



**Surface Water Sample Results,
Level 4 Laboratory Report, Electronic Data
Deliverable, Data Validation Report, Sample Location
Report, SDG 20-1298**

NRL

Chesapeake Bay Detachment, MD

October 2021

**CTO-4532: NRL Chesapeake Bay Detachment
(NRL-CBD) Site 10
Project No 100142218
PFAS by DoD QSM 5.3 Table B-15**

AQ, SW

Batch 20-1298

Package DP-20-1178

Submitted to:

CH2M

5701 Cleveland Street

Virginia Beach, VA 23462 USA

Submitted by:

Battelle Norwell Operations
141 Longwater Drive Suite 202
Norwell, MA 02061

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**CTO-4532: NRL Chesapeake Bay Detachment
(NRL-CBD) Site 10
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PFAS by DoD QSM 5.3 Table B-15
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Submitted to:
CH2M
5701 Cleveland Street
Virginia Beach, VA 23462 USA

NELAP Accreditation Number: E87856 (Florida Department of Health)

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

Analyst Approval:		Digitally signed by Denise Schumitz Date: 2020.11.04 10:45:06 -05'00'
QC Chemist Approval:		Digitally signed by Carla Devine Date: 2020.11.09 21:54:09 -05'00'
Project Manager Approval:		Digitally signed by Jonathan Thorn Date: 2020.11.10 07:50:43 -05'00'

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CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No 100142218

PFAS by DoD QSM 5.3 Table B-15

AQ, SW

Batch 20-1298


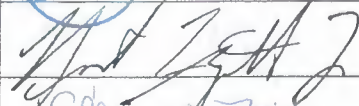






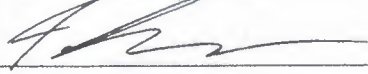





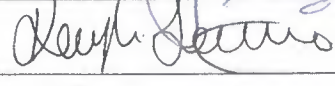
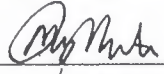
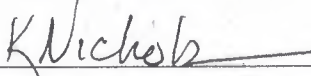

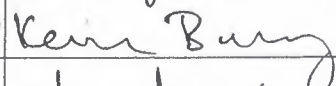

Package DP-20-1178

1	<i>Work Plan</i> Laboratory Work Plan, Addendums To Work Plan, Memos From Project Manager, Special Instructions, Chain-of-Custody Reports.	1
2	<i>Tables</i> Analytical Data Tables, Qualifier Definitions.	22
3	<i>Miscellaneous Documentation</i> Case Narrative, Miscellaneous Documentation Form, Quality Control Summary, Example Calculations, Internal Standard Recovery Report, Retention Time Window Report.	70
4	<i>Sample Preparation Records</i> Sample Preparation Records, Dilution Worksheets, Standard Preparation Records, Certificates Of Analysis, GPC Check Report.	195
5	<i>Analytical Calibrations</i> Analytical Sequence, Analytical Method, Tune Report, Initial Calibration, Pesticide Degradation Report, RF Summary, Calibration Verifications, Independent Calibration Verification Check.	226
6	<i>Analytical Data</i> Raw Data Quantification Reports.	347
7	<i>Chromatograms</i> Sample And Standard Chromatograms.	452
8	<i>Unused Data</i>	666

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Master Signature Page

Name (Printed)	Signature	Initials	Date
Jonathan Thom		JRT	1/9/2020
Robert Lizotte, Jr.		BL	1.9.2020
Elynn M. Fitch		EF	1/9/2020
Carla Devine		CRD	1/9/2020
Dennis Schumitz		DS	1/9/2020
Lauren Griffith		LMG	1.9.2020
Carrie P. McLarthy		CPM	1/9/2020
Rich Restucci		RR	1/9/2020
Sam Guimaraes		SAG	1/9/2020
Jordan Tower		JT	1/9/2020
Christie Usher		CU	1/9/2020
Kevin McInerney		KM	1/14/2020
Matt Schumitz		MDS	1/14/2020
Weidong Li		W.L	1/14/2020
Kayla Lamarre		KAL	1/14/2020
MUNAZ MUNTASIR		MM	01/14/2020
Kristen Nichols		KN	01/14/2020
Kelsey Harnden		KH	01/30/2020
Kevin Bailey		KB	1/30/2020
Stephanie Schultz		SAS	1/30/2020

Sample Summary

Client: CH2M
 SDG: 20-1298
 Project/Site: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 CTO: 4532

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Receipt Date
DA891PB-FS	Procedural Blank	WATER	10/21/2020	10/21/2020
DA892LCS-FS	Laboratory Control Sample	WATER	10/21/2020	10/21/2020
G1644-FS	CBD-AOA-SW07-1020	SW	10/13/2020	10/14/2020
G1645-FS	CBD-AOA-SW05-1020	SW	10/13/2020	10/14/2020
G1646-FS	CBD-AOA-SW03-1020	SW	10/13/2020	10/14/2020
G1647-FS	CBD-AOA-SW04-1020	SW	10/13/2020	10/14/2020
G1651-FS	CBD-AOA-SW02-1020	SW	10/13/2020	10/14/2020
G1652-FS	CBD-AOA-SW02P-1020	SW	10/13/2020	10/14/2020
G1654-FS	CBD-AOA-SW01-1020	SW	10/13/2020	10/14/2020
G1655-FS	CBD-AOA-FB03-101320	AQ	10/13/2020	10/14/2020
G1656-FS	CBD-AOA-EB01-101320-SW	AQ	10/13/2020	10/14/2020
G1657-FS	CBD-AOA-EB01-101320-SD	AQ	10/13/2020	10/14/2020
G1658-FS	CBD-AOA-SW08-1020	SW	10/13/2020	10/14/2020
G1661-FS	CBD-AOA-SW06-1020	SW	10/13/2020	10/14/2020
G1663-FS	CBD-AOA-SW11-1020	SW	10/13/2020	10/14/2020
G1664-FS	CBD-AOA-SW11P-1020	SW	10/13/2020	10/14/2020
G1665-FS	CBD-AOA-SW10-1020	SW	10/13/2020	10/14/2020
G1666MS-FS	CBD-AOA-SW10-1020-MS	SW	10/13/2020	10/14/2020
G1667MSD-FS	CBD-AOA-SW10-1020-SD	SW	10/13/2020	10/14/2020
G1668-FS	CBD-AOA-SW09-1020	SW	10/13/2020	10/14/2020

Work Plan



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WORK/QUALITY ASSURANCE PROJECT PLAN

1.0 GENERAL PROJECT INFORMATION

Project Title: CTO-4532: PFAS in Water
Project Number: 100142218
Client: CH2M
 2411 Dulles Corner Park
 Suite 500
 Herdon, VA 20171
 USA

Client Contact Information: Michael Zamboni
 Project Chemist
 (703) 376-5301(V)
 NA
 Michael.Zamboni@jacobs.com

Effective Date of QAPP: 10/1/2020
Version Number: 100142218(L)-02
Project Manager: Thorn, Jonathan
Laboratory Task Manager: Thorn, Jonathan
Deliverable Due Date: 10/29/2020

2.0 SCOPE OF WORK

Overview: Analysis of non-potable water for PFAS.
Matrix: Water

2.1 TECHNICAL APPROACH

2.1.1 Sample Receipt, Storage, and Handling

The list of samples for this project plan are presented in Attachment 1.

Storage Directions: Store samples refrigerated prior to extraction.
Sub_Sampling: None
Procedures: NA
Contact: NA
Comment: None.
Archiving: Store excess samples for six months after delivery of final data.
Disposal: Dispose of samples in the appropriate waste stream.



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WORK/QUALITY ASSURANCE PROJECT PLAN

2.1.2 Sample Preparation

IDW samples should be batched separately from field samples.

Samples Expected:	Samples Per Batch:	Batches Expected:
51	20	3

Batch quality control samples are defined in Table 1.

Target samples are presented in Attachment 1.

Table 1: Quality Control Samples

Type:	Description:	Count:	Rgt:	Reference:	Comment:
PB	Laboratory control reagent blank.	1 per batch	--	NA	
LCS	Laboratory Control Sample	1 per batch	No	NA	
MS	Spiked field sample for determining method accuracy in the presence of matrix.	1 per batch	--	NA	MS/MSD identified on COC with suffix "-MS" and "-SD".
MSD	Spiked field sample for determining method accuracy and precision in the presence of matrix.	1 per batch	--	NA	

2.1.3 Extraction/Preparation

2.1.3.1 Extraction

SOP No.-Rev:	5-370-11
SOP Title:	<i>Extraction of Poly and Perfluoroalkyl Substances from Environmental Matrices</i>
Sample Size:	250 ml
SIS and LCS/MS Compounds:	Defined in Table 2.
Deviations:	None
Comments:	None

Table 2: SIS and LCS/MS Spiking Level

Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PFAS - DoD Low Level Labelled Extracted Internal Standard (SIS)	LC22 SIS	~ 1.13 - 1.25 ng	125 uL	NA



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Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PFAS - DoD Second Source LCS/MS solution	LD11 LCS/MS	~ 7.5 ng	75 uL	Vary spikes 25 (LCS only), 50, 75, 100, 125 µL

2.1.3.2 Cleanup

None.

RIS spiking levels are presented in Table 3.

Extract PIV (uL): 1000

Table 3: RIS Spiking Level

Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PFAS - DoD Internal Standard Spiking Solution	LD33 RIS	~ 1.25 ng	125 uL	NA

2.1.4 Instrumental Analysis

The list of analytes along with data quality criteria are presented in Attachment 2.

- 1) SOP_No-Rev: **5-369-08**
- SOP_Title: *Analysis of Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS)*
- Deviations: None.
- Comments: None.

2.2. DELIVERABLES

Deliverables Due:	10/29/2020
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LIMS Reports:	No
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Histograms:	No
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Excel Tables:	No
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EICs:	No
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Chromatograms:	No
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EDDs:	No
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WORK/QUALITY ASSURANCE PROJECT PLAN

Comments:

- 28-day TAT for most samples
- Samples marked rush will be 7-day TAT
- LIV validation data packages
- CH2M EDD file

3.0 QUALITY

The Method Quality Objectives are defined in Attachment 3.

4.0 ORGANIZATION AND COMMUNICATION

4.1 ORGANIZATION

The project team is defined in Table 4. Supervisors may make substitutions with Project Manager concurrence.

Table 4: Project Team and Roles

Staff Member	Role	Comment
Jonathan R. Thorn	Project Manager	NA
Ryan P. Kelly	Sample Preparation	NA
Stephanie A. Schultz	LC-MS/MS Analysis	NA
Matt D. Schumitz	Sample Custody	NA
Carla R. Devine	Quality Control Officer	NA
Zachary J. Willenberg	Quality Assurance Officer	NA

4.2 COMMUNICATION

A kick-off meeting will be held to discuss project scope and goals.

5.0 SCHEDULE

The project schedule is presented in Table 5.

Table 5. Schedule of Laboratory Activities

Activity:	Start Date:	End Date:	TAT (days):	Comment:
Sample Receipt	10/01/2020	10/01/2020	0	NA
Sample Preparation	10/01/2020	10/12/2020	11	NA
Instrument Analysis	10/12/2020	10/23/2020	11	NA
Quality Control Review	10/23/2020	10/27/2020	4	NA



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WORK/QUALITY ASSURANCE PROJECT PLAN

Activity:	Start Date:	End Date:	TAT (days):	Comment:
Quality Assurance Review	10/27/2020	10/29/2020	2	NA

6.0 BUDGET

The labor budget for the analytical task is presented in Table 6.

Table 6. Labor Budget (Laboratory Analytical Task)

Labor Activity:	Hours/ Batch:	Batches:	Total Hours:	Comment:
Sample Receipt	4	3	12	NA
Sample Preparation	9	3	27	NA
Instrument Analysis	10	3	30	NA
Quality Control Review	3	3	9	NA
Quality Assurance Review	1	3	3	NA

7.0 STAFF DEVELOPMENT

None anticipated.



