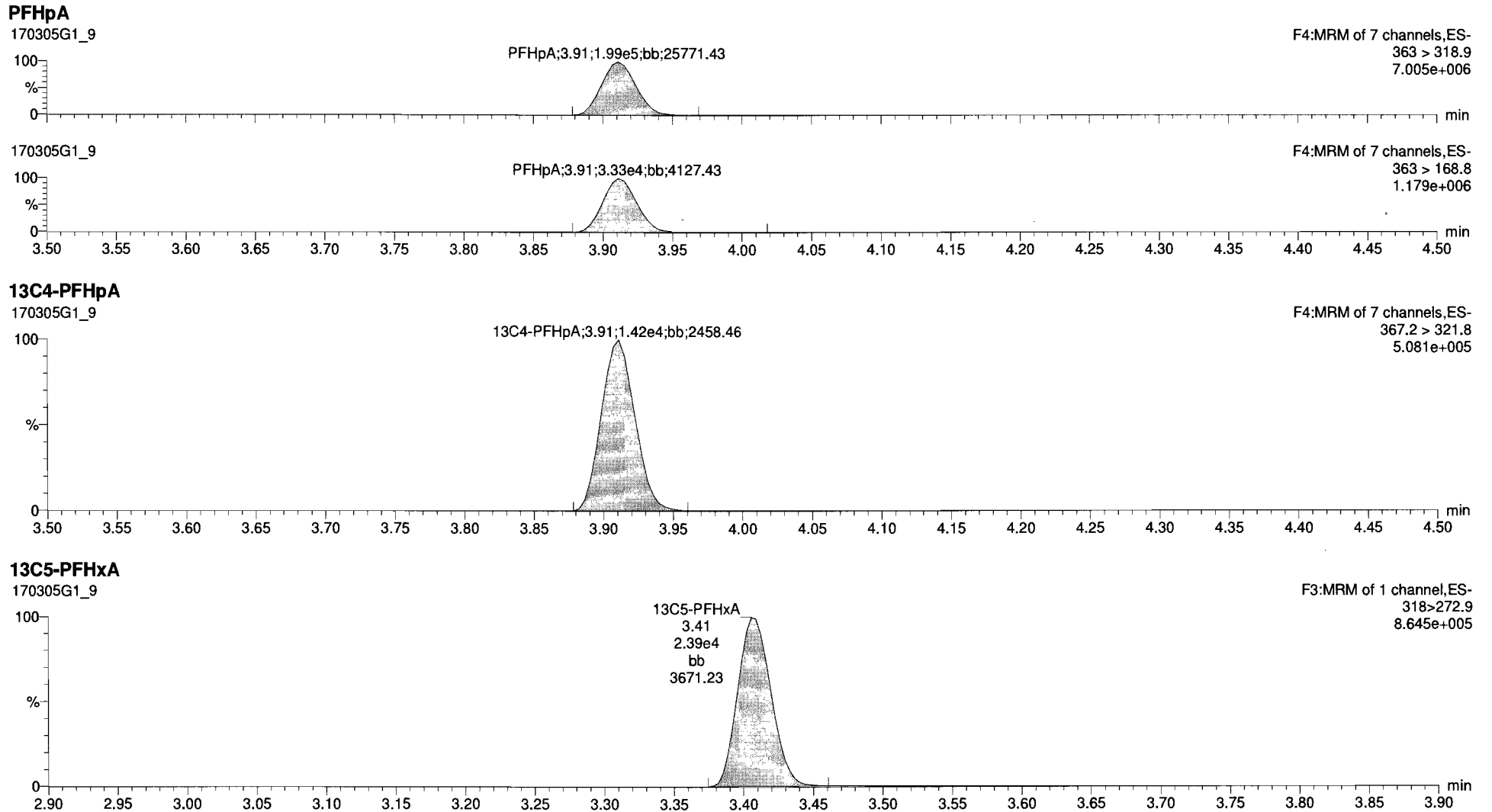
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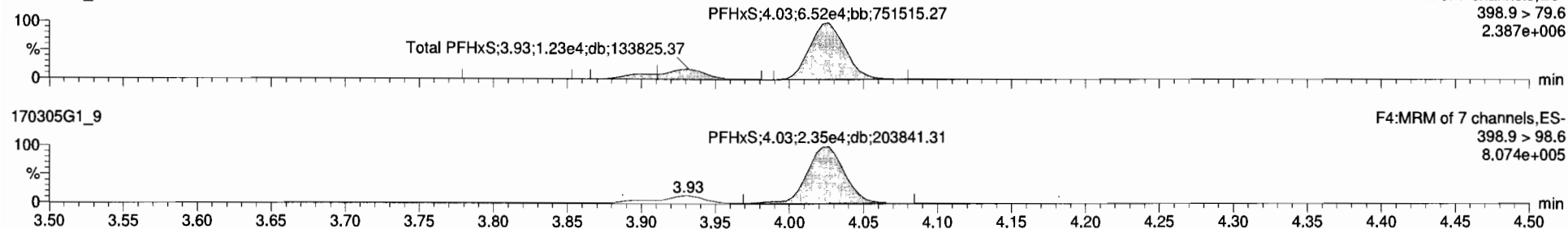
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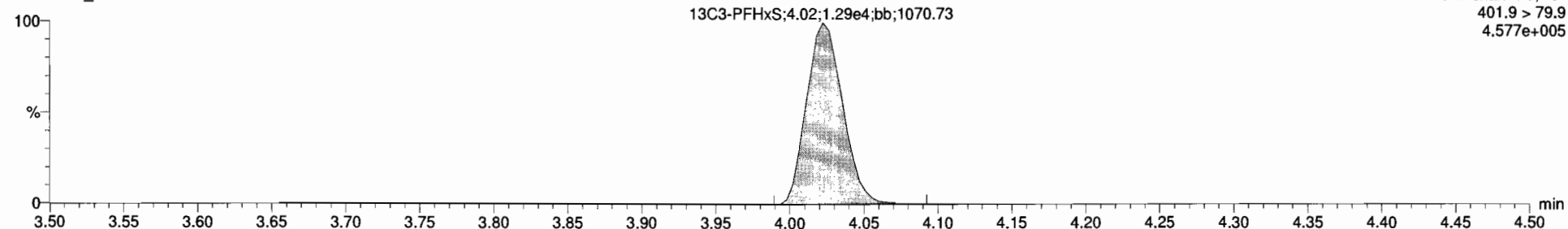
Total PFHxS

170305G1_9



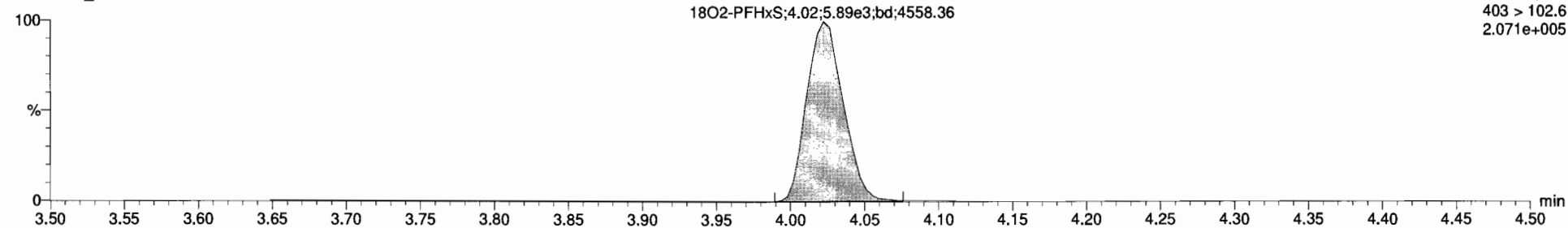
13C3-PFHxS

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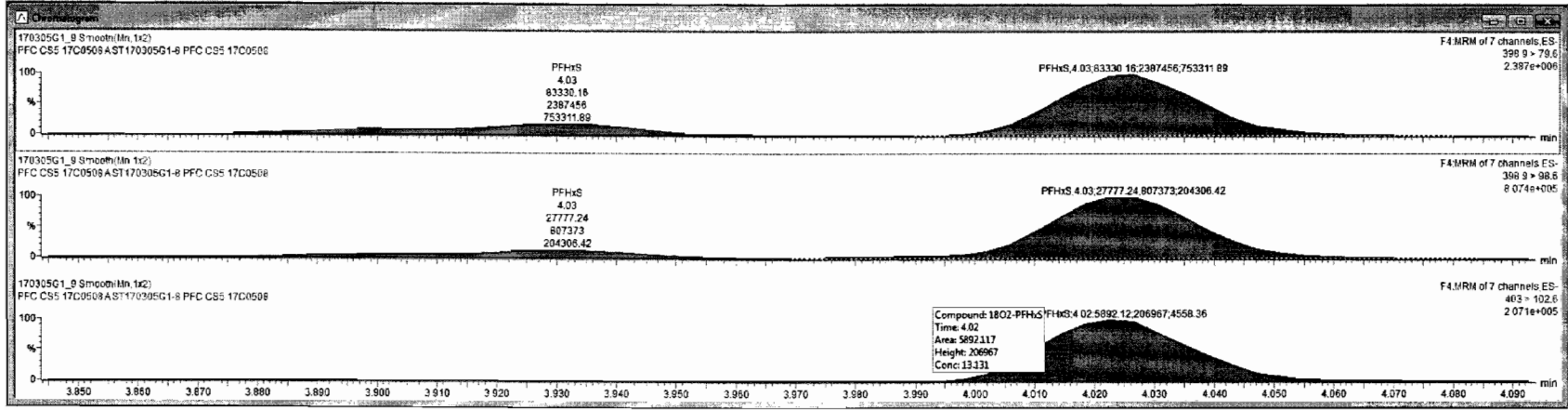