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 1: Target Samples

Shipment: SHP-201005-02
Status: Pending
Description: Site 10 SI
Range: G1071-G1072
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	G1071	CBD-AOA-EB01-100220-SO	10/02/2020 2:10 pm	AQ	R0119	(NA)		
2	G1072	CBD-AOA-FB01-100220	10/02/2020 2:00 pm	AQ	R0119	(NA)		

Shipment: SHP-201012-02
Status: Pending
Description: Site 10
Range: G1524-G1525
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	G1524	CBD-AOA-FB02-100920	10/09/2020 1:00 pm	AQ	R0119	(NA)		
2	G1525	CBD-AOA-EB02-100920-SO	10/09/2020 1:10 pm	AQ	R0119	(NA)		

Shipment: SHP-201014-03
Status: Pending
Description: Site 10 SI
Range: G1644-G1668
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	G1644	CBD-AOA-SW07-1020	10/13/2020 10:00 am	SW	R0119	(NA)		
2	G1645	CBD-AOA-SW05-1020	10/13/2020 10:20 am	SW	R0119	(NA)		
3	G1646	CBD-AOA-SW03-1020	10/13/2020 10:35 am	SW	R0119	(NA)		
4	G1647	CBD-AOA-SW04-1020	10/13/2020 10:40 am	SW	R0119	(NA)		
5	G1651	CBD-AOA-SW02-1020	10/13/2020 11:30 am	SW	R0119	(NA)		
6	G1652	CBD-AOA-SW02P-1020	10/13/2020 11:35 am	SW	R0119	(NA)		
7	G1654	CBD-AOA-SW01-1020	10/13/2020 12:00 pm	SW	R0119	(NA)		
8	G1655	CBD-AOA-FB03-101320	10/13/2020 12:20 pm	AQ	R0119	(NA)		
9	G1656	CBD-AOA-EB01-101320-SW	10/13/2020 12:25 pm	AQ	R0119	(NA)		
10	G1657	CBD-AOA-EB01-101320-SD	10/13/2020 12:30 pm	AQ	R0119	(NA)		
11	G1658	CBD-AOA-SW08-1020	10/13/2020 1:00 pm	SW	R0119	(NA)		
12	G1661	CBD-AOA-SW06-1020	10/13/2020 1:25 pm	SW	R0119	(NA)		
13	G1663	CBD-AOA-SW11-1020	10/13/2020 2:00 pm	SW	R0119	(NA)		
14	G1664	CBD-AOA-SW11P-1020	10/13/2020 2:05 pm	SW	R0119	(NA)		
15	G1665	CBD-AOA-SW10-1020	10/13/2020 2:10 pm	SW	R0119	(NA)		
16	G1666	CBD-AOA-SW10-1020-MS	10/13/2020 2:10 pm	SW	R0119	(NA)		



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Shipment: SHP-201014-03
Status: Pending
Description: Site 10 SI
Range: G1644-G1668
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
17	G1667	CBD-AOA-SW10-1020-SD	10/13/2020 2:10 pm	SW	R0119	(NA)		
18	G1668	CBD-AOA-SW09-1020	10/13/2020 2:25 pm	SW	R0119	(NA)		

Shipment: SHP-201016-02
Status: Pending
Description: Site 10 SI
Range: G1696-G1702
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	G1696	CBD-HVG-GW10-1020	10/14/2020 3:15 pm	GW	R0119	(NA)		
2	G1697	CBD-HVG-GW09-1020	10/14/2020 3:30 pm	GW	R0119	(NA)		
3	G1698	CBD-EB01-101420-GW	10/14/2020 3:40 pm	AQ	R0119	(NA)		
4	G1699	CBD-AOA-MW10-1020	10/15/2020 10:25 am	GW	R0119	(NA)		
5	G1700	CBD-BKG-MW03-1020	10/15/2020 2:00 pm	GW	R0119	(NA)		
6	G1701	CBD-SO4-MW01-1020	10/15/2020 3:25 pm	GW	R0119	(NA)		
7	G1702	CBD-SO4-MW01P-1020	10/15/2020 3:30 pm	GW	R0119	(NA)		

Shipment: SHP-201019-01
Status: Pending
Description: Site 10 SI
Range: G1707-G1709
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	G1707	CBD-AOA-MW15-1020	10/16/2020 10:40 am	GW	R0119	(NA)		
2	G1708	CBD-AOA-MW16-1020	10/16/2020 12:05 pm	GW	R0119	(NA)		MS/MSD
3	G1709	CBD-FB04-101620	10/16/2020 12:10 pm	GW	R0119	(NA)		

Shipment: SHP-201020-04
Status: Pending
Description: Site 10 SI
Range: G1765-G1775
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	G1765	CBD-AOA-MW04-1020	10/19/2020 10:20 am	GW	R0119	(NA)		
2	G1766	CBD-AOA-MW01-1020	10/19/2020 10:35 am	GW	R0119	(NA)		
3	G1767	CBD-AOA-MW01P-1020	10/19/2020 10:40 am	GW	R0119	(NA)		
4	G1768	CBD-AOA-MW03-1020	10/19/2020 11:35 am	GW	R0119	(NA)		



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Shipment: SHP-201020-04
Status: Pending
Description: Site 10 SI
Range: G1765-G1775
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
5	G1769	CBD-AOA-MW08-1020	10/19/2020 12:55 pm	GW	R0119	(NA)		
6	G1770	CBD-AOA-MW08-1020-MS	10/19/2020 12:55 pm	GW	R0119	(NA)		
7	G1771	CBD-AOA-MW08-1020-SD	10/19/2020 12:55 pm	GW	R0119	(NA)		
8	G1772	CBD-AOA-MW02-1020	10/19/2020 1:10 pm	GW	R0119	(NA)		
9	G1773	CBD-AOA-MW18-1020	10/19/2020 2:35 pm	GW	R0119	(NA)		
10	G1774	CBD-AOA-EB01-101920-GW	10/19/2020 4:00 pm	AQ	R0119	(NA)		
11	G1775	CBD-SO3-MW01-1020	10/19/2020 3:20 pm	GW	R0119	(NA)		

Shipment: SHP-201022-01
Status: Pending
Description: Site 10 SI
Range: G1794-G1801
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	G1794	CBD-AOA-MW07-1020	10/20/2020 3:50 pm	GW	R0118	(NA)		
2	G1795	CBD-AOA-MW17-1020	10/20/2020 3:45 pm	GW	R0118	(NA)		
3	G1796	CBD-AOA-MW19-1020	10/20/2020 1:45 pm	GW	R0118	(NA)		
4	G1797	CBD-AOA-FB05-102020	10/20/2020 12:40 pm	AQ	R0118	(NA)		Field Blank - GW this week
5	G1798	CBD-AOA-EB01-102020-GW	10/20/2020 4:20 pm	AQ	R0118	(NA)		Equipment Blank - monsoon pump
6	G1799	CBD-BKG-MW01-1020	10/20/2020 2:20 pm	GW	R0118	(NA)		
7	G1800	CBD-BKG-MW02-1020	10/20/2020 3:25 pm	GW	R0118	(NA)		
8	G1801	CBD-SO3-MW02-1020	10/20/2020 12:00 pm	GW	R0118	(NA)		

Shipment: SHP-201022-02
Status: Pending
Description: Site 10 SI
Range: G1802-G1804
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	G1802	CBD-AOA-MW09-1020	10/21/2020 9:35 am	GW	R0119	(NA)		
2	G1803	CBD-AOA-MW05-1020	10/21/2020 10:25 am	GW	R0119	(NA)		
3	G1804	CBD-AOA-EB01-102120-GW	10/21/2020 10:35 am	AQ	R0119	(NA)		Equipment Blank - monsoon



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Shipment: SHP-201029-03
Status: Pending
Description: Site 10 SI
Range: G2203-G2212
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	G2203	CBD-AOA-MW06-1020	10/27/2020 10:00 am	GW	R0119	(NA)		
2	G2204	CBD-AOA-EB01-102720-GW	10/27/2020 10:10 am	AQ	R0119	(NA)		
3	G2205	CBD-AOA-MW12-1020	10/28/2020 1:45 pm	GW	R0119	(NA)		
4	G2206	CBD-AOA-MW11-1020	10/28/2020 3:30 pm	GW	R0119	(NA)		
5	G2207	CBD-AOA-MW11P-1020	10/28/2020 3:35 pm	GW	R0119	(NA)		
6	G2208	CBD-AOA-FB01-102820	10/28/2020 3:55 pm	AQ	R0119	(NA)		
7	G2209	CBD-AOA-EB01-102820-GW	10/28/2020 4:40 pm	AQ	R0119	(NA)		
8	G2210	CBD-AOA-MW14-1020	10/28/2020 4:35 pm	GW	R0119	(NA)		
9	G2211	CBD-AOA-MW13-1020	10/28/2020 5:10 pm	GW	R0119	(NA)		
10	G2212	CBD-AOA-IW01-102820	10/28/2020 5:30 pm	AQ	R0119	(NA)		



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name:	Master_369B
SOP Reference:	5-369 - Analysis of Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS)
Description:	PFAS by DoD QSM 5.3 Table B-15
Matrix:	L - Liquid Samples, like water or sea water, prepared and analyzed under the same class of detection limits.
Detection Limit Study:	5-369
Instrument:	LC-MS/MS
MQO Criteria	Universal_LC
Standard Report:	Standard Result Report

Method Specific Reporting		Holding Times (days)	Data Flags
Result Units:	ng/L	Unit Conversion: (none)	Sample: 14 DL_Flag: U
Weight Basis:	LIQUID	Result Format: Fixed Digits	Frozen: 14 RL_Flag: J
Standard Basis:	SIS	# of Figures/Digits: 2	Extract: 28 PB_Flag: B
Oil Weight Basis:	No	Oil Weight Source: Oil Weight	DIL_Flag: D
U-Value Substitution:	U-Flag=MD	Histograms: No	HT_Flag: T
ECD_Reporting:	No		

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
1	Perfluoro-n-hexanoic acid	PFHxA	T		13C5-PFHxA	No	No
2	Perfluoro-n-heptanoic Acid	PFHpA	T		13C4-PFHpA	No	No
3	Perfluoro-n-octanoic Acid	PFOA	T		13C8-PFOA	No	No
4	Perfluorononanoic Acid	PFNA	T		13C9-PFNA	No	No
5	Perfluoro-n-decanoic Acid	PFDA	T		13C6-PFDA	No	No
6	Perfluoro-n-undecanoic acid	PFUnA	T		13C7-PFUnA	No	No
7	Perfluoro-n-dodecanoic acid	PFDoA	T		13C2-PFDoA	No	No
8	Perfluoro-n-tridecanoic acid	PFTrDA	T		13C2-PFTrDA	No	No
9	Perfluoro-n-tetradecanoic acid	PFTeDA	T		13C2-PFTeDA	No	No
10	N-methylperfluoro-1-octanesulfonamidoacetic acid	NMeFOSAA	T		d3-MeFOSAA	No	No
11	N-ethylperfluoro-octanesulfonamidoacetic acid	NEtFOSAA	T		d5-EtFOSAA	No	No
12	Perfluoro-1-butanefulfonate	PFBS	T		13C3-PFBS	No	No
13	Perfluoro-1-hexanesulfonate	PFHxS	T		13C3-PFHxS	No	No
14	Perfluoro-1-octanesulfonate	PFOS	T		13C8-PFOS	No	No
15	Hexafluoropropylene oxide dimer acid	HFPO-DA	T		13C3-HFPO-DA	No	No
16	Adona	Adona	T		13C3-HFPO-DA	No	No
17	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	T		13C3-HFPO-DA	No	No



It can be done

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_369B

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
18	9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	T		13C3-HFPO-DA	No	No
1	13C5-PFHxA	13C5-PFHxA	SIS	13C2-PFOA		No	No
2	13C4-PFHpA	13C4-PFHpA	SIS	13C2-PFOA		No	No
3	13C8-PFOA	13C8-PFOA	SIS	13C2-PFOA		No	No
4	13C9-PFNA	13C9-PFNA	SIS	13C2-PFOA		No	No
5	13C6-PFDA	13C6-PFDA	SIS	13C2-PFDA		No	No
6	13C7-PFUnA	13C7-PFUnA	SIS	13C2-PFDA		No	No
7	13C2-PFDoA	13C2-PFDoA	SIS	13C2-PFDA		No	No
8	13C2-PFTeDA	13C2-PFTeDA	SIS	13C2-PFDA		No	No
9	d3-MeFOSAA	d3-MeFOSAA	SIS	13C4-PFOS		No	No
10	d5-EtFOSAA	d5-EtFOSAA	SIS	13C4-PFOS		No	No
11	13C3-PFBS	13C3-PFBS	SIS	13C4-PFOS		No	No
12	13C3-PFHxS	13C3-PFHxS	SIS	13C4-PFOS		No	No
13	13C8-PFOS	13C8-PFOS	SIS	13C4-PFOS		No	No
14	13C3-HFPO-DA	13C3-HFPO-DA	SIS	13C2-PFOA		No	No

Total Analytes: 32

Subtract Peaks:

None

Sum Peaks:

None



It can be done

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_369B

ICAL Acceptance Criteria:

Curve Fit:	Limit Mean(%):	Mean Qual:	Limit Ind.:	Ind. Qual:	Min Points:	Points Qual:	Comments:
Linear	NA	NA	0.99	N	5	N	y = Bx + C
Quadratic	NA	NA	0.99	N	6	N	y = Ax^2 + Bx + C

Continuing Calibration Verification Criteria:

CCV Name: 5-369

Frequency Hrs:	Mean PD(%):	Individual PD(%):	RIS/SIS RT Window (min):	Area Limit Low(%):	Area Limit High(%):	Comment:
12 (N)	30 (N)	30 (N)	0.04 (N)	-50	100 (N)	NA

Independent Calibration Verification:

ICC Name: 5-369

Mean PD Limit(%):	Ind. PD Limit(%):	RIS/SIS Window Limit (Secs):	Area Limit High(%):	Area Limit Low(%):	Comment:
30 (N)	30 (N)	0.04 (N)	-50	100 (N)	NA

Mass Discrimination Criteria:

None

Degradation Check Criteria:

None



It can be done

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 3: Method Quality Objectives

MQO Application: <i>Universal_LC</i>			
MQO:	Acceptance Criteria:	Qual:	Corrective Action:
Procedural Blank	Samples must be greater than five times the blank concentration (>5xPB).	B	Review with Project Manager; re-analyze or justify results in project records.
PB Measurement Quality Objective	Organic results in the Procedural Blank are less than 1/2 times the LOQ (<1/2xLOQ)	N	Review with Project Manager; re-analyze or justify results in project records.
Laboratory Control Sample	Recovery values 70-130%.	N	Review with project manager; re-analyze or justify reporting the results in project records.
Matrix Spike / Matrix Spike Duplicate Recovery	Organics 70-130%. Analyte concentration in MS/MSD must be greater than five times reported background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Matrix Spike/Spike Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Analyte concentration in MS/MSD must be greater than five times reported background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Standard Reference Material Accuracy	Organics Percent Difference less than 30% from a range of certified values on average. Analyte concentration must be greater than five times the Method Detection Limit (>5xMDL).	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the MDL	n	
Analytical Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Analyte concentration must be > 5x MDL.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Original is less than 5 times the MDL	n	



It can be done

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 3: Method Quality Objectives

MQO Application:	<i>Universal_LC</i>		
MQO:	Acceptance Criteria:	Qual:	Corrective Action:
Analytical Triplicate Precision	Organics results less than 30% Relative Standard Deviation (RSD). Analyte concentration must be > 5x MDL. Organics Results in the Original is less than 5 times the MDL	N n	Review with Project Manager; re-analyze or justify reporting results in the project records.
Surrogate Compound Recovery	Recovery results between 50% and 150%.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
Control Oil	RPD < 30% for at least 90% of analytes	N	Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
Instrument Calibration	5-369-8: R-squared greater than or equal to 0.990		Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
Independent Calibration Check Solution	5-369-8: Individual PD less than or equal to 30%. Mean Percent Difference less than or equal to 30%.	N	Review with Project Manager; re-analyze or justify in project records.
Continuing Calibration Verification	5-369-8: Individual PD less than or equal to 30%. Mean Percent Difference less than or equal to 30%.	N	Review with Project Manager; re-analyze or justify in project records.

ShpNo SHP-201014-03

It can be done

Battelle Project No: 100142218

Sample Receipt Form

Approved: Authorized:

Project Number: _____ Client: Jacobs
 Received by: Schumitz, Matt Date/Time Received: Wednesday, October 14, 2020 10:00 AM
 No. of Shipping Containers: 1

SHIPMENT

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

Cooler(s)/Box(es)

Cntr	Type	Tracking No.	Seal	Seal	Container	Therm.	Temp C	Smps
1 of 1	Cooler	7716 6398 3997	Custody Seals	Intact	Intact	Therm_2	1.0	25

Samples

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

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

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

Temperature upon receipt (°C): 1 Temperature Blank used Yes No
(Note: If temperature upon receipt differs from required conditions, see sample log comment field)

Samples Acidified: Yes No Unknown

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

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

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

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

Storage Location: Custody: Refrigerator - R0119 (NA) BDO IDs Assigned: G1644 - G1668

Samples logged in by: Schumitz, Matt Date/Time: 10/14/2020 10:00 AM

Approved By: _____ Approved On: _____

Authorized By: _____ Authorized On: _____



It can be done

ShpNo SHP-201014-03

Battelle Project No: 100142218

Sample Receipt Form Details

Approved: Authorized

Project Number: _____ Client: Jacobs

Received by: Schumitz, Matt Date/Time Received: Wednesday, October 14, 2020 10:00 AM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
G1644	CBD-AOA-SW07-1020	10/13/20 10:00	10/14/20 11:05	2	SW	1	NA	NA	NA	R0119 (NA)			
G1645	CBD-AOA-SW05-1020	10/13/20 10:20	10/14/20 11:05	2	SW	1	NA	NA	NA	R0119 (NA)			
G1646	CBD-AOA-SW03-1020	10/13/20 10:35	10/14/20 11:06	2	SW	1	NA	NA	NA	R0119 (NA)			
G1647	CBD-AOA-SW04-1020	10/13/20 10:40	10/14/20 11:06	2	SW	1	NA	NA	NA	R0119 (NA)			
G1648	CBD-AOA-SD04-000H	10/13/20 10:45	10/14/20 11:06	1	SD	1	NA	NA	NA	R0119 (NA)			
G1649	CBD-AOA-SD04-000H-MS	10/13/20 10:45	10/14/20 11:08	1	SD	1	NA	NA	NA	R0119 (NA)			
G1650	CBD-AOA-SD04-000H-SD	10/13/20 10:45	10/14/20 11:08	1	SD	1	NA	NA	NA	R0119 (NA)			
G1651	CBD-AOA-SW02-1020	10/13/20 11:30	10/14/20 11:09	2	SW	1	NA	NA	NA	R0119 (NA)			
G1652	CBD-AOA-SW02P-1020	10/13/20 11:35	10/14/20 11:09	2	SW	1	NA	NA	NA	R0119 (NA)			
G1653	CBD-AOA-SD02-000H	10/13/20 11:40	10/14/20 11:09	1	SD	1	NA	NA	NA	R0119 (NA)			
G1654	CBD-AOA-SW01-1020	10/13/20 12:00	10/14/20 11:10	2	SW	1	NA	NA	NA	R0119 (NA)			
G1655	CBD-AOA-FB03-101320	10/13/20 12:20	10/14/20 11:11	2	AQ	1	NA	NA	NA	R0119 (NA)			
G1656	CBD-AOA-EB01-101320-SW	10/13/20 12:25	10/14/20 11:14	2	AQ	1	NA	NA	NA	R0119 (NA)			
G1657	CBD-AOA-EB01-101320-SD	10/13/20 12:30	10/14/20 11:14	2	AQ	1	NA	NA	NA	R0119 (NA)			
G1658	CBD-AOA-SW08-1020	10/13/20 13:00	10/14/20 11:15	2	SW	1	NA	NA	NA	R0119 (NA)			
G1659	CBD-AOA-SD08-000H	10/13/20 13:10	10/14/20 11:15	1	SD	1	NA	NA	NA	R0119 (NA)			
G1660	CBD-AOA-SD08P-000H	10/13/20 13:15	10/14/20 11:15	1	SD	1	NA	NA	NA	R0119 (NA)			
G1661	CBD-AOA-SW06-1020	10/13/20 13:25	10/14/20 11:16	2	SW	1	NA	NA	NA	R0119 (NA)			
G1662	CBD-AOA-SD06-000H	10/13/20 13:30	10/14/20 11:17	1	SD	1	NA	NA	NA	R0119 (NA)			
G1663	CBD-AOA-SW11-1020	10/13/20 14:00	10/14/20 11:17	2	SW	1	NA	NA	NA	R0119 (NA)			
G1664	CBD-AOA-SW11P-1020	10/13/20 14:05	10/14/20 11:18	2	SW	1	NA	NA	NA	R0119 (NA)			
G1665	CBD-AOA-SW10-1020	10/13/20 14:10	10/14/20 11:18	2	SW	1	NA	NA	NA	R0119 (NA)			
G1666	CBD-AOA-SW10-1020-MS	10/13/20 14:10	10/14/20 11:18	2	SW	1	NA	NA	NA	R0119 (NA)			
G1667	CBD-AOA-SW10-1020-SD	10/13/20 14:10	10/14/20 11:18	2	SW	1	NA	NA	NA	R0119 (NA)			
G1668	CBD-AOA-SW09-1020	10/13/20 14:25	10/14/20 11:19	2	SW	1	NA	NA	NA	R0119 (NA)			

Total Samples: 25



Chain-of-Custody

Client Contact Information Mike Zamboni Michael.Zamboni@jacobs.com CH2M/Jacobs		Project Manager: — Sampler Information (print name): Caitlin Dronfield Phone: 703 376 5097 Email: caitlin.dronfield@jacobs.com Turnaround Time (TAT) Requested: com		Sampling Site: Site 10 (FPA) Site Information: NRL CBD																
Project Name: Site 10 SI Project No.: —		Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/> Time Zone: ET		COC # Page# Page 1 of 3																
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.	Preservative	Analysis	Retention	Disposition	Disposition	Disposition	Disposition	Disposition	Disposition	Disposition	Disposition	Disposition	Disposition	
CBD-ADA-SW07-102D		10/13/20	1000	Grab	SW	2	X													
CBD-ADA-SW05-102D			1020		SW	2	X													
CBD-ADA-SW03-102D			1035		SW	2	X													
CBD-ADA-SW04-102D			1040		SW	2	X													
CBD-ADA-SD04-000H			1045		SD	1	X													
CBD-ADA-SD04-000H-MS			1045		SD	1	X													QA/QC MS/MSD
CBD-ADA-SD04-000H-SD			1045		SD	1	X													QA/QC MS/MSD
CBD-ADA-SW02-102D			1130		SW	2	X													
CBD-ADA-SW02P-102D			1135		SW	2	X													
CBD-ADA-SD02-000H			1140		SD	1	X													Duplicate
CBD-ADA-SW01-102D			1200		SW	2	X													
CBD-ADA-FB03-101320			1220		AQ	2	X													Field Blank Week 3
Receipt Temperature: (°C)		Samples Intact: Yes - No			Samples on Ice: Yes - No			Receipt Comments:												
Relinquished by (Print/Sign): Caitlin Dronfield		Company: CH2M/Jacobs		Date/Time: 10/13/20 1700		Received by (Print/Sign): [Signature]		Company: ISNO		Date/Time: 10.14.20 1000										
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:										
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:										
Comments:																				



Chain-of-Custody

Client Contact Information <i>see page 1</i>		Project Manager: Sampler Information (print name): Phone: Email:		Sampling Site: <i>see page 1</i>			Site Information:			
Project Name:		Turnaround Time (TAT) Requested:		Preservative: <i>none</i>			COC #			
Project No.:		Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/>		Analysis: <i>PEAS</i>			Page# <i>page 2 of 3</i>			
Sample Identification		Time Zone: <i>EST</i>								
	Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.					
<i>CBD-AAA-EB01-101320-SW</i>	<i>10/13/20</i>	<i>Grab</i>	<i>1225</i>	<i>AQ</i>	<i>2</i>	<i>X</i>	<i>616</i>	<i>56</i>	<i>Equipment Blank - SW</i>	
<i>CBD-AAA-EB01-101320-SD</i>			<i>1230</i>	<i>AQ</i>	<i>2</i>	<i>X</i>		<i>57</i>	<i>Equipment Blank - SD</i>	
<i>CBD-AAA-SW08-1020</i>			<i>1300</i>	<i>SW</i>	<i>2</i>	<i>X</i>		<i>58</i>		
<i>CBD-AAA-SD08-000H</i>			<i>1310</i>	<i>SD</i>	<i>1</i>	<i>X</i>		<i>59</i>		
<i>CBD-AAA-SD08P-000H</i>			<i>1315</i>	<i>SD</i>	<i>1</i>	<i>X</i>		<i>60</i>	<i>Duplicate</i>	
<i>CBD-AAA-SW06-1020</i>			<i>1325</i>	<i>SW</i>	<i>2</i>	<i>X</i>		<i>61</i>		
<i>CBD-AAA-SD06-000H</i>			<i>1330</i>	<i>SD</i>	<i>1</i>	<i>X</i>		<i>62</i>		
<i>CBD-AAA-SW11-1020</i>			<i>1400</i>	<i>SW</i>	<i>2</i>	<i>X</i>		<i>63</i>		
<i>CBD-AAA-SW11P-1020</i>			<i>1405</i>	<i>SW</i>	<i>2</i>	<i>X</i>		<i>64</i>	<i>Duplicate</i>	
<i>CBD-AAA-SW10-1020</i>			<i>1410</i>	<i>SW</i>	<i>2</i>	<i>X</i>		<i>65</i>		
<i>CBD-AAA-SW10-1020-MS</i>			<i>1410</i>	<i>SW</i>	<i>2</i>	<i>X</i>		<i>66</i>	<i>QA/QC MS/MSD</i>	
<i>CBD-AAA-SW10-1020-SD</i>			<i>1410</i>	<i>SW</i>	<i>2</i>	<i>X</i>	<i>616</i>	<i>67</i>	<i>QA/QC MS/MSD</i>	
Receipt Temperature: (°C)		Samples Intact: Yes - No			Samples on Ice: Yes - No			Receipt Comments:		
Relinquished by (Print/Sign): <i>Curtin Dranfield</i>		Company: <i>CH2M/JACOBS</i>	Date/Time: <i>10/13/20 1700</i>		Received by (Print/Sign): <i>[Signature]</i>			Company: <i>BNO</i>	Date/Time: <i>10-14-20 1000</i>	
Relinquished by (Print/Sign):		Company:	Date/Time:		Received by (Print/Sign):			Company:	Date/Time:	
Relinquished by (Print/Sign):		Company:	Date/Time:		Received by (Print/Sign):			Company:	Date/Time:	
Comments:										