18O2-PFHxS

170305G1_9



Peak	Name	Trace	Area	RRP	WtVol	Prod RT	RT	Conc	UIOL	NRAC	DL
1	PFBS	299 > 79.7	9.81e4		1.000	3.03	3.03	98.6	YES	98.6	0.000000
2	PFHpA	363 > 318.9	1.99e5		1.000	3.91	3.91	97.6	YES	97.6	0.000000
3	PFHxS	368.9 > 79.6	8.33e4		1.000	4.02	4.03	97.4	YES	97.4	0.000000
4	PFDA	413 > 368.7	1.98e5		1.000	4.30	4.30	96.4	YES	96.4	0.000000
5	PFNA	463 > 418.8	1.56e5		1.000	4.63	4.63	97.1	YES	97.1	0.000000
6	PFOS	499 > 79.9	2.64e4		1.000	4.78	4.69	100	YES	100.2	0.096692
7	13C1-PFBS	302.0 > 98.8	5.11e3	0.410	1.000	3.02	3.03	12.1	NO	96.5	0.007023
8	13C4-PFHpA	367.2 > 321.8	1.42e4	1.10	1.000	3.90	3.91	12.5	NO	99.8	0.0154075
9	18O2-PFHxS	403 > 102.6	5.89e3	0.434	1.000	4.02	4.02	13.1	NO	105.0	0.0085761
10	13C2-PFOA	414.9 > 369.7	3.22e4	4.81	1.000	4.30	4.30	13.3	NO	105.0	0.0220827
11	13C5-PFNA	462.2 > 422.9	7.35e3	0.867	1.000	4.63	4.63	12.4	NO	99.5	0.0013263
12	13C6-PFOS	507.8 > 79.9	6.36e3	0.958	1.000	4.69	4.69	12.7	NO	101.3	0.0096289
13	13C8-PFNA	318 > 272.9	2.39e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0102446
14	13C1-PFHxS	401.9 > 79.9	1.29e4	1.00	1.000	3.94	4.02	12.5	NO	100.0	0.0350229
15	13C4-PFOA	421.3 > 378	6.59e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0104096
16	13C5-PFNA	472.2 > 426.9	8.52e3	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0039269
17	13C1-PFOS	503.0 > 79.9	6.45e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0016940
18	Total PFBS	299 > 79.7	9.81e4		1.000	3.11		98.6	NO		0.000000
19	Total PFHxS	368.9 > 79.6	1.01e5		1.000	4.09		118	NO		0.000000
20	Total PFOA	413 > 368.7	1.98e5		1.000	4.39		96.4	NO		0.000000
21	Total PFOS	499 > 79.9	3.65e4		1.000	4.67		135	NO		0.096692



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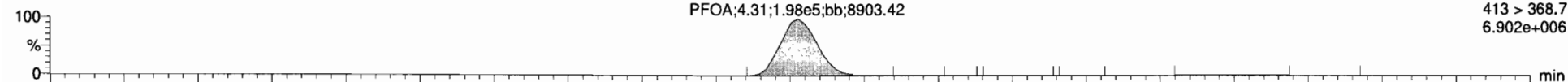
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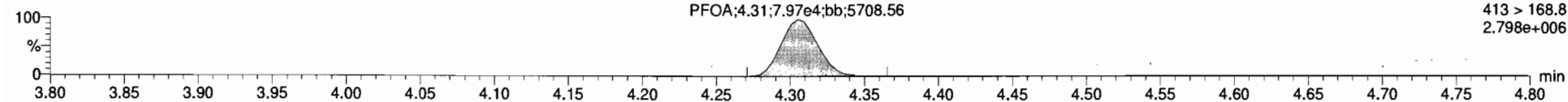
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Total PFOA

170305G1_9

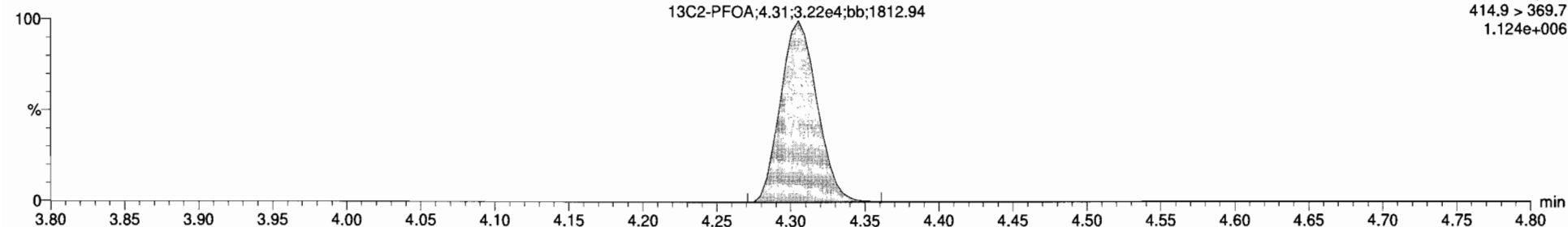


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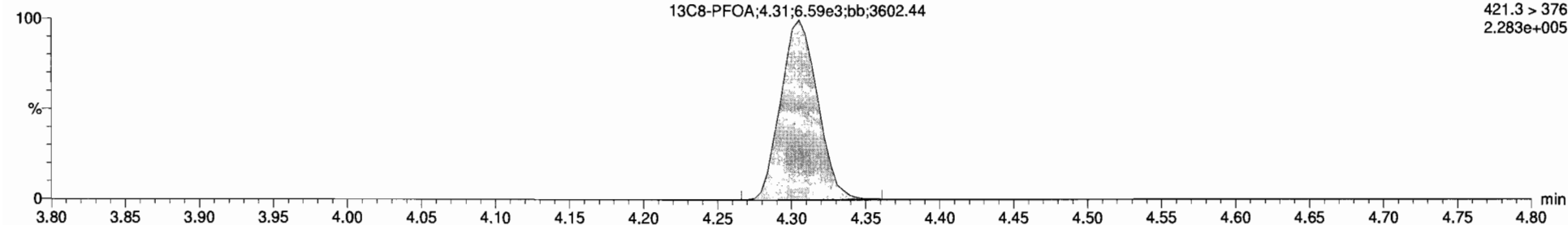
13C2-PFOA

170305G1_9



13C8-PFOA

170305G1_9

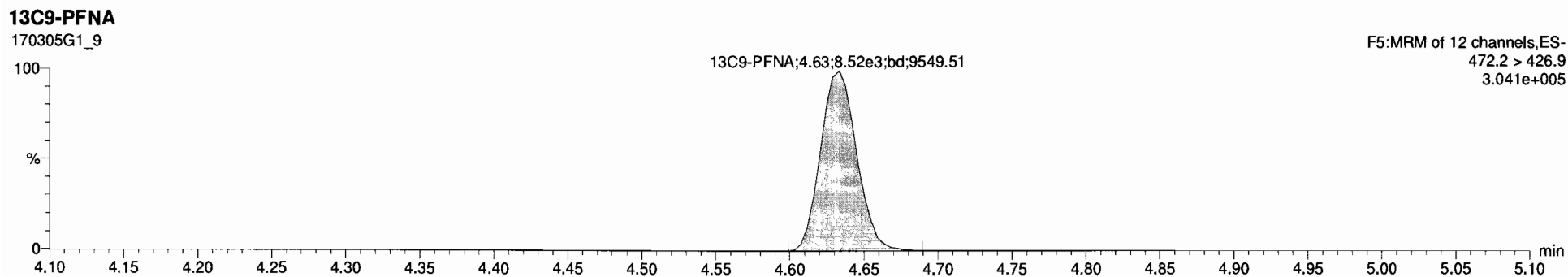
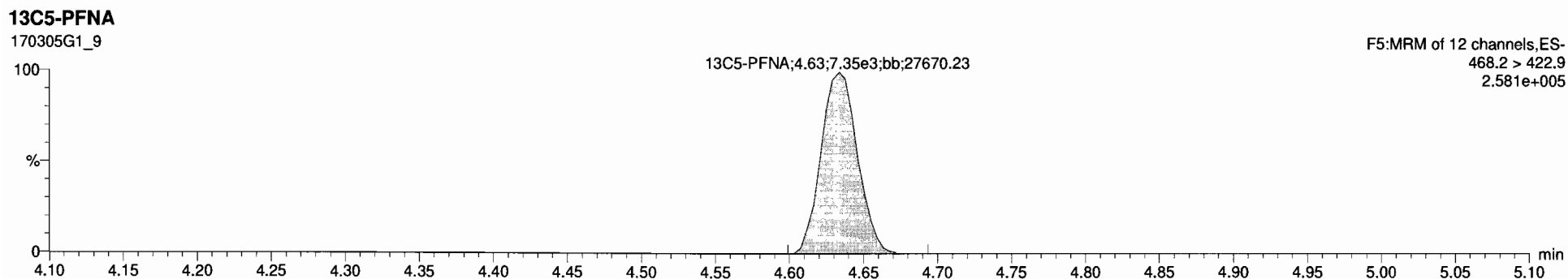
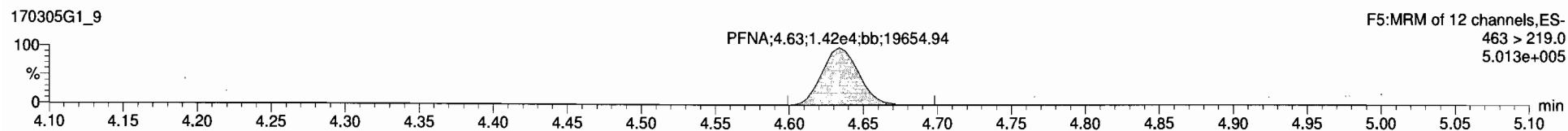
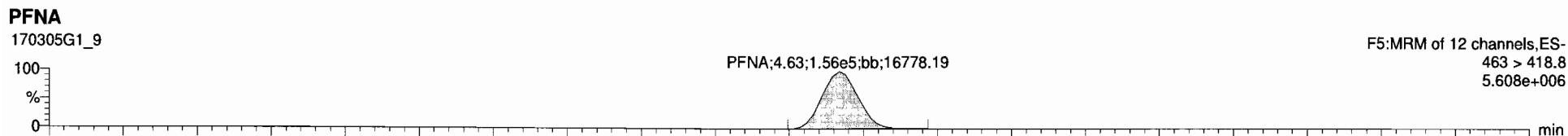


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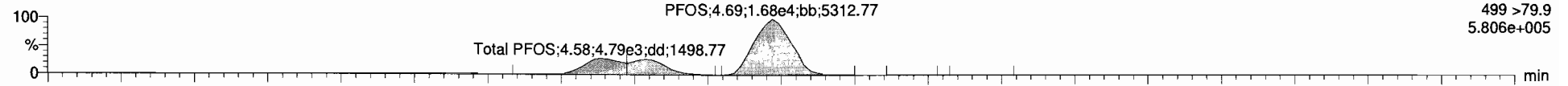
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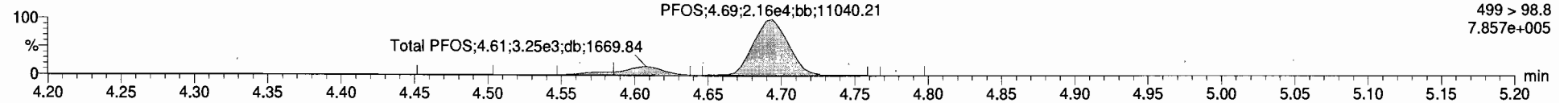
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Total PFOS

170305G1_9

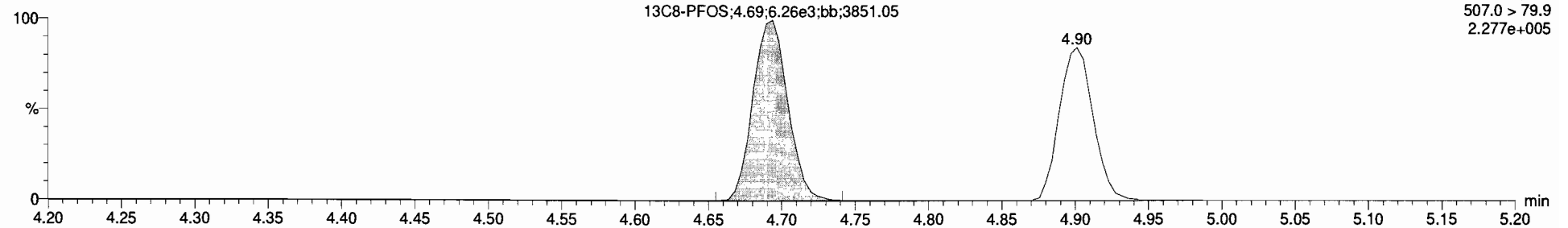


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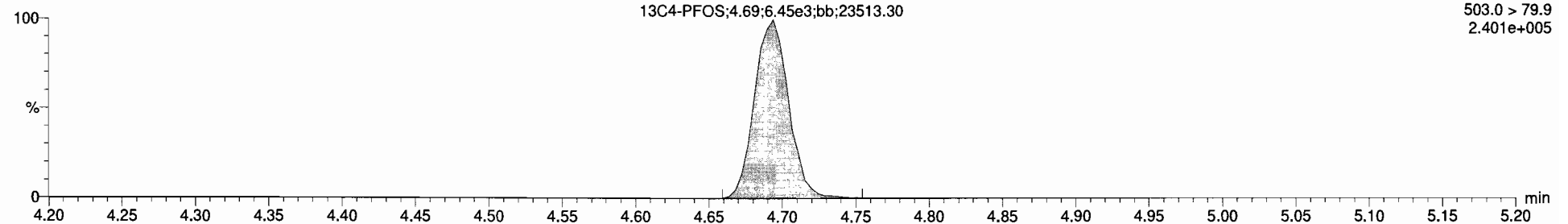
13C8-PFOS

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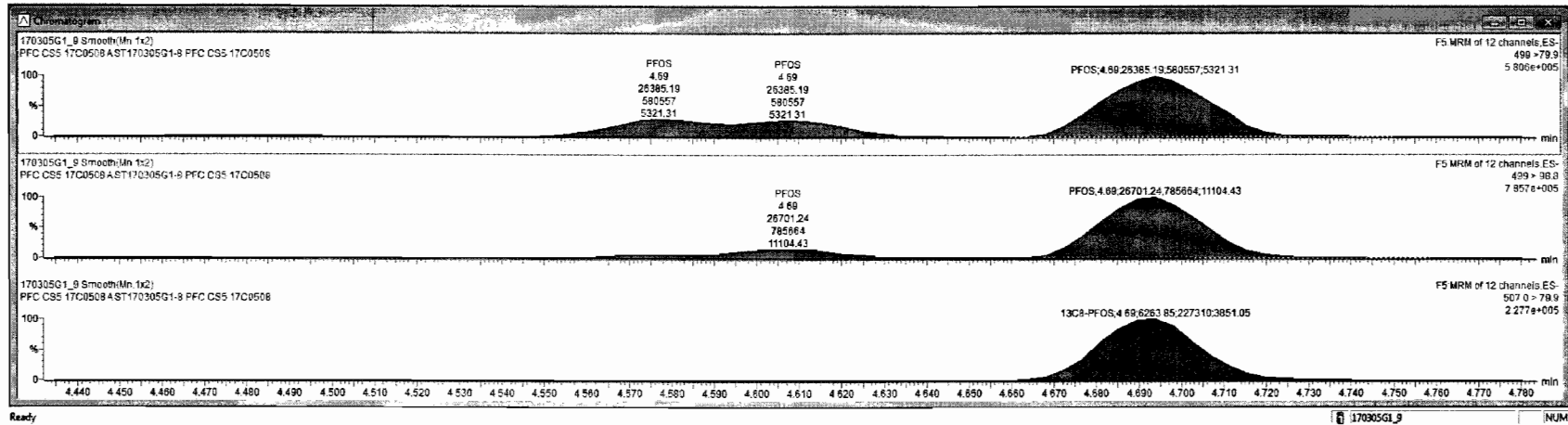


13C4-PFOS

170305G1_9



#	Name	Traps	Area	RRF	Wt%	Prod RT	RT	Conc.	>IDL	%Rec	DL
1	PFBS	299 > 78.7	9.61e4		1.000	3.03	3.03	98.8	YES	98.8	0.000000
2	PFNA	363 > 318.9	1.99e5		1.000	3.91	3.91	97.6	YES	97.6	0.000000
3	PFHxS	392.9 > 79.6	8.33e4		1.000	4.02	4.02	97.4	YES	97.4	0.000000
4	PFDA	413 > 368.7	1.98e5		1.000	4.30	4.30	96.4	YES	96.4	0.000000
5	PFNA	463 > 418.8	1.56e5		1.000	4.63	4.63	97.1	YES	97.1	0.000000
6	PFOS	499 > 79.9	3.55e4		1.000	4.70	4.69	100	YES	100.2	0.0686992
7	13C3-PFBS	302.0 > 98.8	5.11e3	0.410	1.000	3.02	3.03	12.1	NO	96.5	0.007023
8	13C4-PFHxA	367.2 > 321.8	1.42e4	1.10	1.000	3.90	3.91	12.5	NO	99.8	0.0154075
9	18O2-PFHxS	403 > 102.6	5.89e3	0.434	1.000	4.02	4.02	13.1	NO	105.0	0.0085751
10	13C2-PFDA	414.9 > 369.7	3.22e4	4.61	1.000	4.30	4.30	13.3	NO	105.0	0.0220827
11	13C3-PFNA	468.2 > 422.9	7.35e3	0.867	1.000	4.63	4.63	12.4	NO	99.5	0.0013253
12	13C8-PFOS	507.0 > 79.9	6.29e3	0.958	1.000	4.69	4.69	12.7	NO	101.3	0.0096289
13	13C3-PFHxA	318-272.9	2.39e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0102146
14	13C3-PFHxS	401.9 > 79.9	1.29e4	1.00	1.000	3.94	4.02	12.5	NO	100.0	0.0350220
15	13C6-PFDA	421.3 > 378	6.59e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0104096
16	13C9-PFNA	472.2 > 426.9	8.53e3	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0039259
17	13C4-PFOS	503.0 > 79.9	8.45e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0015848
18	Total PFBS	299 > 78.7	9.61e4		1.000	3.11		98.6	NO		0.000000
19	Total PFHxS	392.9 > 79.6	1.01e5		1.000	4.00		100	NO		0.000000
20	Total PFDA	413 > 368.7	1.98e5		1.000	4.39		96.4	NO		0.000000
21	Total PFOS	499 > 79.9	3.55e4		1.000	4.67		135	NO		0.0686992



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Last Altered: Monday, March 06, 2017 09:12:14 Pacific Standard Time

Printed: Monday, March 06, 2017 09:13:06 Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

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#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.09e4	6.54e3		1.000	3.03	8.70	87.0
2	2 PFHpA	363 > 318.9	2.52e4	1.73e4		1.000	3.91	10.0	100.4
3	3 PFHxS	398.9 > 79.6	8.94e3	6.56e3		1.000	4.03	9.33	93.3
4	4 PFOA	413 > 368.7	2.26e4	3.20e4		1.000	4.31	10.9	108.7
5	5 PFNA	463 > 418.8	1.28e4	5.80e3		1.000	4.63	10.0	100.4
6	6 PFOS	499 > 79.9	2.01e3	4.01e3		1.000	4.69	11.7	117.2
7	7 13C3-PFBS	302.0 > 98.8	6.54e3	1.49e4	0.410	1.000	3.03	13.4	106.8
8	8 13C4-PFHpA	367.2 > 321.8	1.73e4	1.49e4	1.098	1.000	3.91	13.2	105.7
9	9 18O2-PFHxS	403 > 102.6	6.56e3	1.49e4	0.434	1.000	4.02	12.6	101.2
10	10 13C2-PFOA	414.9 > 369.7	3.20e4	7.38e3	4.608	1.000	4.31	11.8	94.1
11	11 13C5-PFNA	468.2 > 422.9	5.80e3	6.69e3	0.867	1.000	4.63	12.5	99.9
12	12 13C8-PFOS	507.0 > 79.9	4.01e3	4.48e3	0.958	1.000	4.69	11.7	93.4
13	13 13C5-PFHxA	318 > 272.9	2.89e4	2.89e4	1.000	1.000	3.41	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.49e4	1.49e4	1.000	1.000	4.03	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	7.38e3	7.38e3	1.000	1.000	4.31	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	6.69e3	6.69e3	1.000	1.000	4.63	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	4.48e3	4.48e3	1.000	1.000	4.69	12.5	100.0

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Printed: Monday, March 06, 2017 09:10:17 Pacific Standard Time

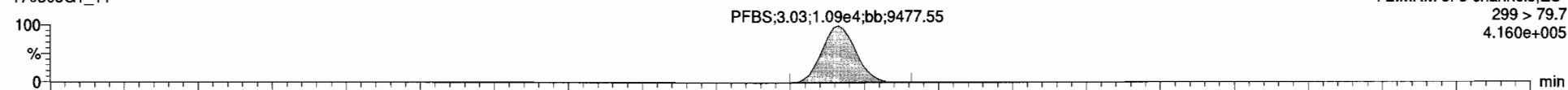
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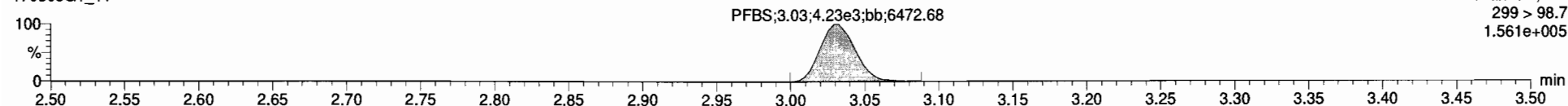
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PFBS

170305G1_11

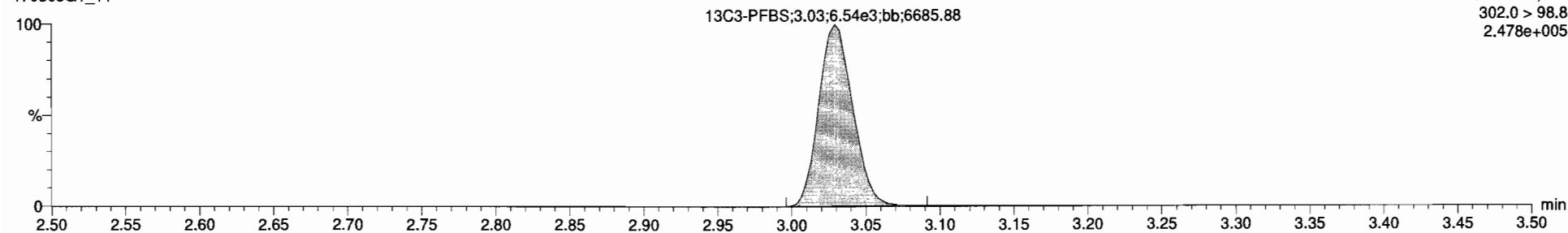


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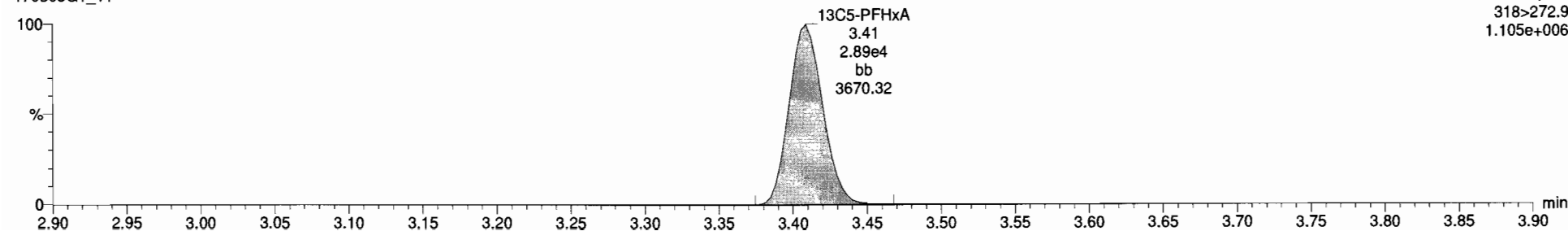
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170305G1_11