Chain-of-Custody

<u>Client Contact Information</u>		Project Manager: <i>[Signature]</i>				Sampling Site: <i>see page 1</i>				Site Information: <i>page 1</i>					
Phone: <i>see</i>		Sample Information (print name):				Preservative					COC #				
		Email:													
Project Name: <i>see</i>		Turnaround Time (TAT) Requested:				Analysis					Page# <i>Page 3 of 3</i>				
Project No.:		Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/>													
		Time Zone: <i>ET</i>				PFAS									
<u>Sample Identification</u>		Sample Date	Sample Time	Sample Type	Matrix									Total # of Cont.	
<i>LBD-AAA-SW09-1020</i>		<i>10/13/20</i>	<i>1425</i>	<i>GAB</i>	<i>SW</i>	<i>2</i>	<i>X</i>				<i>G1668</i>				
<i>(S)</i>															
Receipt Temperature: (°C)		Samples Intact: Yes - No				Samples on Ice: Yes - No				Receipt Comments:					
Relinquished by (Print/Sign): <i>[Signature]</i>		Company: <i>CH2M/Jacobs</i>		Date/Time: <i>10/13/20 1700</i>		Received by (Print/Sign): <i>[Signature]</i>		Company: <i>BNO</i>		Date/Time: <i>10-14-20 1000</i>					
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:					
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:					
Comments:															

ORIGIN ID:BCBA (703) 376-5000
CAITLIN DRONFIELD
CAITLIN DRONFIELD
2411 DULLES CORNER PARK
SUITE 500
HERNDON, VA 20171
UNITED STATES US

SHIP DATE: 29SEP20
ACTWGT: 50.00 LB
CAD: 103931050/INET4280
DIMS: 16x24x18 IN

BILL THIRD PARTY

TO **ATTN: SAMPLE RECEIVING
BATELLE
141 LONGWATER DRIVE
SUITE 202
NORWELL MA 02061**

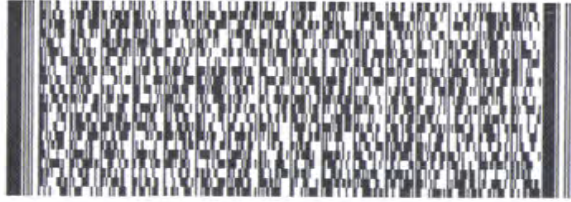
*Therm 2
1.000*

566J2/A27E17/68

(781) 681-5565
INV.
PO

REF: 708207 F1FK

DEPT.



WED - 30 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 7716 6398 3997
0201

EM XPUA

02061
MA-US BOS



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Data Tables



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW07-1020

Battelle ID G1644-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.265
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	124	G1644-FS(0)	1.000	11/3/2020	0.497	1.42	4.72
PFHpA	375-85-9	59.5	G1644-FS(0)	1.000	11/3/2020	0.248	0.943	4.72
PFOA	335-67-1	124	G1644-FS(0)	1.000	11/3/2020	0.482	1.42	4.72
PFNA	375-95-1	226	G1644-FS(0)	1.000	11/3/2020	0.292	0.943	4.72
PFDA	335-76-2	4.35 J	G1644-FS(0)	1.000	11/3/2020	0.134	0.472	4.72
PFUnA	2058-94-8	13.7	G1644-FS(0)	1.000	11/3/2020	0.207	0.472	4.72
PFDoA	307-55-1	0.472 U	G1644-FS(0)	1.000	11/3/2020	0.181	0.472	4.72
PFTTrDA	72629-94-8	0.472 U	G1644-FS(0)	1.000	11/3/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89 U	G1644-FS(0)	1.000	11/3/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	0.943 U	G1644-FS(0)	1.000	11/3/2020	0.330	0.943	4.72
NEtFOSAA	2991-50-6	0.943 U	G1644-FS(0)	1.000	11/3/2020	0.472	0.943	4.72
PFBS	375-73-5	23.3	G1644-FS(0)	1.000	11/3/2020	0.136	0.472	4.72
PFHxS	355-46-4	353 D	G1644-FS-D(3)	5.000	11/3/2020	0.528	1.89	23.6
PFOS	1763-23-1	1140 D	G1644-FS-D(5)	12.500	11/3/2020	5.15	11.8	59.0
HFPO-DA	13252-13-6	0.472 U	G1644-FS(0)	1.000	11/3/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943 U	G1644-FS(0)	1.000	11/3/2020	0.250	0.943	4.72
9CI-PF3ONS	756426-58-1	0.472 U	G1644-FS(0)	1.000	11/3/2020	0.253	0.472	4.72
11CI-PF3OUdS	763051-92-9	0.943 U	G1644-FS(0)	1.000	11/3/2020	0.218	0.943	4.72



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW07-1020

 Battelle ID G1644-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	38 N	G1644-FS(0)	11/3/2020
13C4-PFHpA	44 N	G1644-FS(0)	11/3/2020
13C8-PFOA	64	G1644-FS(0)	11/3/2020
13C9-PFNA	64	G1644-FS(0)	11/3/2020
13C6-PFDA	82	G1644-FS(0)	11/3/2020
13C7-PFUnA	82	G1644-FS(0)	11/3/2020
13C2-PFDoA	74	G1644-FS(0)	11/3/2020
13C2-PFTeDA	58	G1644-FS(0)	11/3/2020
d3-MeFOSAA	101 D	G1644-FS-D(5)	11/3/2020
d5-EtFOSAA	109 D	G1644-FS-D(5)	11/3/2020
13C3-PFBS	88 D	G1644-FS-D(5)	11/3/2020
13C3-PFHxS	96 D	G1644-FS-D(5)	11/3/2020
13C8-PFOS	96 D	G1644-FS-D(5)	11/3/2020
13C3-HFPO-DA	69	G1644-FS(0)	11/3/2020



Project Client: CH2M
Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
Project No.: 100142218

Client ID CBD-AOA-SW03-1020

Battelle ID G1646-FS
Sample Type SA
Collection Date 10/13/2020
Extraction Date 10/21/2020
Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
% Moisture NA
Matrix SW
Sample Size 0.250
Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	34.3	G1646-FS(0)	1.000	11/3/2020	0.527	1.50	5.00
PFHpA	375-85-9	17.9	G1646-FS(0)	1.000	11/3/2020	0.263	1.00	5.00
PFOA	335-67-1	80.4	G1646-FS(0)	1.000	11/3/2020	0.511	1.50	5.00
PFNA	375-95-1	23.2	G1646-FS(0)	1.000	11/3/2020	0.309	1.00	5.00
PFDA	335-76-2	0.283 J	G1646-FS(0)	1.000	11/3/2020	0.142	0.500	5.00
PFUnA	2058-94-8	0.699 J	G1646-FS(0)	1.000	11/3/2020	0.219	0.500	5.00
PFDoA	307-55-1	0.500 U	G1646-FS(0)	1.000	11/3/2020	0.192	0.500	5.00
PFTTrDA	72629-94-8	0.500 U	G1646-FS(0)	1.000	11/3/2020	0.154	0.500	5.00
PFTeDA	376-06-7	2.00 U	G1646-FS(0)	1.000	11/3/2020	0.733	2.00	5.00
NMeFOSAA	2355-31-9	1.00 U	G1646-FS(0)	1.000	11/3/2020	0.350	1.00	5.00
NEtFOSAA	2991-50-6	1.00 U	G1646-FS(0)	1.000	11/3/2020	0.500	1.00	5.00
PFBS	375-73-5	6.97	G1646-FS(0)	1.000	11/3/2020	0.144	0.500	5.00
PFHxS	355-46-4	137	G1646-FS(0)	1.000	11/3/2020	0.112	0.400	5.00
PFOS	1763-23-1	137 D	G1646-FS-D(3)	5.000	11/3/2020	2.19	5.00	25.0
HFPO-DA	13252-13-6	0.500 U	G1646-FS(0)	1.000	11/3/2020	0.248	0.500	5.00
Adona	919005-14-4	1.00 U	G1646-FS(0)	1.000	11/3/2020	0.265	1.00	5.00
9Cl-PF3ONS	756426-58-1	0.500 U	G1646-FS(0)	1.000	11/3/2020	0.268	0.500	5.00
11Cl-PF3OUdS	763051-92-9	1.00 U	G1646-FS(0)	1.000	11/3/2020	0.231	1.00	5.00



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW03-1020

 Battelle ID G1646-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	<i>Recovery</i>	<i>Extract ID</i>	<i>Analysis Date</i>
13C5-PFHxA	34 N	G1646-FS(0)	11/3/2020
13C4-PFHpA	43 N	G1646-FS(0)	11/3/2020
13C8-PFOA	57	G1646-FS(0)	11/3/2020
13C9-PFNA	69	G1646-FS(0)	11/3/2020
13C6-PFDA	75	G1646-FS(0)	11/3/2020
13C7-PFUnA	73	G1646-FS(0)	11/3/2020
13C2-PFDoA	67	G1646-FS(0)	11/3/2020
13C2-PFTeDA	43 N	G1646-FS(0)	11/3/2020
d3-MeFOSAA	96 D	G1646-FS-D(3)	11/3/2020
d5-EtFOSAA	102 D	G1646-FS-D(3)	11/3/2020
13C3-PFBS	72 D	G1646-FS-D(3)	11/3/2020
13C3-PFHxS	78 D	G1646-FS-D(3)	11/3/2020
13C8-PFOS	88 D	G1646-FS-D(3)	11/3/2020
13C3-HFPO-DA	57	G1646-FS(0)	11/3/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW04-1020

Battelle ID G1647-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.247
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	24.0	G1647-FS(0)	1.000	11/3/2020	0.533	1.52	5.06
PFHpA	375-85-9	10.1	G1647-FS(0)	1.000	11/3/2020	0.266	1.01	5.06
PFOA	335-67-1	23.9	G1647-FS(0)	1.000	11/3/2020	0.517	1.52	5.06
PFNA	375-95-1	18.6	G1647-FS(0)	1.000	11/3/2020	0.313	1.01	5.06
PFDA	335-76-2	0.506 U	G1647-FS(0)	1.000	11/3/2020	0.144	0.506	5.06
PFUnA	2058-94-8	0.723 J	G1647-FS(0)	1.000	11/3/2020	0.222	0.506	5.06
PFDoA	307-55-1	0.506 U	G1647-FS(0)	1.000	11/3/2020	0.194	0.506	5.06
PFTTrDA	72629-94-8	0.506 U	G1647-FS(0)	1.000	11/3/2020	0.156	0.506	5.06
PFTeDA	376-06-7	2.02 U	G1647-FS(0)	1.000	11/3/2020	0.742	2.02	5.06
NMeFOSAA	2355-31-9	1.01 U	G1647-FS(0)	1.000	11/3/2020	0.354	1.01	5.06
NEtFOSAA	2991-50-6	1.01 U	G1647-FS(0)	1.000	11/3/2020	0.506	1.01	5.06
PFBS	375-73-5	5.57	G1647-FS(0)	1.000	11/3/2020	0.146	0.506	5.06
PFHxS	355-46-4	90.6	G1647-FS(0)	1.000	11/3/2020	0.113	0.405	5.06
PFOS	1763-23-1	165 D	G1647-FS-D(3)	5.000	11/3/2020	2.21	5.06	25.3
HFPO-DA	13252-13-6	0.506 U	G1647-FS(0)	1.000	11/3/2020	0.251	0.506	5.06
Adona	919005-14-4	1.01 U	G1647-FS(0)	1.000	11/3/2020	0.268	1.01	5.06
9Cl-PF3ONS	756426-58-1	0.506 U	G1647-FS(0)	1.000	11/3/2020	0.271	0.506	5.06
11Cl-PF3OUdS	763051-92-9	1.01 U	G1647-FS(0)	1.000	11/3/2020	0.234	1.01	5.06