13C5-PFHxA

170305G1_11



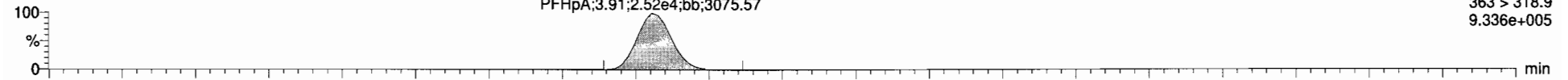
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Last Altered: Monday, March 06, 2017 09:10:12 Pacific Standard Time
Printed: Monday, March 06, 2017 09:10:17 Pacific Standard Time

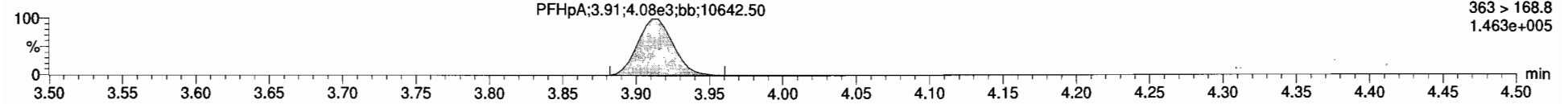
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PFHpA

170305G1_11

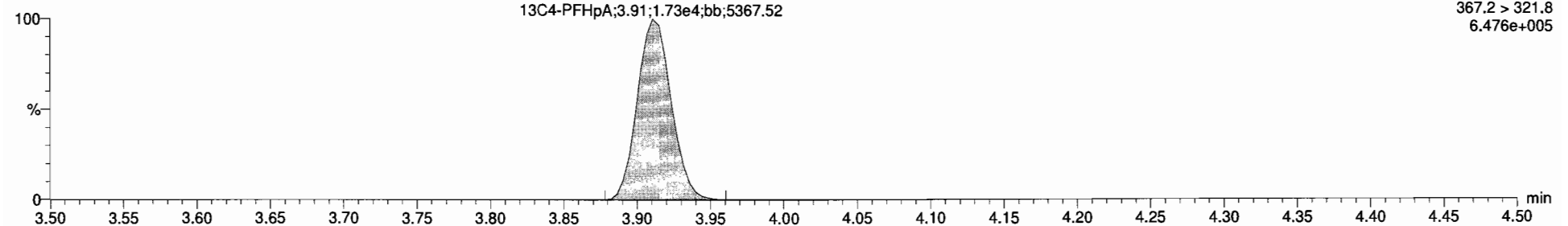


170305G1_11



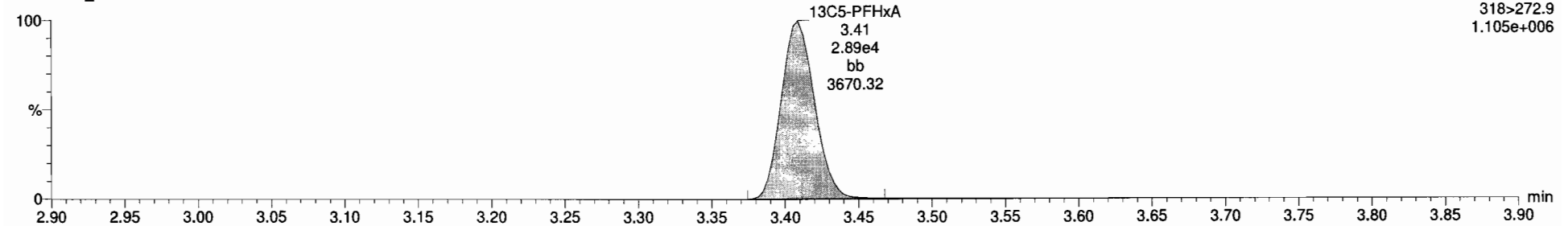
13C4-PFHpA

170305G1_11



13C5-PFHxA

170305G1_11



Dataset: Untitled

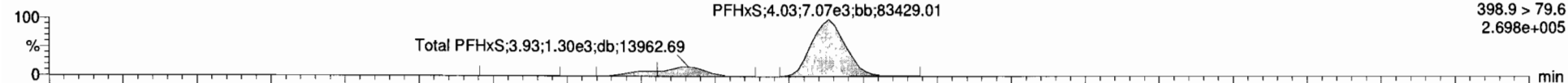
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Printed: Monday, March 06, 2017 09:10:17 Pacific Standard Time

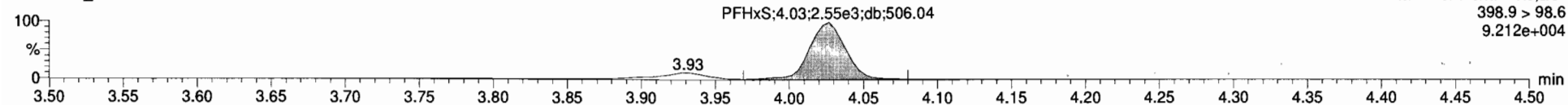
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Total PFHxS

170305G1_11

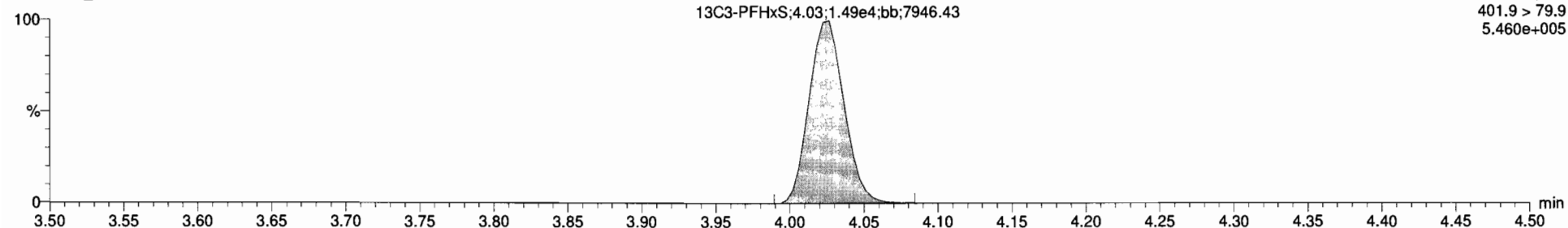


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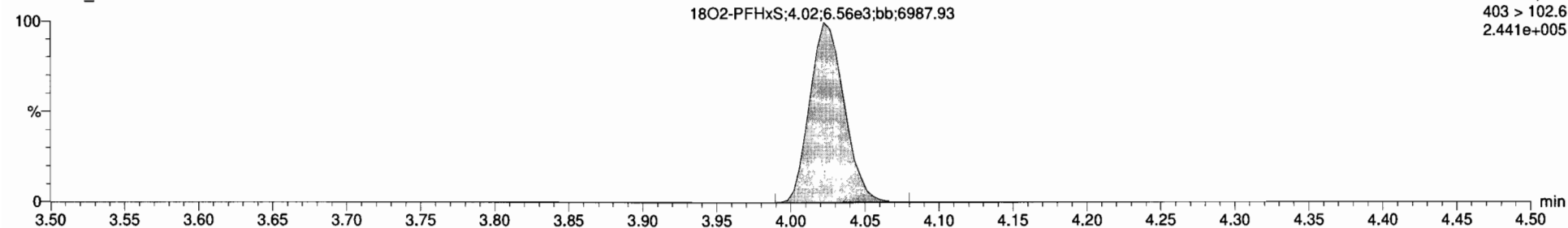
13C3-PFHxS

170305G1_11

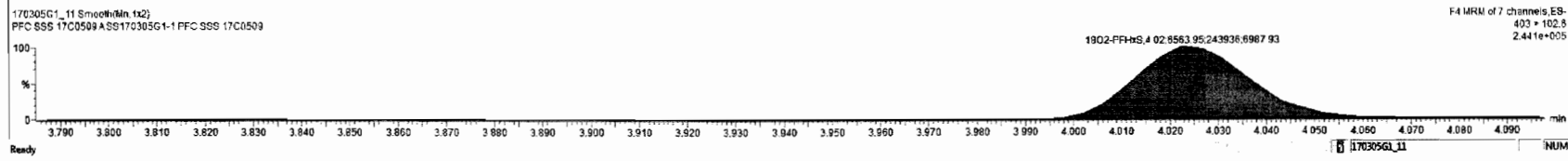
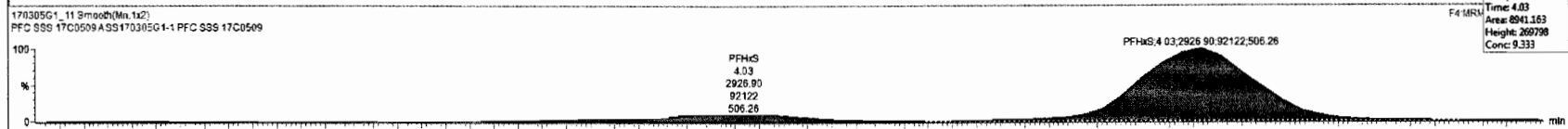
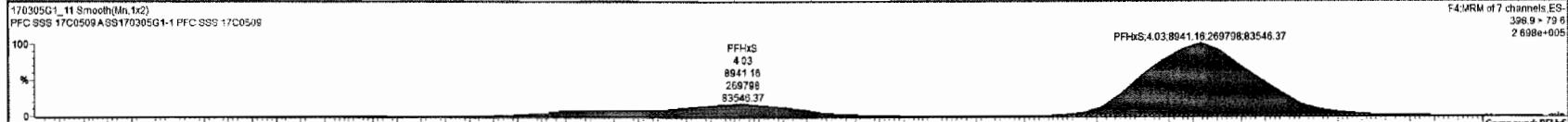


18O2-PFHxS

170305G1_11



Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRP	RT	#	ISA	RA	Y/N	RRT	Acq Date	Acq Time	# of Chk Noise	ID	Sample Text	Factor1	SW	Cal File	MOL
1 PFBS	8.698458	0.0000	87.0		1.097e4	3.03	1	7	0.389	YES	1.001	05-Mar-17	14:39:43	24	078	SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
2 PFHpA	10.037598	0.0000	100.4		2.523e4	3.91	2	8			1.000	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	YES
3 PFHxS	9.3329736	0.0000	83.3		8.841e3	4.03	3	9			1.001	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	YES
4 PFOA	10.865712	0.0000	105.7		2.256e4	4.31	4	10			1.000	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	YES
5 PFNA	10.042823	0.0000	100.4		1.279e4	4.63	5	11			1.000	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	YES
6 PFOS	7.5852330	0.122	75.9		1.296e3	4.69	6	12			1.000	05-Mar-17	14:39:43			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	YES
7 13C3-PFBS	13.351268	0.00517	106.8		6.541e3	0.410	3.03	7	14		0.889	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
8 13C4-PFHpA	13.214482	0.00629	105.7		1.734e4	1.938	3.91	8	14		0.971	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
9 18O2-PFHxS	12.948532	0.00481	101.2		6.564e3	0.434	4.02	9	14		0.999	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
10 13C2-PFOA	11.761296	0.00247	94.1		3.201e4	4.698	4.31	10	15		1.000	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
11 13C5-PFNA	12.488185	0.00143	99.0		5.797e3	0.287	4.63	11	16		1.000	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
12 13C6-PFOS	11.580781	0.00302	93.4		4.014e3	0.958	4.69	12	17		1.000	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
13 13C5-PFHxS	12.500000	0.00051	100.0		2.890e4	1.000	3.41	13	13		0.000	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
14 13C3-PFHS	12.500000	0.00393	100.0		1.494e4	1.000	4.03	14	14		0.000	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
15 13C4-PFOA	12.500000	0.00378	100.0		7.302e3	1.000	4.31	15	15		0.000	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
16 13C6-PFNA	12.500000	0.00140	100.0		6.692e3	1.000	4.63	16	16		0.000	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
17 13C4-PFOS	12.500000	0.00137	100.0		4.482e3	1.000	4.69	17	17		0.000	05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
18 Total PFBS	8.698458							18				05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
19 Total PFHxS	11.119483							19				05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
20 Total PFOA	10.865712							20				05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
21 Total PFOS	11.670726	0.122						21				05-Mar-17	14:39:40			SS170305G...	PFC SSS 17C05...	1.0	1.00	C18_V...	NO



Dataset: Untitled

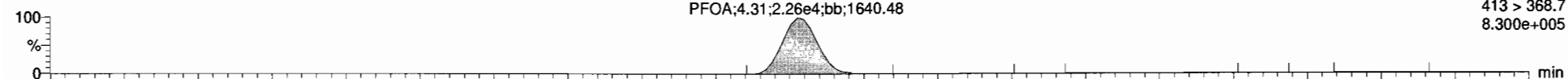
Last Altered: Monday, March 06, 2017 09:10:12 Pacific Standard Time

Printed: Monday, March 06, 2017 09:10:17 Pacific Standard Time

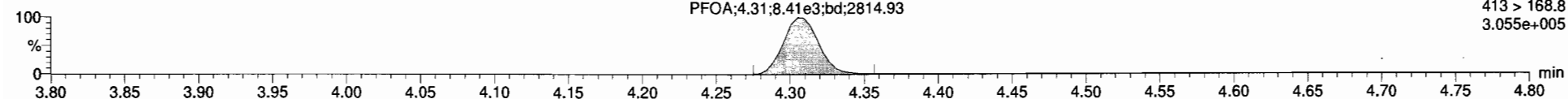
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Total PFOA

170305G1_11

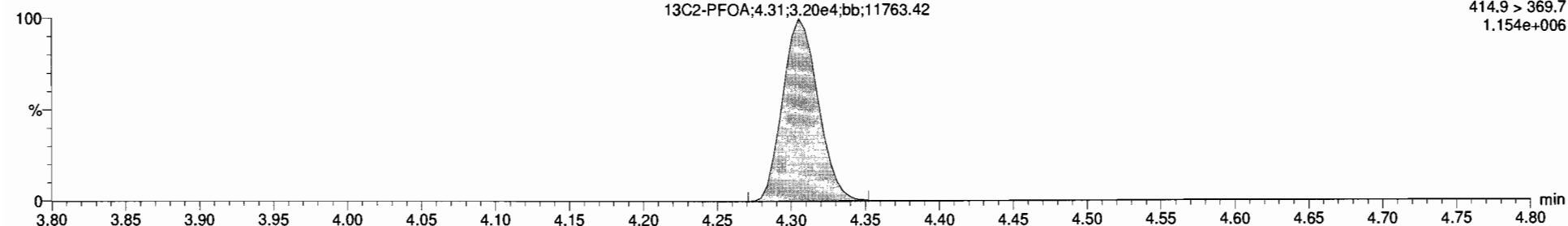


170305G1_11



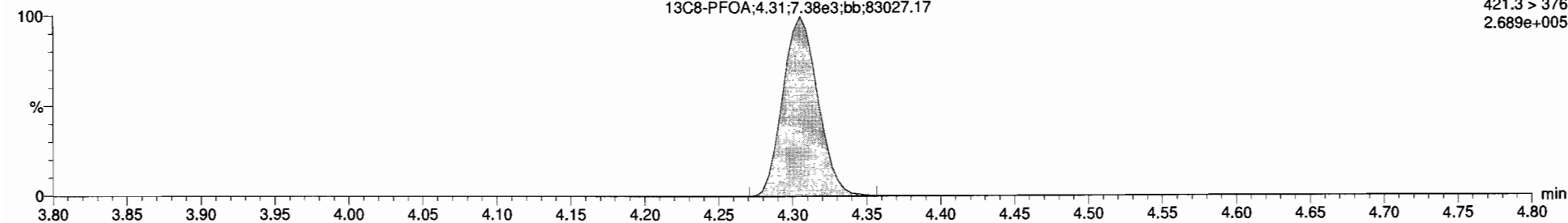
13C2-PFOA

170305G1_11



13C8-PFOA

170305G1_11



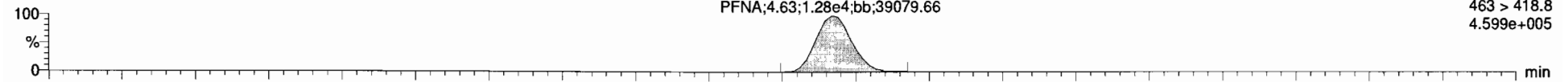
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Printed: Monday, March 06, 2017 09:10:17 Pacific Standard Time

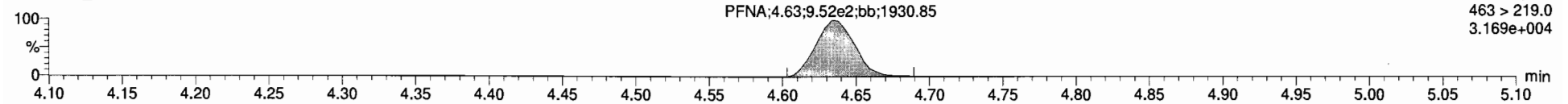
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PFNA

170305G1_11

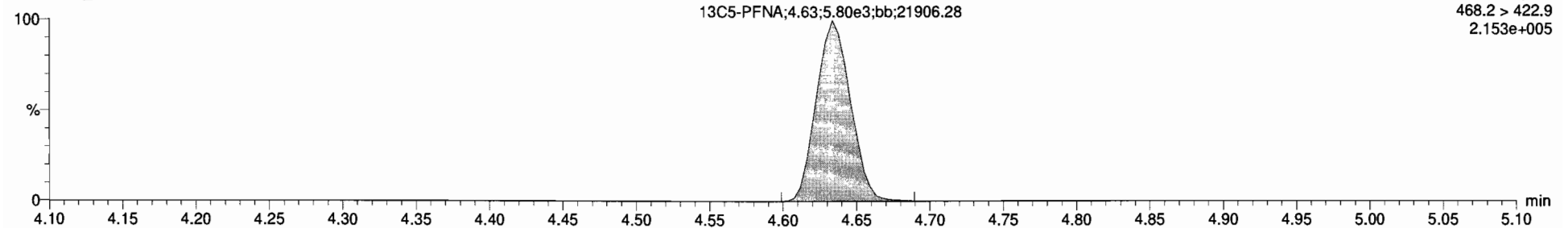


170305G1_11



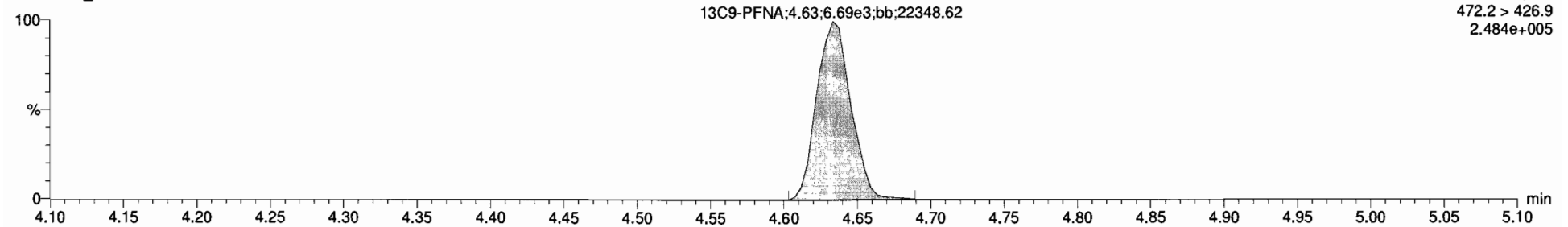
13C5-PFNA

170305G1_11



13C9-PFNA

170305G1_11



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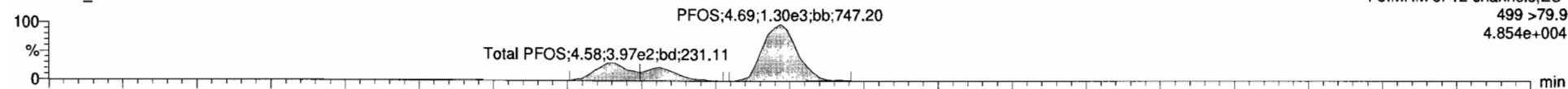
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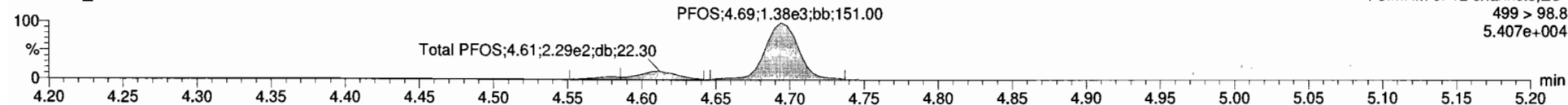
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Total PFOS