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW02-1020

Battelle ID G1651-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	17 N	G1651-FS(0)	11/2/2020
13C4-PFHpA	22 N	G1651-FS(0)	11/2/2020
13C8-PFOA	26 N	G1651-FS(0)	11/2/2020
13C9-PFNA	33 N	G1651-FS(0)	11/2/2020
13C6-PFDA	29 N	G1651-FS(0)	11/2/2020
13C7-PFUnA	24 N	G1651-FS(0)	11/2/2020
13C2-PFDoA	22 N	G1651-FS(0)	11/2/2020
13C2-PFTeDA	12 N	G1651-FS(0)	11/2/2020
d3-MeFOSAA	28 N	G1651-FS(0)	11/2/2020
d5-EtFOSAA	30 N	G1651-FS(0)	11/2/2020
13C3-PFBS	34 N	G1651-FS(0)	11/2/2020
13C3-PFHxS	34 N	G1651-FS(0)	11/2/2020
13C8-PFOS	32 N	G1651-FS(0)	11/2/2020
13C3-HFPO-DA	29 N	G1651-FS(0)	11/2/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW02P-1020

Battelle ID G1652-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.265
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	10.6	G1652-FS(0)	1.000	11/2/2020	0.497	1.42	4.72
PFHpA	375-85-9	4.64 J	G1652-FS(0)	1.000	11/2/2020	0.248	0.943	4.72
PFOA	335-67-1	11.1	G1652-FS(0)	1.000	11/2/2020	0.482	1.42	4.72
PFNA	375-95-1	4.70 J	G1652-FS(0)	1.000	11/2/2020	0.292	0.943	4.72
PFDA	335-76-2	0.472 U	G1652-FS(0)	1.000	11/2/2020	0.134	0.472	4.72
PFUnA	2058-94-8	0.801 J	G1652-FS(0)	1.000	11/2/2020	0.207	0.472	4.72
PFDoA	307-55-1	0.472 U	G1652-FS(0)	1.000	11/2/2020	0.181	0.472	4.72
PFTTrDA	72629-94-8	0.472 U	G1652-FS(0)	1.000	11/2/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89 U	G1652-FS(0)	1.000	11/2/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	0.943 U	G1652-FS(0)	1.000	11/2/2020	0.330	0.943	4.72
NEtFOSAA	2991-50-6	0.943 U	G1652-FS(0)	1.000	11/2/2020	0.472	0.943	4.72
PFBS	375-73-5	3.33 J	G1652-FS(0)	1.000	11/2/2020	0.136	0.472	4.72
PFHxS	355-46-4	56.8	G1652-FS(0)	1.000	11/2/2020	0.106	0.377	4.72
PFOS	1763-23-1	42.4	G1652-FS(0)	1.000	11/2/2020	0.412	0.943	4.72
HFPO-DA	13252-13-6	0.472 U	G1652-FS(0)	1.000	11/2/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943 U	G1652-FS(0)	1.000	11/2/2020	0.250	0.943	4.72
9CI-PF3ONS	756426-58-1	0.472 U	G1652-FS(0)	1.000	11/2/2020	0.253	0.472	4.72
11CI-PF3OUdS	763051-92-9	0.943 U	G1652-FS(0)	1.000	11/2/2020	0.218	0.943	4.72



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW02P-1020

Battelle ID G1652-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	37 N	G1652-FS(0)	11/2/2020
13C4-PFHpA	48 N	G1652-FS(0)	11/2/2020
13C8-PFOA	61	G1652-FS(0)	11/2/2020
13C9-PFNA	72	G1652-FS(0)	11/2/2020
13C6-PFDA	75	G1652-FS(0)	11/2/2020
13C7-PFUnA	68	G1652-FS(0)	11/2/2020
13C2-PFDoA	62	G1652-FS(0)	11/2/2020
13C2-PFTeDA	41 N	G1652-FS(0)	11/2/2020
d3-MeFOSAA	98	G1652-FS(0)	11/2/2020
d5-EtFOSAA	100	G1652-FS(0)	11/2/2020
13C3-PFBS	56	G1652-FS(0)	11/2/2020
13C3-PFHxS	71	G1652-FS(0)	11/2/2020
13C8-PFOS	79	G1652-FS(0)	11/2/2020
13C3-HFPO-DA	68	G1652-FS(0)	11/2/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW01-1020

Battelle ID G1654-FS

Sample Type SA

Collection Date 10/13/2020

Extraction Date 10/21/2020

Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

% Moisture NA

Matrix SW

Sample Size 0.270

Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	2.84 J	G1654-FS(0)	1.000	11/2/2020	0.488	1.39	4.63
PFHpA	375-85-9	1.44 J	G1654-FS(0)	1.000	11/2/2020	0.244	0.926	4.63
PFOA	335-67-1	2.93 J	G1654-FS(0)	1.000	11/2/2020	0.473	1.39	4.63
PFNA	375-95-1	1.33 J	G1654-FS(0)	1.000	11/2/2020	0.286	0.926	4.63
PFDA	335-76-2	0.463 U	G1654-FS(0)	1.000	11/2/2020	0.131	0.463	4.63
PFUnA	2058-94-8	0.464 J	G1654-FS(0)	1.000	11/2/2020	0.203	0.463	4.63
PFDoA	307-55-1	0.463 U	G1654-FS(0)	1.000	11/2/2020	0.178	0.463	4.63
PFTTrDA	72629-94-8	0.463 U	G1654-FS(0)	1.000	11/2/2020	0.143	0.463	4.63
PFTeDA	376-06-7	1.85 U	G1654-FS(0)	1.000	11/2/2020	0.679	1.85	4.63
NMeFOSAA	2355-31-9	0.926 U	G1654-FS(0)	1.000	11/2/2020	0.324	0.926	4.63
NEtFOSAA	2991-50-6	0.926 U	G1654-FS(0)	1.000	11/2/2020	0.463	0.926	4.63
PFBS	375-73-5	1.74 J	G1654-FS(0)	1.000	11/2/2020	0.133	0.463	4.63
PFHxS	355-46-4	19.0	G1654-FS(0)	1.000	11/2/2020	0.104	0.370	4.63
PFOS	1763-23-1	12.8	G1654-FS(0)	1.000	11/2/2020	0.405	0.926	4.63
HFPO-DA	13252-13-6	0.463 U	G1654-FS(0)	1.000	11/2/2020	0.230	0.463	4.63
Adona	919005-14-4	0.926 U	G1654-FS(0)	1.000	11/2/2020	0.245	0.926	4.63
9CI-PF3ONS	756426-58-1	0.463 U	G1654-FS(0)	1.000	11/2/2020	0.248	0.463	4.63
11CI-PF3OUdS	763051-92-9	0.926 U	G1654-FS(0)	1.000	11/2/2020	0.214	0.926	4.63



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW01-1020
 Battelle ID G1654-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	28 N	G1654-FS(0)	11/2/2020
13C4-PFHpA	36 N	G1654-FS(0)	11/2/2020
13C8-PFOA	45 N	G1654-FS(0)	11/2/2020
13C9-PFNA	52	G1654-FS(0)	11/2/2020
13C6-PFDA	54	G1654-FS(0)	11/2/2020
13C7-PFUnA	49 N	G1654-FS(0)	11/2/2020
13C2-PFDoA	42 N	G1654-FS(0)	11/2/2020
13C2-PFTeDA	34 N	G1654-FS(0)	11/2/2020
d3-MeFOSAA	55	G1654-FS(0)	11/2/2020
d5-EtFOSAA	56	G1654-FS(0)	11/2/2020
13C3-PFBS	44 N	G1654-FS(0)	11/2/2020
13C3-PFHxS	56	G1654-FS(0)	11/2/2020
13C8-PFOS	49 N	G1654-FS(0)	11/2/2020
13C3-HFPO-DA	49 N	G1654-FS(0)	11/2/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-FB03-101320

Battelle ID G1655-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix AQ
 Sample Size 0.260
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1.44 U	G1655-FS(0)	1.000	11/2/2020	0.507	1.44	4.81
PFHpA	375-85-9	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.253	0.962	4.81
PFOA	335-67-1	1.44 U	G1655-FS(0)	1.000	11/2/2020	0.491	1.44	4.81
PFNA	375-95-1	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.297	0.962	4.81
PFDA	335-76-2	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.137	0.481	4.81
PFUnA	2058-94-8	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.211	0.481	4.81
PFDoA	307-55-1	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.185	0.481	4.81
PFTTrDA	72629-94-8	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.148	0.481	4.81
PFTeDA	376-06-7	1.92 U	G1655-FS(0)	1.000	11/2/2020	0.705	1.92	4.81
NMeFOSAA	2355-31-9	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.337	0.962	4.81
NEtFOSAA	2991-50-6	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.481	0.962	4.81
PFBS	375-73-5	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.138	0.481	4.81
PFHxS	355-46-4	0.385 U	G1655-FS(0)	1.000	11/2/2020	0.108	0.385	4.81
PFOS	1763-23-1	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.420	0.962	4.81
HFPO-DA	13252-13-6	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.238	0.481	4.81
Adona	919005-14-4	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.255	0.962	4.81
9CI-PF3ONS	756426-58-1	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.258	0.481	4.81
11CI-PF3OUdS	763051-92-9	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.222	0.962	4.81



Project Client: CH2M
Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
Project No.: 100142218

Client ID	CBD-AOA-FB03-101320
Battelle ID	G1655-FS
Sample Type	SA
Collection Date	10/13/2020
Extraction Date	10/21/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	61	G1655-FS(0)	11/2/2020
13C4-PFHpA	57	G1655-FS(0)	11/2/2020
13C8-PFOA	62	G1655-FS(0)	11/2/2020
13C9-PFNA	83	G1655-FS(0)	11/2/2020
13C6-PFDA	71	G1655-FS(0)	11/2/2020
13C7-PFUnA	68	G1655-FS(0)	11/2/2020
13C2-PFDoA	65	G1655-FS(0)	11/2/2020
13C2-PFTeDA	76	G1655-FS(0)	11/2/2020
d3-MeFOSAA	114	G1655-FS(0)	11/2/2020
d5-EtFOSAA	96	G1655-FS(0)	11/2/2020
13C3-PFBS	98	G1655-FS(0)	11/2/2020
13C3-PFHxS	86	G1655-FS(0)	11/2/2020
13C8-PFOS	76	G1655-FS(0)	11/2/2020
13C3-HFPO-DA	54	G1655-FS(0)	11/2/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-EB01-101320-SW

Battelle ID G1656-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix AQ
 Sample Size 0.270
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1.39 U	G1656-FS(0)	1.000	11/2/2020	0.488	1.39	4.63
PFHpA	375-85-9	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.244	0.926	4.63
PFOA	335-67-1	1.39 U	G1656-FS(0)	1.000	11/2/2020	0.473	1.39	4.63
PFNA	375-95-1	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.286	0.926	4.63
PFDA	335-76-2	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.131	0.463	4.63
PFUnA	2058-94-8	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.203	0.463	4.63
PFDoA	307-55-1	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.178	0.463	4.63
PFTTrDA	72629-94-8	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.143	0.463	4.63
PFTeDA	376-06-7	1.85 U	G1656-FS(0)	1.000	11/2/2020	0.679	1.85	4.63
NMeFOSAA	2355-31-9	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.324	0.926	4.63
NEtFOSAA	2991-50-6	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.463	0.926	4.63
PFBS	375-73-5	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.133	0.463	4.63
PFHxS	355-46-4	0.370 U	G1656-FS(0)	1.000	11/2/2020	0.104	0.370	4.63
PFOS	1763-23-1	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.405	0.926	4.63
HFPO-DA	13252-13-6	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.230	0.463	4.63
Adona	919005-14-4	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.245	0.926	4.63
9CI-PF3ONS	756426-58-1	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.248	0.463	4.63
11CI-PF3OUdS	763051-92-9	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.214	0.926	4.63