170305G1_11

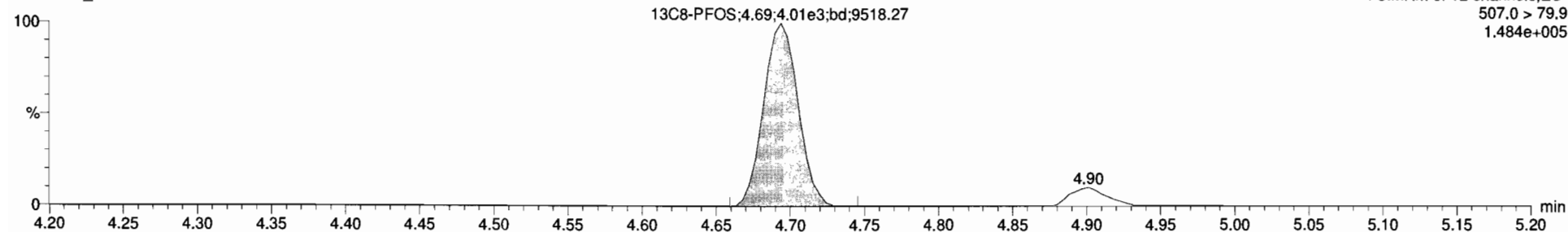


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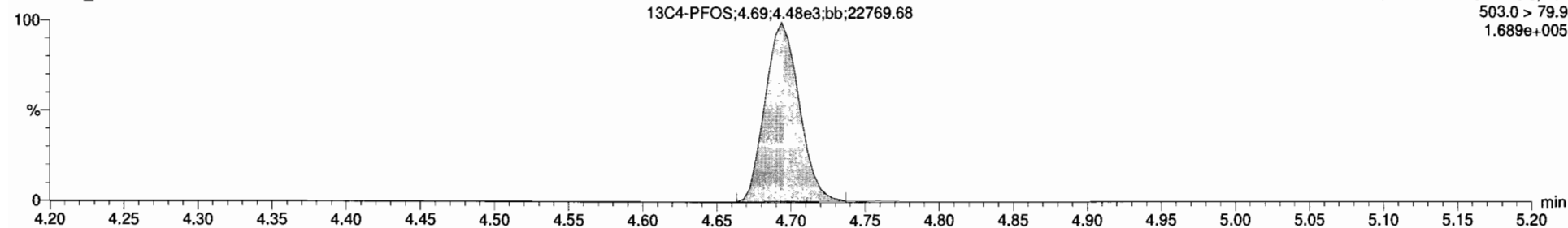
13C8-PFOS

170305G1_11



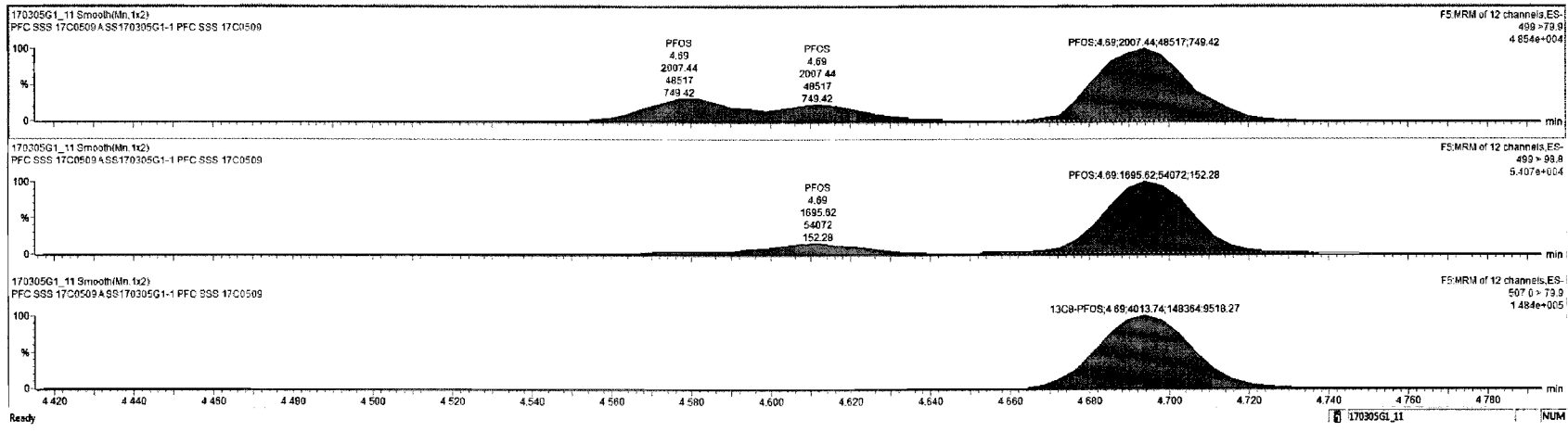
13C4-PFOS

170305G1_11





Name	Conc.	DL	%Rec	EMPC	Abn Resp	RRR	RT	#	SI	RA	YN	RRP	Acq Date	Acq Time	1* Chr/Node	ID	Sample Text	Factor	SW	Cal File	MOD
1 PFBS	8.6989458	0.0000	87.0		1.087e4		3.03	1	7	0.388	YES	1.001	05-Mar-17	14:39:40	24.076	SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
2 PFHxA	10.037596	0.0000	100.4		2.523e4		3.91	2	0			1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	YES
3 PFHxS	9.3329736	0.0000	83.3		9.941e3		4.05	3	3			1.001	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	YES
4 PFDA	10.865712	0.0000	108.7		2.256e4		4.31	4	10			1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	YES
5 PFNA	10.042823	0.0000	100.4		1.279e4		4.63	5	11			1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	YES
6 PFOS	11.719535	9.122	117.2		2.907e3		4.69	6	12			1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	YES
7 13C3-PFBS	13.351258	0.00517	106.8		6.541e3	0.410	3.03	7	14			0.889	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
8 13C4-PFHxA	13.214482	0.00629	105.7		1.734e4	1.095	3.91	8	14			0.971	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
9 16O2-PFHxS	12.648532	0.00461	101.2		6.564e3	0.434	4.02	9	14			0.999	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
10 13C2-PFDA	11.781296	0.00247	94.1		3.201e4	4.608	4.31	10	15			1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
11 13C5-PFNA	12.468185	0.00143	99.9		5.797e3	0.867	4.63	11	16			1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
12 13C4-PFOS	11.640781	0.00302	95.4		4.014e3	0.358	4.69	12	17			1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
13 13C5-PFHxA	12.509000	0.00851	100.0		2.890e4	1.000	3.41	13	13			0.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
14 13C3-PFHxS	12.509000	0.00393	100.0		1.494e4	1.000	4.03	14	14			0.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
15 13C8-PFDA	12.509000	0.000376	100.0		7.382e3	1.000	4.31	15	15			0.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
16 13C9-PFNA	12.509000	0.00140	100.0		6.692e3	1.000	4.63	16	16			0.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
17 13C4-PFOS	12.509000	0.00137	100.0		4.482e3	1.000	4.69	17	17			0.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
18 Total PFBS	8.6989458							18					05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
19 Total PFHxS	11.119483							19					05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
20 Total PFDA	10.865712							20					05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO
21 Total PFOS	15.801081	0.122						21					05-Mar-17	14:39:40		SS170305G	PFC SSS 17C05...	1.0	1.00	C18_V...	NO



Results

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	Percent_Moisture	Percent_Lipid	Chem_Name
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	16:51:00	1700296-01	1	-999			Perfluorobutanesulfonic acid (PFBS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	16:51:00	1700296-01	1	-999			Perfluorooctanoic acid (PFOA)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	16:51:00	1700296-01	1	-999			Perfluorooctane Sulfonate (PFOS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	16:51:00	1700296-01	1	-999			13C3-PFBS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	16:51:00	1700296-01	1	-999			13C2-PFOA
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	16:51:00	1700296-01	1	-999			13C8-PFOS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	17:03:00	1700296-02	1	-999			Perfluorobutanesulfonic acid (PFBS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	17:03:00	1700296-02	1	-999			Perfluorooctanoic acid (PFOA)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	17:03:00	1700296-02	1	-999			Perfluorooctane Sulfonate (PFOS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	17:03:00	1700296-02	1	-999			13C3-PFBS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	17:03:00	1700296-02	1	-999			13C2-PFOA
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	17:03:00	1700296-02	1	-999			13C8-PFOS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	17:16:00	1700296-03	1	-999			Perfluorobutanesulfonic acid (PFBS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	17:16:00	1700296-03	1	-999			Perfluorooctanoic acid (PFOA)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	17:16:00	1700296-03	1	-999			Perfluorooctane Sulfonate (PFOS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	17:16:00	1700296-03	1	-999			13C3-PFBS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	17:16:00	1700296-03	1	-999			13C2-PFOA
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	17:16:00	1700296-03	1	-999			13C8-PFOS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	17:28:00	1700296-04	1	-999			Perfluorobutanesulfonic acid (PFBS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	17:28:00	1700296-04	1	-999			Perfluorooctanoic acid (PFOA)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	17:28:00	1700296-04	1	-999			Perfluorooctane Sulfonate (PFOS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	17:28:00	1700296-04	1	-999			13C3-PFBS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	17:28:00	1700296-04	1	-999			13C2-PFOA
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	17:28:00	1700296-04	1	-999			13C8-PFOS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	17:41:00	1700296-05	1	-999			Perfluorobutanesulfonic acid (PFBS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	17:41:00	1700296-05	1	-999			Perfluorooctanoic acid (PFOA)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	17:41:00	1700296-05	1	-999			Perfluorooctane Sulfonate (PFOS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	17:41:00	1700296-05	1	-999			13C3-PFBS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	17:41:00	1700296-05	1	-999			13C2-PFOA
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	17:41:00	1700296-05	1	-999			13C8-PFOS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	17:53:00	1700296-06	1	-999			Perfluorobutanesulfonic acid (PFBS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	17:53:00	1700296-06	1	-999			Perfluorooctanoic acid (PFOA)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	17:53:00	1700296-06	1	-999			Perfluorooctane Sulfonate (PFOS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	17:53:00	1700296-06	1	-999			13C3-PFBS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	17:53:00	1700296-06	1	-999			13C2-PFOA
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	17:53:00	1700296-06	1	-999			13C8-PFOS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	18:06:00	1700296-07	1	-999			Perfluorobutanesulfonic acid (PFBS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	18:06:00	1700296-07	1	-999			Perfluorooctanoic acid (PFOA)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	18:06:00	1700296-07	1	-999			Perfluorooctane Sulfonate (PFOS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	18:06:00	1700296-07	1	-999			13C3-PFBS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	18:06:00	1700296-07	1	-999			13C2-PFOA
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	18:06:00	1700296-07	1	-999			13C8-PFOS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	18:18:00	1700296-08	1	-999			Perfluorobutanesulfonic acid (PFBS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	18:18:00	1700296-08	1	-999			Perfluorooctanoic acid (PFOA)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	18:18:00	1700296-08	1	-999			Perfluorooctane Sulfonate (PFOS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	18:18:00	1700296-08	1	-999			13C3-PFBS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	18:18:00	1700296-08	1	-999			13C2-PFOA
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	18:18:00	1700296-08	1	-999			13C8-PFOS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	16:38:00	B7C0034-BLK1	1	-999			Perfluorobutanesulfonic acid (PFBS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	16:38:00	B7C0034-BLK1	1	-999			Perfluorooctanoic acid (PFOA)