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-EB01-101320-SW

Battelle ID G1656-FS

Sample Type SA

Collection Date 10/13/2020

Extraction Date 10/21/2020

Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	64	G1656-FS(0)	11/2/2020
13C4-PFHpA	67	G1656-FS(0)	11/2/2020
13C8-PFOA	61	G1656-FS(0)	11/2/2020
13C9-PFNA	88	G1656-FS(0)	11/2/2020
13C6-PFDA	71	G1656-FS(0)	11/2/2020
13C7-PFUnA	70	G1656-FS(0)	11/2/2020
13C2-PFDoA	72	G1656-FS(0)	11/2/2020
13C2-PFTeDA	71	G1656-FS(0)	11/2/2020
d3-MeFOSAA	93	G1656-FS(0)	11/2/2020
d5-EtFOSAA	105	G1656-FS(0)	11/2/2020
13C3-PFBS	105	G1656-FS(0)	11/2/2020
13C3-PFHxS	89	G1656-FS(0)	11/2/2020
13C8-PFOS	81	G1656-FS(0)	11/2/2020
13C3-HFPO-DA	65	G1656-FS(0)	11/2/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-EB01-101320-SD

Battelle ID G1657-FS

Sample Type SA

Collection Date 10/13/2020

Extraction Date 10/21/2020

Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

% Moisture NA

Matrix AQ

Sample Size 0.270

Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1.39 U	G1657-FS(0)	1.000	11/2/2020	0.488	1.39	4.63
PFHpA	375-85-9	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.244	0.926	4.63
PFOA	335-67-1	1.39 U	G1657-FS(0)	1.000	11/2/2020	0.473	1.39	4.63
PFNA	375-95-1	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.286	0.926	4.63
PFDA	335-76-2	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.131	0.463	4.63
PFUnA	2058-94-8	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.203	0.463	4.63
PFDoA	307-55-1	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.178	0.463	4.63
PFTTrDA	72629-94-8	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.143	0.463	4.63
PFTeDA	376-06-7	1.85 U	G1657-FS(0)	1.000	11/2/2020	0.679	1.85	4.63
NMeFOSAA	2355-31-9	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.324	0.926	4.63
NEtFOSAA	2991-50-6	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.463	0.926	4.63
PFBS	375-73-5	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.133	0.463	4.63
PFHxS	355-46-4	0.370 U	G1657-FS(0)	1.000	11/2/2020	0.104	0.370	4.63
PFOS	1763-23-1	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.405	0.926	4.63
HFPO-DA	13252-13-6	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.230	0.463	4.63
Adona	919005-14-4	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.245	0.926	4.63
9CI-PF3ONS	756426-58-1	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.248	0.463	4.63
11CI-PF3OUdS	763051-92-9	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.214	0.926	4.63



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-EB01-101320-SD

Battelle ID G1657-FS

Sample Type SA

Collection Date 10/13/2020

Extraction Date 10/21/2020

Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	57	G1657-FS(0)	11/2/2020
13C4-PFHpA	62	G1657-FS(0)	11/2/2020
13C8-PFOA	57	G1657-FS(0)	11/2/2020
13C9-PFNA	91	G1657-FS(0)	11/2/2020
13C6-PFDA	71	G1657-FS(0)	11/2/2020
13C7-PFUnA	62	G1657-FS(0)	11/2/2020
13C2-PFDoA	61	G1657-FS(0)	11/2/2020
13C2-PFTeDA	50	G1657-FS(0)	11/2/2020
d3-MeFOSAA	88	G1657-FS(0)	11/2/2020
d5-EtFOSAA	119	G1657-FS(0)	11/2/2020
13C3-PFBS	103	G1657-FS(0)	11/2/2020
13C3-PFHxS	93	G1657-FS(0)	11/2/2020
13C8-PFOS	85	G1657-FS(0)	11/2/2020
13C3-HFPO-DA	61	G1657-FS(0)	11/2/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW08-1020

Battelle ID G1658-FS

Sample Type SA

Collection Date 10/13/2020

Extraction Date 10/21/2020

Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

% Moisture NA

Matrix SW

Sample Size 0.265

Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	384 D	G1658-FS-D(3)	5.000	11/3/2020	2.49	7.08	23.6
PFHpA	375-85-9	310	G1658-FS(0)	1.000	11/3/2020	0.248	0.943	4.72
PFOA	335-67-1	453 D	G1658-FS-D(3)	5.000	11/3/2020	2.41	7.08	23.6
PFNA	375-95-1	407 D	G1658-FS-D(3)	5.000	11/3/2020	1.46	4.72	23.6
PFDA	335-76-2	37.6	G1658-FS(0)	1.000	11/3/2020	0.134	0.472	4.72
PFUnA	2058-94-8	116 D	G1658-FS-D(3)	5.000	11/3/2020	1.03	2.36	23.6
PFDaA	307-55-1	1.43 J	G1658-FS(0)	1.000	11/3/2020	0.181	0.472	4.72
PFTrDA	72629-94-8	12.1	G1658-FS(0)	1.000	11/3/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89 U	G1658-FS(0)	1.000	11/3/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	0.943 U	G1658-FS(0)	1.000	11/3/2020	0.330	0.943	4.72
NEtFOSAA	2991-50-6	0.943 U	G1658-FS(0)	1.000	11/3/2020	0.472	0.943	4.72
PFBS	375-73-5	51.1	G1658-FS(0)	1.000	11/3/2020	0.136	0.472	4.72
PFHxS	355-46-4	1700 D	G1658-FS-D(7)	62.500	11/3/2020	6.60	23.6	295
PFOS	1763-23-1	4960 D	G1658-FS-D(7)	62.500	11/3/2020	25.8	59.0	295
HFPO-DA	13252-13-6	0.472 U	G1658-FS(0)	1.000	11/3/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943 U	G1658-FS(0)	1.000	11/3/2020	0.250	0.943	4.72
9CI-PF3ONS	756426-58-1	0.472 U	G1658-FS(0)	1.000	11/3/2020	0.253	0.472	4.72
11CI-PF3OUdS	763051-92-9	0.943 U	G1658-FS(0)	1.000	11/3/2020	0.218	0.943	4.72



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW06-1020

Battelle ID G1661-FS

Sample Type SA

Collection Date 10/13/2020

Extraction Date 10/21/2020

Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

% Moisture NA

Matrix SW

Sample Size 0.260

Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	392 D	G1661-FS-D(3)	5.000	11/3/2020	2.53	7.21	24.0
PFHpA	375-85-9	305	G1661-FS(0)	1.000	11/3/2020	0.253	0.962	4.81
PFOA	335-67-1	521 D	G1661-FS-D(5)	25.000	11/3/2020	12.3	36.1	120
PFNA	375-95-1	416 D	G1661-FS-D(3)	5.000	11/3/2020	1.49	4.81	24.0
PFDA	335-76-2	40.2	G1661-FS(0)	1.000	11/3/2020	0.137	0.481	4.81
PFUnA	2058-94-8	112 D	G1661-FS-D(3)	5.000	11/3/2020	1.05	2.40	24.0
PFDoA	307-55-1	1.51 J	G1661-FS(0)	1.000	11/3/2020	0.185	0.481	4.81
PFTrDA	72629-94-8	30.8	G1661-FS(0)	1.000	11/3/2020	0.148	0.481	4.81
PFTeDA	376-06-7	1.92 U	G1661-FS(0)	1.000	11/3/2020	0.705	1.92	4.81
NMeFOSAA	2355-31-9	0.962 U	G1661-FS(0)	1.000	11/3/2020	0.337	0.962	4.81
NEtFOSAA	2991-50-6	0.962 U	G1661-FS(0)	1.000	11/3/2020	0.481	0.962	4.81
PFBS	375-73-5	51.2	G1661-FS(0)	1.000	11/3/2020	0.138	0.481	4.81
PFHxS	355-46-4	1520 D	G1661-FS-D(5)	25.000	11/3/2020	2.69	9.62	120
PFOS	1763-23-1	4140 D	G1661-FS-D(7)	62.500	11/3/2020	26.3	60.1	300
HFPO-DA	13252-13-6	0.481 U	G1661-FS(0)	1.000	11/3/2020	0.238	0.481	4.81
Adona	919005-14-4	0.962 U	G1661-FS(0)	1.000	11/3/2020	0.255	0.962	4.81
9CI-PF3ONS	756426-58-1	0.481 U	G1661-FS(0)	1.000	11/3/2020	0.258	0.481	4.81
11CI-PF3OUdS	763051-92-9	0.962 U	G1661-FS(0)	1.000	11/3/2020	0.222	0.962	4.81



Project Client: CH2M
Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
Project No.: 100142218

Client ID CBD-AOA-SW06-1020

Battelle ID G1661-FS
Sample Type SA
Collection Date 10/13/2020
Extraction Date 10/21/2020
Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	75 D	G1661-FS-D(5)	11/3/2020
13C4-PFHpA	75 D	G1661-FS-D(5)	11/3/2020
13C8-PFOA	71 D	G1661-FS-D(5)	11/3/2020
13C9-PFNA	95 D	G1661-FS-D(5)	11/3/2020
13C6-PFDA	69	G1661-FS(0)	11/3/2020
13C7-PFUnA	66	G1661-FS(0)	11/3/2020
13C2-PFDoA	43 N	G1661-FS(0)	11/3/2020
13C2-PFTeDA	6 N	G1661-FS(0)	11/3/2020
d3-MeFOSAA	97 D	G1661-FS-D(7)	11/3/2020
d5-EtFOSAA	101 D	G1661-FS-D(7)	11/3/2020
13C3-PFBS	91 D	G1661-FS-D(7)	11/3/2020
13C3-PFHxS	101 D	G1661-FS-D(7)	11/3/2020
13C8-PFOS	95 D	G1661-FS-D(7)	11/3/2020
13C3-HFPO-DA	61 D	G1661-FS-D(5)	11/3/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW11-1020

 Battelle ID G1663-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	72 D	G1663-FS-D(5)	11/3/2020
13C4-PFHpA	71 D	G1663-FS-D(5)	11/3/2020
13C8-PFOA	72 D	G1663-FS-D(5)	11/3/2020
13C9-PFNA	94 D	G1663-FS-D(5)	11/3/2020
13C6-PFDA	76	G1663-FS(0)	11/3/2020
13C7-PFUnA	79	G1663-FS(0)	11/3/2020
13C2-PFDoA	61	G1663-FS(0)	11/3/2020
13C2-PFTeDA	36 N	G1663-FS(0)	11/3/2020
d3-MeFOSAA	83 D	G1663-FS-D(9)	11/3/2020
d5-EtFOSAA	97 D	G1663-FS-D(9)	11/3/2020
13C3-PFBS	78 D	G1663-FS-D(9)	11/3/2020
13C3-PFHxS	91 D	G1663-FS-D(9)	11/3/2020
13C8-PFOS	85 D	G1663-FS-D(9)	11/3/2020
13C3-HFPO-DA	64 D	G1663-FS-D(5)	11/3/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW11P-1020

Battelle ID G1664-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.270
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	494 D	G1664-FS-D(3)	5.000	11/3/2020	2.44	6.94	23.1
PFHpA	375-85-9	360 D	G1664-FS-D(3)	5.000	11/3/2020	1.22	4.63	23.1
PFOA	335-67-1	578 D	G1664-FS-D(5)	12.500	11/3/2020	5.91	17.4	57.9
PFNA	375-95-1	443 D	G1664-FS-D(3)	5.000	11/3/2020	1.43	4.63	23.1
PFDA	335-76-2	38.6	G1664-FS(0)	1.000	11/3/2020	0.131	0.463	4.63
PFUnA	2058-94-8	114	G1664-FS(0)	1.000	11/3/2020	0.203	0.463	4.63
PFDoA	307-55-1	1.69 J	G1664-FS(0)	1.000	11/3/2020	0.178	0.463	4.63
PFTTrDA	72629-94-8	26.4	G1664-FS(0)	1.000	11/3/2020	0.143	0.463	4.63
PFTeDA	376-06-7	1.85 U	G1664-FS(0)	1.000	11/3/2020	0.679	1.85	4.63
NMeFOSAA	2355-31-9	0.926 U	G1664-FS(0)	1.000	11/3/2020	0.324	0.926	4.63
NEtFOSAA	2991-50-6	0.926 U	G1664-FS(0)	1.000	11/3/2020	0.463	0.926	4.63
PFBS	375-73-5	51.2	G1664-FS(0)	1.000	11/3/2020	0.133	0.463	4.63
PFHxS	355-46-4	1730 D	G1664-FS-D(7)	62.500	11/3/2020	6.48	23.1	289
PFOS	1763-23-1	3820 D	G1664-FS-D(7)	62.500	11/3/2020	25.3	57.9	289
HFPO-DA	13252-13-6	0.463 U	G1664-FS(0)	1.000	11/3/2020	0.230	0.463	4.63
Adona	919005-14-4	0.926 U	G1664-FS(0)	1.000	11/3/2020	0.245	0.926	4.63
9CI-PF3ONS	756426-58-1	0.463 U	G1664-FS(0)	1.000	11/3/2020	0.248	0.463	4.63
11CI-PF3OUdS	763051-92-9	0.926 U	G1664-FS(0)	1.000	11/3/2020	0.214	0.926	4.63



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW11P-1020
 Battelle ID G1664-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	79 D	G1664-FS-D(5)	11/3/2020
13C4-PFHpA	68 D	G1664-FS-D(5)	11/3/2020
13C8-PFOA	80 D	G1664-FS-D(5)	11/3/2020
13C9-PFNA	88 D	G1664-FS-D(5)	11/3/2020
13C6-PFDA	73	G1664-FS(0)	11/3/2020
13C7-PFUnA	77	G1664-FS(0)	11/3/2020
13C2-PFDoA	61	G1664-FS(0)	11/3/2020
13C2-PFTeDA	25 N	G1664-FS(0)	11/3/2020
d3-MeFOSAA	91 D	G1664-FS-D(7)	11/3/2020
d5-EtFOSAA	89 D	G1664-FS-D(7)	11/3/2020
13C3-PFBS	81 D	G1664-FS-D(7)	11/3/2020
13C3-PFHxS	89 D	G1664-FS-D(7)	11/3/2020
13C8-PFOS	92 D	G1664-FS-D(7)	11/3/2020
13C3-HFPO-DA	67 D	G1664-FS-D(5)	11/3/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW10-1020

Battelle ID G1665-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.275
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	363 D	G1665-FS-D(3)	5.000	11/3/2020	2.40	6.82	22.7
PFHpA	375-85-9	295	G1665-FS(0)	1.000	11/3/2020	0.239	0.909	4.55
PFOA	335-67-1	413 D	G1665-FS-D(3)	5.000	11/3/2020	2.32	6.82	22.7
PFNA	375-95-1	495 D	G1665-FS-D(3)	5.000	11/3/2020	1.40	4.55	22.7
PFDA	335-76-2	27.6	G1665-FS(0)	1.000	11/3/2020	0.129	0.455	4.55
PFUnA	2058-94-8	99.0 D	G1665-FS-D(3)	5.000	11/3/2020	0.995	2.27	22.7
PFDoA	307-55-1	0.419 J	G1665-FS(0)	1.000	11/3/2020	0.175	0.455	4.55
PFTTrDA	72629-94-8	4.00 J	G1665-FS(0)	1.000	11/3/2020	0.140	0.455	4.55
PFTeDA	376-06-7	1.82 U	G1665-FS(0)	1.000	11/3/2020	0.666	1.82	4.55
NMeFOSAA	2355-31-9	0.909 U	G1665-FS(0)	1.000	11/3/2020	0.318	0.909	4.55
NEtFOSAA	2991-50-6	0.909 U	G1665-FS(0)	1.000	11/3/2020	0.455	0.909	4.55
PFBS	375-73-5	64.1	G1665-FS(0)	1.000	11/3/2020	0.131	0.455	4.55
PFHxS	355-46-4	1130 D	G1665-FS-D(7)	31.250	11/3/2020	3.18	11.4	142
PFOS	1763-23-1	4050 D	G1665-FS-D(9)	156.250	11/3/2020	62.1	142	710
HFPO-DA	13252-13-6	0.455 U	G1665-FS(0)	1.000	11/3/2020	0.225	0.455	4.55
Adona	919005-14-4	0.909 U	G1665-FS(0)	1.000	11/3/2020	0.241	0.909	4.55
9CI-PF3ONS	756426-58-1	0.455 U	G1665-FS(0)	1.000	11/3/2020	0.244	0.455	4.55
11CI-PF3OUdS	763051-92-9	0.909 U	G1665-FS(0)	1.000	11/3/2020	0.210	0.909	4.55



Project Client: CH2M
Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
Project No.: 100142218

Client ID CBD-AOA-SW10-1020

Battelle ID G1665-FS

Sample Type SA

Collection Date 10/13/2020

Extraction Date 10/21/2020

Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	54 D	G1665-FS-D(3)	11/3/2020
13C4-PFHpA	50 D	G1665-FS-D(3)	11/3/2020
13C8-PFOA	65 D	G1665-FS-D(3)	11/3/2020
13C9-PFNA	76 D	G1665-FS-D(3)	11/3/2020
13C6-PFDA	80	G1665-FS(0)	11/3/2020
13C7-PFUnA	84	G1665-FS(0)	11/3/2020
13C2-PFDoA	78	G1665-FS(0)	11/3/2020
13C2-PFTeDA	52	G1665-FS(0)	11/3/2020
d3-MeFOSAA	86 D	G1665-FS-D(9)	11/3/2020
d5-EtFOSAA	93 D	G1665-FS-D(9)	11/3/2020
13C3-PFBS	80 D	G1665-FS-D(9)	11/3/2020
13C3-PFHxS	95 D	G1665-FS-D(9)	11/3/2020
13C8-PFOS	89 D	G1665-FS-D(9)	11/3/2020
13C3-HFPO-DA	60 D	G1665-FS-D(3)	11/3/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW09-1020

Battelle ID G1668-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.250
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	190	G1668-FS(0)	1.000	11/3/2020	0.527	1.50	5.00
PFHpA	375-85-9	223	G1668-FS(0)	1.000	11/3/2020	0.263	1.00	5.00
PFOA	335-67-1	140 D	G1668-FS-D(3)	5.000	11/3/2020	2.56	7.50	25.0
PFNA	375-95-1	120	G1668-FS(0)	1.000	11/3/2020	0.309	1.00	5.00
PFDA	335-76-2	20.0	G1668-FS(0)	1.000	11/3/2020	0.142	0.500	5.00
PFUnA	2058-94-8	185 D	G1668-FS-D(3)	5.000	11/3/2020	1.10	2.50	25.0
PFDoA	307-55-1	3.14 J	G1668-FS(0)	1.000	11/3/2020	0.192	0.500	5.00
PFTrDA	72629-94-8	13.9	G1668-FS(0)	1.000	11/3/2020	0.154	0.500	5.00
PFTeDA	376-06-7	2.00 U	G1668-FS(0)	1.000	11/3/2020	0.733	2.00	5.00
NMeFOSAA	2355-31-9	1.00 U	G1668-FS(0)	1.000	11/3/2020	0.350	1.00	5.00
NEtFOSAA	2991-50-6	1.00 U	G1668-FS(0)	1.000	11/3/2020	0.500	1.00	5.00
PFBS	375-73-5	18.4	G1668-FS(0)	1.000	11/3/2020	0.144	0.500	5.00
PFHxS	355-46-4	301 D	G1668-FS-D(3)	5.000	11/3/2020	0.560	2.00	25.0
PFOS	1763-23-1	2990 D	G1668-FS-D(7)	62.500	11/3/2020	27.3	62.5	313
HFPO-DA	13252-13-6	0.500 U	G1668-FS(0)	1.000	11/3/2020	0.248	0.500	5.00
Adona	919005-14-4	1.00 U	G1668-FS(0)	1.000	11/3/2020	0.265	1.00	5.00
9Cl-PF3ONS	756426-58-1	0.500 U	G1668-FS(0)	1.000	11/3/2020	0.268	0.500	5.00
11Cl-PF3OUdS	763051-92-9	1.00 U	G1668-FS(0)	1.000	11/3/2020	0.231	1.00	5.00



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW09-1020

Battelle ID G1668-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	54 D	G1668-FS-D(3)	11/3/2020
13C4-PFHpA	61 D	G1668-FS-D(3)	11/3/2020
13C8-PFOA	68 D	G1668-FS-D(3)	11/3/2020
13C9-PFNA	55	G1668-FS(0)	11/3/2020
13C6-PFDA	63	G1668-FS(0)	11/3/2020
13C7-PFUnA	79 D	G1668-FS-D(3)	11/3/2020
13C2-PFDoA	40 N	G1668-FS(0)	11/3/2020
13C2-PFTeDA	22 N	G1668-FS(0)	11/3/2020
d3-MeFOSAA	86 D	G1668-FS-D(7)	11/3/2020
d5-EtFOSAA	90 D	G1668-FS-D(7)	11/3/2020
13C3-PFBS	80 D	G1668-FS-D(7)	11/3/2020
13C3-PFHxS	80 D	G1668-FS-D(7)	11/3/2020
13C8-PFOS	85 D	G1668-FS-D(7)	11/3/2020
13C3-HFPO-DA	56 D	G1668-FS-D(3)	11/3/2020



It can be done

Project Client: CH2M

Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.: 100142218

Client ID LD80 IB

Battelle ID LD80 IB_10/30/2020

Sample Type IB

Collection Date NA

Extraction Date NA

Analysis Date 10/30/2020

Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

% Moisture NA

Matrix Water

Sample Size 0.250

Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ
PFHxA	307-24-4	1.50 U	0.527	1.50	5.00
PFHpA	375-85-9	1.00 U	0.263	1.00	5.00
PFOA	335-67-1	1.50 U	0.511	1.50	5.00
PFNA	375-95-1	1.00 U	0.309	1.00	5.00
PFDA	335-76-2	0.500 U	0.142	0.500	5.00
PFUnA	2058-94-8	0.500 U	0.219	0.500	5.00
PFDoA	307-55-1	0.500 U	0.192	0.500	5.00
PFTTrDA	72629-94-8	0.500 U	0.154	0.500	5.00
PFTeDA	376-06-7	2.00 U	0.733	2.00	5.00
NMeFOSAA	2355-31-9	1.00 U	0.350	1.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.500	1.00	5.00
PFBS	375-73-5	0.500 U	0.144	0.500	5.00
PFHxS	355-46-4	0.400 U	0.112	0.400	5.00
PFOS	1763-23-1	1.00 U	0.437	1.00	5.00
HFPO-DA	13252-13-6	0.500 U	0.248	0.500	5.00
Adona	919005-14-4	1.00 U	0.265	1.00	5.00
9Cl-PF3ONS	756426-58-1	0.500 U	0.268	0.500	5.00
11Cl-PF3OUdS	763051-92-9	1.00 U	0.231	1.00	5.00

Analyzed by: Schumitz, Denise

Printed: 11/10/2020

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It can be done

Project Client: CH2M

Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.: 100142218

Client ID	LD80 IB
Battelle ID	LD80 IB_10/30/2020
Sample Type	IB
Collection Date	NA
Extraction Date	NA
Analysis Date	10/30/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS
% Moisture	NA
Matrix	Water
Sample Size	0.250
Size Unit-Basis	L

Surrogate Recoveries (%)

13C5-PFHxA	115
13C4-PFHpA	110
13C8-PFOA	110
13C9-PFNA	102
13C6-PFDA	109
13C7-PFUnA	108
13C2-PFDoA	99
13C2-PFTeDA	100
d3-MeFOSAA	96
d5-EtFOSAA	102
13C3-PFBS	90
13C3-PFHxS	97
13C8-PFOS	101
13C3-HFPO-DA	107



It can be done

Project Client: CH2M

Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.: 100142218

Client ID LD80 IB

Battelle ID LD80 IB_11/02/2020

Sample Type IB

Collection Date NA

Extraction Date NA

Analysis Date 11/02/2020

Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

% Moisture NA

Matrix Water

Sample Size 0.250

Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ
PFHxA	307-24-4	1.50 U	0.527	1.50	5.00
PFHpA	375-85-9	1.00 U	0.263	1.00	5.00
PFOA	335-67-1	1.50 U	0.511	1.50	5.00
PFNA	375-95-1	1.00 U	0.309	1.00	5.00
PFDA	335-76-2	0.500 U	0.142	0.500	5.00
PFUnA	2058-94-8	0.500 U	0.219	0.500	5.00
PFDoA	307-55-1	0.500 U	0.192	0.500	5.00
PFTTrDA	72629-94-8	0.500 U	0.154	0.500	5.00
PFTeDA	376-06-7	2.00 U	0.733	2.00	5.00
NMeFOSAA	2355-31-9	1.00 U	0.350	1.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.500	1.00	5.00
PFBS	375-73-5	0.500 U	0.144	0.500	5.00
PFHxS	355-46-4	0.400 U	0.112	0.400	5.00
PFOS	1763-23-1	1.00 U	0.437	1.00	5.00
HFPO-DA	13252-13-6	0.500 U	0.248	0.500	5.00
Adona	919005-14-4	1.00 U	0.265	1.00	5.00
9Cl-PF3ONS	756426-58-1	0.500 U	0.268	0.500	5.00
11Cl-PF3OUdS	763051-92-9	1.00 U	0.231	1.00	5.00