Results

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	GC_Column_Type
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	375-73-5		3.91	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	335-67-1		1.95	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	1763-23-1		0.879	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	13C3-PFBS		117	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	13C2-PFOA		91.9	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	13C8-PFOS		110	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	375-73-5		4.13	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	335-67-1		2.07	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	1763-23-1		0.930	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	13C3-PFBS		105	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	13C2-PFOA		81.9	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	13C8-PFOS		101	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	375-73-5		4.39	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	335-67-1		2.19	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	1763-23-1		0.987	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	13C3-PFBS		112	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	13C2-PFOA		91.0	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	13C8-PFOS		123	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	375-73-5		4.03	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	335-67-1		2.02	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	1763-23-1		0.907	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	13C3-PFBS		101	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	13C2-PFOA		89.1	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	13C8-PFOS		107	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	375-73-5		111	NG_L			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	335-67-1		166	NG_L			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	1763-23-1		0.898	NG_L	J		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	13C3-PFBS		95.5	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	13C2-PFOA		95.4	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	13C8-PFOS		122	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	375-73-5		4.07	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	335-67-1		2.03	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	1763-23-1		0.915	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	13C3-PFBS		101	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	13C2-PFOA		89.4	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	13C8-PFOS		119	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	375-73-5		3.91	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	335-67-1		1.95	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	1763-23-1		0.844	NG_L	J		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	13C3-PFBS		112	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	13C2-PFOA		90.0	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	13C8-PFOS		124	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	375-73-5		3.91	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	335-67-1		1.95	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	1763-23-1		0.879	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	13C3-PFBS		110	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	13C2-PFOA		102	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	13C8-PFOS		114	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	375-73-5		4.00	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	335-67-1		2.00	NG_L	U		PR

Results

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	Analysis_Result_Type	Result_Narrative	QC_Control_Limit_Code	QC_Accuracy_Upper	QC_Accuracy_Lower	Control_Limit_Date
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	TRG					

Results

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	QC_Narrative	MDL	Detection_Limit	QSM_Version	DL	LOD	LOQ	SDG	Analysis_Batch	Validator_Name	Val_Date
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317				5.0	1.74	3.91	7.79	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317				5.0	0.634	1.95	7.79	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317				5.0	0.786	0.879	7.79	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08M-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317				5.0	1.85	4.13	8.28	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317				5.0	0.674	2.07	8.28	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317				5.0	0.836	0.930	8.28	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB12-030317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317				5.0	1.97	4.39	8.81	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317				5.0	0.717	2.19	8.81	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317				5.0	0.889	0.987	8.81	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07S-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417				5.0	1.81	4.03	8.08	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417				5.0	0.657	2.02	8.08	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417				5.0	0.815	0.907	8.08	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB13-030417				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317				5.0	1.82	4.07	8.14	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317				5.0	0.662	2.03	8.14	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317				5.0	0.821	0.915	8.14	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW14M-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317				5.0	1.81	4.07	8.11	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317				5.0	0.660	2.03	8.11	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317				5.0	0.818	0.915	8.11	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW13S-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317				5.0	1.75	3.91	7.80	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317				5.0	0.635	1.95	7.80	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317				5.0	0.787	0.879	7.80	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW07M-0317				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417				5.0	1.75	3.91	7.82	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417				5.0	0.636	1.95	7.82	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417				5.0	0.789	0.879	7.82	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB14-030417				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank				5.0	1.79	4.00	8.00	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank				5.0	0.651	2.00	8.00	1700296	S7C0021		

Results

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	CH2M_Code	Analysis_Group	Analytical_Method	PRC_Code	Lab_Code	Lab_Name
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.

Results

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	Leachate_Method	Sample_Basis	Extraction_Method	Result_Type	Lab_QC_Type	Sample_Medium	QC_Level
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	NONE	WET	METHOD	000	BLK	W	4
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	NONE	WET	METHOD	000	BLK	W	4
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	NONE	WET	METHOD	000	BLK	W	4
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	NONE	WET	METHOD	000	BLK	W	4
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONE	WET	METHOD	000	BS	W	4
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONE	WET	METHOD	000	BS	W	4
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONE	WET	METHOD	000	BS	W	4
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONE	WET	METHOD	000	BS	W	4
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONE	WET	METHOD	000	BS	W	4
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONE	WET	METHOD	000	BS	W	4

Results

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	DateTime_Collected	Date_Received	Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	03/08/2017 08:40	03/08/2017			20170308	08:40:00	20170309
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	03/08/2017 08:40	03/08/2017			20170308	08:40:00	20170309
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	03/08/2017 08:40	03/08/2017			20170308	08:40:00	20170309
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	03/08/2017 08:40	03/08/2017			20170308	08:40:00	20170309
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	03/08/2017 08:40	03/08/2017			20170308	08:40:00	20170309
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	03/08/2017 08:40	03/08/2017			20170308	08:40:00	20170309
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	03/08/2017 08:40	03/08/2017			20170308	08:40:00	20170309
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	03/08/2017 08:40	03/08/2017			20170308	08:40:00	20170309
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	03/08/2017 08:40	03/08/2017			20170308	08:40:00	20170309
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	03/08/2017 08:40	03/08/2017			20170308	08:40:00	20170309

Results

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	Percent_Moisture	Percent_Lipid	Chem_Name
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	16:38:00	B7C0034-BLK1	1	-999			Perfluorooctane Sulfonate (PFOS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	16:38:00	B7C0034-BLK1	1	-999			13C3-PFBS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	16:38:00	B7C0034-BLK1	1	-999			13C2-PFOA
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	16:38:00	B7C0034-BLK1	1	-999			13C8-PFOS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	16:13:00	B7C0034-BS1	1	-999			Perfluorobutanesulfonic acid (PFBS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	16:13:00	B7C0034-BS1	1	-999			Perfluorooctanoic acid (PFOA)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	16:13:00	B7C0034-BS1	1	-999			Perfluorooctane Sulfonate (PFOS)
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	16:13:00	B7C0034-BS1	1	-999			13C3-PFBS
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	16:13:00	B7C0034-BS1	1	-999			13C2-PFOA
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	16:13:00	B7C0034-BS1	1	-999			13C8-PFOS

Results

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	GC_Column_Type
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	1763-23-1		0.900	NG_L	U		PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	13C3-PFBS		127	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	13C2-PFOA		89.3	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	13C8-PFOS		118	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	375-73-5		81.9	NG_L			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	335-67-1		86.5	NG_L			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	1763-23-1		88.6	NG_L			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	13C3-PFBS		107	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	13C2-PFOA		81.7	PCT_REC			PR
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	13C8-PFOS		108	PCT_REC			PR

Results

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	Analysis_Result_Type	Result_Narrative	QC_Control_Limit_Code	QC_Accuracy_Upper	QC_Accuracy_Lower	Control_Limit_Date
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	TRG					
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	IS		SLSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	TRG		LSA	130	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	TRG		LSA	130	70	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	TRG		LSA	130	70	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	IS		LSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	IS		LSA	150	60	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	IS		LSA	150	60	

Results

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	QC_Narrative	MDL	Detection_Limit	QSM_Version	DL	LOD	LOQ	SDG	Analysis_Batch	Validator_Name	Val_Date
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank				5.0	0.807	0.900	8.00	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS				5.0	1.79	4.00	8.00	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS				5.0	0.651	2.00	8.00	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS				5.0	0.807	0.900	8.00	1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS				5.0				1700296	S7C0021		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS				5.0				1700296	S7C0021		

**DATA VALIDATION SUMMARY REPORT
COUPEVILLE, WASHINGTON**

Client: CH2M HILL, Inc., Corvallis, Oregon
 SDG: 1700296
 Laboratory: Vista Analytical Laboratory, El Dorado Hills, California
 Site: Coupeville, CTO-0008, Washington
 Date: March 24, 2017

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	WI-CV-GW08M-0317	1700296-01	Water
2	WI-CV-EB12-030317	1700296-02	Water
3	WI-CV-GW07S-0317	1700296-03	Water
4	WI-CV-EB13-030417	1700296-04	Water
5	WI-CV-GW14M-0317	1700296-05	Water
6	WI-CV-GW13S-0317	1700296-06	Water
7	WI-CV-GW07M-0317	1700296-07	Water
8	WI-CV-EB14-030417	1700296-08	Water

A full data validation was performed on the analytical data for five water samples and three aqueous equipment blank samples collected on March 3-4, 2017 by CH2M HILL at the Coupeville site in Washington. The samples were analyzed under the EPA Method “Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)”.

Specific method references are as follows:

Analysis
PFCs

Method References
USEPA Method 537 Modified

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM), Version 5.0 (July 2013) and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA “Contract Laboratories Program National Functional Guidelines for Superfund Organic Methods Data Review,” August 2014;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate recovery (%R)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Ongoing Precision and Recovery (OPR)
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

A full (Level IV) data validation was performed with this review including a recalculation of 10% of the detected results in the samples.

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

Perfluorinated Compounds (PFCs)

Data Completeness, Case Narrative & Custody Documentation

- The case narrative and chain-of-custody documentation were included in the data package as required. All criteria were met.

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

Initial Calibration

- All percent difference (%D) and/or correlation coefficients criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- The equipment blank samples were free of contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
WI-CV-EB12-030317	None - ND	-	-	-
WI-CV-EB13-030417	None - ND	-	-	-
WI-CV-EB14-030417	None - ND	-	-	-
WI-CV-FB01-030217 (SDG 1700293)	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- A MS/MSD sample was not collected.

Ongoing Precision and Recovery (OPR)

- The OPR samples exhibited acceptable percent recoveries (%R) values.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver
Nancy Weaver
Senior Chemist

Dated: 3/24/17

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Sample ID: WI-CV-GW08M-0317

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700296-01				
Project:	Navy Clean CTO-08	Sample Size:	0.128 L	QC Batch:	B7C0034				
Date Collected:	04-Mar-2017 12:00			Date Analyzed:	09-Mar-17 16:51				
Location:	MW-08M			Column:	BEH C18				
				Date Received:	07-Mar-2017 10:32				
				Date Extracted:	08-Mar-2017 8:40				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.74	3.91	7.79		IS 13C3-PFBS	117	60 - 150	
PFOA	ND	0.634	1.95	7.79		IS 13C2-PFOA	91.9	60 - 150	
PFOS	ND	0.786	0.879	7.79		IS 13C8-PFOS	110	60 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL

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

Only the linear isomer is reported for all other analytes

DL - Detection limit

RL - Reporting limit

ww 3/24/17

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Sample ID: WI-CV-EB12-030317		Modified EPA Method 537						
Client Data		Sample Data						
Name:	CH2M Hill	Matrix:	Groundwater					
Project:	Navy Clean CTO-08	Sample Size:	0.121 L					
Date Collected:	03-Mar-2017 17:15							
Location:	EB12							
		Laboratory Data						
		Lab Sample:	1700296-02					
		QC Batch:	B7C0034					
		Date Analyzed:	09-Mar-17 17:03					
		Column:	BEH C18					
		Date Received:	07-Mar-2017 10:32					
		Date Extracted:	08-Mar-2017 8:40					
Analyte	Conc. (ng/L)	DL	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.85	4.13	8.28	IS 13C3-PFBS	105	60 - 150	
PFOA	ND	0.674	2.07	8.28	IS 13C2-PFOA	81.9	60 - 150	
PFOS	ND	0.836	0.930	8.28	IS 13C8-PFOS	101	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

mw 3/24/17

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Sample ID: WI-CV-GW07S-0317		Modified EPA Method 537							
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700296-03				
Project:	Navy Clean CTO-08	Sample Size:	0.114 L	QC Batch:	B7C0034				
Date Collected:	04-Mar-2017 13:25			Date Analyzed:	09-Mar-17 17:16 Column: BEH C18				
Location:	MW-07S			Date Received:	07-Mar-2017 10:32				
				Date Extracted:	08-Mar-2017 8:40				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.97	4.39	8.81		IS 13C3-PFBS	112	60 - 150	
PFOA	ND	0.717	2.19	8.81		IS 13C2-PFOA	91.0	60 - 150	
PFOS	ND	0.889	0.987	8.81		IS 13C8-PFOS	123	60 - 150	

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

NW 3/24/17

Sample ID: WI-CV-EB13-030417				Modified EPA Method 537					
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700296-04	Date Received:	07-Mar-2017 10:32		
Project:	Navy Clean CTO-08	Sample Size:	0.124 L	QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40		
Date Collected:	04-Mar-2017 14:30			Date Analyzed:	09-Mar-17 17:28	Column:	BEH C18		
Location:	EB-13								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.81	4.03	8.08		IS 13C3-PFBS	101	60 - 150	
PFOA	ND	0.657	2.02	8.08		IS 13C2-PFOA	89.1	60 - 150	
PFOS	ND	0.815	0.907	8.08		IS 13C8-PFOS	107	60 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL

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

Only the linear isomer is reported for all other analytes

DL - Detection limit

RL - Reporting limit

new 31241.7

5

Sample ID: WI-CV-GW14M-0317		Modified EPA Method 537							
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700296-05				
Project:	Navy Clean CTO-08	Sample Size:	0.123 L	QC Batch:	B7C0034				
Date Collected:	04-Mar-2017 17:00			Date Analyzed:	09-Mar-17 17:41 Column: BEH C18				
Location:	MW-14M								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	111	1.82	4.07	8.14		IS 13C3-PFBS	95.5	60- 150	
PFOA	166	0.662	2.03	8.14		IS 13C2-PFOA	95.4	60- 150	
PFOS	0.898	0.821	0.915	8.14	J	IS 13C8-PFOS	122	60- 150	

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

MW 31241.7

6

Sample ID: WI-CV-GW13S-0317		Modified EPA Method 537							
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700296-06				
Project:	Navy Clean CTO-08	Sample Size:	0.123 L	QC Batch:	B7C0034				
Date Collected:	03-Mar-2017 17:05			Date Analyzed:	09-Mar-17 17:53 Column: BEH C18				
Location:	MW-13S								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.81	4.07	8.11		IS 13C3-PFBS	101	60 - 150	
PFOA	ND	0.660	2.03	8.11		IS 13C2-PFOA	89.4	60 - 150	
PFOS	ND	0.818	0.915	8.11		IS 13C8-PFOS	119	60 - 150	

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

MW3/24/17

7

Sample ID: WI-CV-GW07M-0317		Modified EPA Method 537							
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700296-07				
Project:	Navy Clean CTO-08	Sample Size:	0.128 L	QC Batch:	B7C0034				
Date Collected:	04-Mar-2017 17:15			Date Analyzed:	09-Mar-17 18:06				
Location:	MW-07M			Column:	BEH C18				
				Date Received:	07-Mar-2017 10:32				
				Date Extracted:	08-Mar-2017 8:40				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.75	3.91	7.80		IS 13C3-PFBS	112	60 - 150	
PFOA	ND	0.635	1.95	7.80		IS 13C2-PFOA	90.0	60 - 150	
PFOS	0.844	0.787	0.879	7.80	J	IS 13C8-PFOS	124	60 - 150	

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

W32417

Sample ID: WI-CV-EB14-030417				Modified EPA Method 537					
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700296-08	Date Received:	07-Mar-2017 10:32		
Project:	Navy Clean CTO-08	Sample Size:	0.128 L	QC Batch:	B7C0034	Date Extracted:	08-Mar-2017 8:40		
Date Collected:	04-Mar-2017 17:45			Date Analyzed:	09-Mar-17 18:18	Column:	BEH C18		
Location:	EB-14								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.75	3.91	7.82		IS 13C3-PFBS	110	60 - 150	
PFOA	ND	0.636	1.95	7.82		IS 13C2-PFOA	102	60 - 150	
PFOS	ND	0.789	0.879	7.82		IS 13C8-PFOS	114	60 - 150	

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

new 3/24/17

CV-MW11-M	2/26/17
Depth (ft bgs)	170.43
PFBS	7.66 U
PFOS	1.72 U
PFOA	3.83 U

CV-MW07-S	3/4/17
Depth (ft bgs)	145.02
PFBS	4.39 U
PFOS	0.987 U
PFOA	2.19 U

CV-MW07-M	3/4/17
Depth (ft bgs)	193.75
PFBS	3.91 U
PFOS	0.844 J
PFOA	1.95 U

CV-MW04-M	2/28/17
Depth (ft bgs)	159.05
PFBS	4.03 U
PFOS	0.907 U
PFOA	2.02 U

CV-MW04-S	3/1/17
Depth (ft bgs)	126.93
PFBS	3.91 U
PFOS	0.879 U
PFOA	1.95 U

CV-MW14-M	3/4/17
Depth (ft bgs)	176.34
PFBS	111
PFOS	0.898 J
PFOA	166

CV-MW03-D	2/27/17
Depth (ft bgs)	237.43
PFBS	3.91 U
PFOS	0.914 J
PFOA	1.95 U

CV-MW03-M	2/27/17
Depth (ft bgs)	160.35
PFBS	3.88 U
PFOS	0.872 U
PFOA	1.94 U

CV-MW13-S	3/3/17
Depth (ft bgs)	114.98
PFBS	4.07 U
PFOS	0.915 U
PFOA	2.03 U

CV-MW13-M	2/22/17
Depth (ft bgs)	187.76
PFBS	139
PFOS	0.872 U
PFOA	20.4

CV-MW09-M	2/23/17
Depth (ft bgs)	197.33
PFBS	11.2
PFOS	0.915 U
PFOA	2.03 U

CV-MW09-S	NA
Depth (ft bgs)	110.92
PFBS	NS
PFOS	NS
PFOA	NS

CV-MW11-S	2/26/17
Depth (ft bgs)	140.43
PFBS	3.91 U
PFOS	1.0 J
PFOA	1.95 U

Building 11	9/19/16
Depth (ft bgs)	162
PFBS	10 U
PFOS	10 U
PFOA	3 U

Building 2807	9/19/16
Depth (ft bgs)	178
PFBS	110
PFOS	10 U
PFOA	17.5 J

CV-MW08-S	3/2/17
Depth (ft bgs)	131.26
PFBS	3.85 U
PFOS	0.865 U
PFOA	1.92 U

CV-MW01-M	2/28/17
Depth (ft bgs)	163.36
PFBS	3.94 U
PFOS	0.886 U
PFOA	1.97 U

CV-MW01-D	2/28/17
Depth (ft bgs)	217.42
PFBS	4 U
PFOS	0.9 U
PFOA	2 U

CV-MW02-S	3/1/17
Depth (ft bgs)	106.86
PFBS	332 D
PFOS	54.7
PFOA	571

CV-MW02-M	3/1/17
Depth (ft bgs)	167.96
PFBS	3.88 U
PFOS	0.872 U
PFOA	1.94 U

CV-MW05-S	2/24/17
Depth (ft bgs)	124.56
PFBS	12.9
PFOS	0.922 U
PFOA	9.87

CV-MW05-M	2/23/17
Depth (ft bgs)	175.35
PFBS	473
PFOS	3.26 J
PFOA	1190

CV-MW06-S	2/22/17
Depth (ft bgs)	140.43
PFBS	3.97 U
PFOS	0.893 U
PFOA	1.98 U

CV-MW06-M	2/21/17
Depth (ft bgs)	189.51
PFBS	3.91 U
PFOS	0.879 U
PFOA	1.95 U

CV-MW10-D	2/20/17
Depth (ft bgs)	206.67
PFBS	3.85 U
PFOS	0.865 U
PFOA	1.92 U

CV-MW10-S	2/22/17
Depth (ft bgs)	159.45
PFBS	3.07 J
PFOS	0.938 U
PFOA	2.08 U

CV-MW08-M	3/4/17
Depth (ft bgs)	165.21
PFBS	3.91 U
PFOS	0.879 U
PFOA	1.95 U

CV-MW12-S	NA
Depth (ft bgs)	106.92
PFBS	NS
PFOS	NS
PFOA	NS

CV-MW12-D	3/1/17
Depth (ft bgs)	198.03
PFBS	3.97 U
PFOS	0.893 U
PFOA	1.98 U

Notes
 PFBS - Perfluorobutanesulfonic acid
 PFOS - Perfluorooctane Sulfonate
 PFOA - Perfluorooctanoic acid
 LHA - lifetime health advisory
 units - nanograms per liter (ng/L)
 ft bgs - feet below ground surface
 NS - not sampled
 J - analyte detected, concentration is estimated
 U - not detected
 D - diluted sample
Bold indicates detection
 Shaded text indicates exceedance of USEPA LHA
 Samples were not collected from CV-GW09S and CV-GW12S because the wells were dry at the time of sampling.
 Samples collected from the wells within Buildings 2807 and 11 were analyzed by ALS-Kelso using Method 537 for drinking water.

- Legend**
- Base Supply Well
 - Monitoring well with no exceedance of LHA
 - Monitoring well with LHA exceedance
 - No detections of PFAS
 - Not Sampled
 - Direction of Middle Zone Groundwater Flow
 - Direction of Deep Zone Groundwater Flow
 - Base Boundary

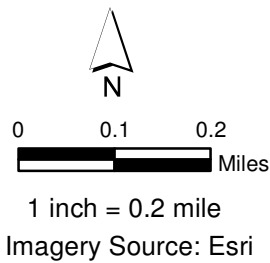


Figure 10
 Detections of PFAS in Groundwater
 Outlying Landing Field Coupeville
 Coupeville, Washington
 For Official Use Only

	LHA
PFBS	--
PFOS	70
PFOA	70