Analyzed by: Schumitz, Denise

Printed: 11/10/2020

Isotope Dilution

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It can be done

Project Client: CH2M

Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.: 100142218

Client ID	LD80 IB
Battelle ID	LD80 IB_11/02/2020
Sample Type	IB
Collection Date	NA
Extraction Date	NA
Analysis Date	11/02/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS
% Moisture	NA
Matrix	Water
Sample Size	0.250
Size Unit-Basis	L

Surrogate Recoveries (%)

13C5-PFHxA	102
13C4-PFHpA	103
13C8-PFOA	101
13C9-PFNA	99
13C6-PFDA	89
13C7-PFUnA	96
13C2-PFDoA	87
13C2-PFTeDA	92
d3-MeFOSAA	101
d5-EtFOSAA	117
13C3-PFBS	104
13C3-PFHxS	103
13C8-PFOS	102
13C3-HFPO-DA	107



It can be done

Project Client: CH2M

Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.: 100142218

Client ID LD80 IB

Battelle ID LD80 IB_11/03/2020

Sample Type IB

Collection Date NA

Extraction Date NA

Analysis Date 11/03/2020

Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

% Moisture NA

Matrix Water

Sample Size 0.250

Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ
PFHxA	307-24-4	1.50 U	0.527	1.50	5.00
PFHpA	375-85-9	1.00 U	0.263	1.00	5.00
PFOA	335-67-1	1.50 U	0.511	1.50	5.00
PFNA	375-95-1	1.00 U	0.309	1.00	5.00
PFDA	335-76-2	0.500 U	0.142	0.500	5.00
PFUnA	2058-94-8	0.500 U	0.219	0.500	5.00
PFDoA	307-55-1	0.500 U	0.192	0.500	5.00
PFTTrDA	72629-94-8	0.500 U	0.154	0.500	5.00
PFTeDA	376-06-7	2.00 U	0.733	2.00	5.00
NMeFOSAA	2355-31-9	1.00 U	0.350	1.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.500	1.00	5.00
PFBS	375-73-5	0.500 U	0.144	0.500	5.00
PFHxS	355-46-4	0.400 U	0.112	0.400	5.00
PFOS	1763-23-1	1.00 U	0.437	1.00	5.00
HFPO-DA	13252-13-6	0.500 U	0.248	0.500	5.00
Adona	919005-14-4	1.00 U	0.265	1.00	5.00
9Cl-PF3ONS	756426-58-1	0.500 U	0.268	0.500	5.00
11Cl-PF3OUdS	763051-92-9	1.00 U	0.231	1.00	5.00

Analyzed by: Schumitz, Denise

Printed: 11/10/2020

Isotope Dilution

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It can be done

Project Client: CH2M

Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.: 100142218

Client ID	LD80 IB
Battelle ID	LD80 IB_11/03/2020
Sample Type	IB
Collection Date	NA
Extraction Date	NA
Analysis Date	11/03/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS
% Moisture	NA
Matrix	Water
Sample Size	0.250
Size Unit-Basis	L

Surrogate Recoveries (%)

13C5-PFHxA	105
13C4-PFHpA	109
13C8-PFOA	105
13C9-PFNA	100
13C6-PFDA	97
13C7-PFUnA	97
13C2-PFDoA	99
13C2-PFTeDA	98
d3-MeFOSAA	105
d5-EtFOSAA	101
13C3-PFBS	94
13C3-PFHxS	115
13C8-PFOS	103
13C3-HFPO-DA	96



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID Procedural Blank

Battelle ID DA891PB-FS
 Sample Type PB
 Collection Date 10/21/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix WATER
 Sample Size 0.245
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1.53 U	DA891PB-FS(0)	1.000	11/2/2020	0.538	1.53	5.10
PFHpA	375-85-9	1.02 U	DA891PB-FS(0)	1.000	11/2/2020	0.268	1.02	5.10
PFOA	335-67-1	1.53 U	DA891PB-FS(0)	1.000	11/2/2020	0.521	1.53	5.10
PFNA	375-95-1	1.02 U	DA891PB-FS(0)	1.000	11/2/2020	0.315	1.02	5.10
PFDA	335-76-2	0.510 U	DA891PB-FS(0)	1.000	11/2/2020	0.145	0.510	5.10
PFUnA	2058-94-8	0.510 U	DA891PB-FS(0)	1.000	11/2/2020	0.223	0.510	5.10
PFDoA	307-55-1	0.510 U	DA891PB-FS(0)	1.000	11/2/2020	0.196	0.510	5.10
PFTTrDA	72629-94-8	0.510 U	DA891PB-FS(0)	1.000	11/2/2020	0.157	0.510	5.10
PFTeDA	376-06-7	2.04 U	DA891PB-FS(0)	1.000	11/2/2020	0.748	2.04	5.10
NMeFOSAA	2355-31-9	1.02 U	DA891PB-FS(0)	1.000	11/2/2020	0.357	1.02	5.10
NEtFOSAA	2991-50-6	1.02 U	DA891PB-FS(0)	1.000	11/2/2020	0.510	1.02	5.10
PFBS	375-73-5	0.510 U	DA891PB-FS(0)	1.000	11/2/2020	0.147	0.510	5.10
PFHxS	355-46-4	0.408 U	DA891PB-FS(0)	1.000	11/2/2020	0.114	0.408	5.10
PFOS	1763-23-1	1.02 U	DA891PB-FS(0)	1.000	11/2/2020	0.446	1.02	5.10
HFPO-DA	13252-13-6	0.510 U	DA891PB-FS(0)	1.000	11/2/2020	0.253	0.510	5.10
Adona	919005-14-4	1.02 U	DA891PB-FS(0)	1.000	11/2/2020	0.270	1.02	5.10
9Cl-PF3ONS	756426-58-1	0.510 U	DA891PB-FS(0)	1.000	11/2/2020	0.273	0.510	5.10
11Cl-PF3OUdS	763051-92-9	1.02 U	DA891PB-FS(0)	1.000	11/2/2020	0.236	1.02	5.10



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID	Procedural Blank
Battelle ID	DA891PB-FS
Sample Type	PB
Collection Date	10/21/2020
Extraction Date	10/21/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	76	DA891PB-FS(0)	11/2/2020
13C4-PFHpA	76	DA891PB-FS(0)	11/2/2020
13C8-PFOA	77	DA891PB-FS(0)	11/2/2020
13C9-PFNA	81	DA891PB-FS(0)	11/2/2020
13C6-PFDA	80	DA891PB-FS(0)	11/2/2020
13C7-PFUnA	80	DA891PB-FS(0)	11/2/2020
13C2-PFDoA	72	DA891PB-FS(0)	11/2/2020
13C2-PFTeDA	75	DA891PB-FS(0)	11/2/2020
d3-MeFOSAA	74	DA891PB-FS(0)	11/2/2020
d5-EtFOSAA	83	DA891PB-FS(0)	11/2/2020
13C3-PFBS	79	DA891PB-FS(0)	11/2/2020
13C3-PFHxS	84	DA891PB-FS(0)	11/2/2020
13C8-PFOS	78	DA891PB-FS(0)	11/2/2020
13C3-HFPO-DA	65	DA891PB-FS(0)	11/2/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID Laboratory Control Sample

Battelle ID DA892LCS-FS
 Sample Type LCS
 Collection Date 10/21/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix WATER
 Sample Size 0.245
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits	
									Lower	Upper
PFHxA	307-24-4	40.7	DA892LCS-FS(0)	1.000	11/2/2020	41.2	99		72	129
PFHpA	375-85-9	43.9	DA892LCS-FS(0)	1.000	11/2/2020	40.8	108		72	130
PFOA	335-67-1	44.8	DA892LCS-FS(0)	1.000	11/2/2020	40.8	110		71	133
PFNA	375-95-1	43.6	DA892LCS-FS(0)	1.000	11/2/2020	40.8	107		69	130
PFDA	335-76-2	43.4	DA892LCS-FS(0)	1.000	11/2/2020	40.8	106		71	129
PFUnA	2058-94-8	38.8	DA892LCS-FS(0)	1.000	11/2/2020	40.8	95		69	133
PFDoA	307-55-1	42.0	DA892LCS-FS(0)	1.000	11/2/2020	40.8	103		72	134
PFTrDA	72629-94-8	39.2	DA892LCS-FS(0)	1.000	11/2/2020	40.8	96		65	144
PFTeDA	376-06-7	42.9	DA892LCS-FS(0)	1.000	11/2/2020	40.8	105		71	132
NMeFOSAA	2355-31-9	47.9	DA892LCS-FS(0)	1.000	11/2/2020	40.8	117		65	136
NEtFOSAA	2991-50-6	43.1	DA892LCS-FS(0)	1.000	11/2/2020	40.8	106		61	135
PFBS	375-73-5	42.0	DA892LCS-FS(0)	1.000	11/2/2020	40.8	103		72	130
PFHxS	355-46-4	41.7	DA892LCS-FS(0)	1.000	11/2/2020	41.2	101		68	131
PFOS	1763-23-1	40.9	DA892LCS-FS(0)	1.000	11/2/2020	41.2	99		65	140
HFPO-DA	13252-13-6	43.6	DA892LCS-FS(0)	1.000	11/2/2020	40.8	107		74	148
Adona	919005-14-4	43.4	DA892LCS-FS(0)	1.000	11/2/2020	40.8	106		61	143
9CI-PF3ONS	756426-58-1	42.0	DA892LCS-FS(0)	1.000	11/2/2020	40.8	103		52	158
11CI-PF3OUdS	763051-92-9	38.7	DA892LCS-FS(0)	1.000	11/2/2020	40.8	95		59	147



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID	Laboratory Control Sample
Battelle ID	DA892LCS-FS
Sample Type	LCS
Collection Date	10/21/2020
Extraction Date	10/21/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	70	DA892LCS-FS(0)	11/2/2020
13C4-PFHpA	73	DA892LCS-FS(0)	11/2/2020
13C8-PFOA	68	DA892LCS-FS(0)	11/2/2020
13C9-PFNA	84	DA892LCS-FS(0)	11/2/2020
13C6-PFDA	78	DA892LCS-FS(0)	11/2/2020
13C7-PFUnA	77	DA892LCS-FS(0)	11/2/2020
13C2-PFDoA	70	DA892LCS-FS(0)	11/2/2020
13C2-PFTeDA	81	DA892LCS-FS(0)	11/2/2020
d3-MeFOSAA	93	DA892LCS-FS(0)	11/2/2020
d5-EtFOSAA	82	DA892LCS-FS(0)	11/2/2020
13C3-PFBS	97	DA892LCS-FS(0)	11/2/2020
13C3-PFHxS	87	DA892LCS-FS(0)	11/2/2020
13C8-PFOS	87	DA892LCS-FS(0)	11/2/2020
13C3-HFPO-DA	77	DA892LCS-FS(0)	11/2/2020



Project Client: CH2M

Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.: 100142218

**MS/MSD Background
Sample**

Client ID CBD-AOA-SW10-1020-MS CBD-AOA-SW10-1020

Battelle ID G1666MS-FS G1665-FS

Sample Type MS SA

Collection Date 10/13/2020 10/13/2020

Extraction Date 10/21/2020 10/21/2020

Analytical Instrument Sciex 6500+ (AE) LC/MS/MS Sciex 6500+ (AE) LC/MS/MS

% Moisture NA NA

Matrix SW SW

Sample Size 0.270 0.275

Size Unit-Basis L L

Analyte	CAS No.	Result (ng/L)		Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits	
										Lower	Upper
PFHxA	307-24-4	409 D	363 D	G1666MS-FS-D(3)	5.000	11/3/2020	46.8	98		72	129
PFHpA	375-85-9	276 D	295	G1666MS-FS-D(3)	5.000	11/3/2020	46.3	0	N	72	130
PFOA	335-67-1	446 D	413 D	G1666MS-FS-D(3)	5.000	11/3/2020	46.3	71		71	133
PFNA	375-95-1	557 D	495 D	G1666MS-FS-D(3)	5.000	11/3/2020	46.3	134	N	69	130
PFDA	335-76-2	67.4	27.6	G1666MS-FS(0)	1.000	11/3/2020	46.3	86		71	129
PFUnA	2058-94-8	109 D	99.0 D	G1666MS-FS-D(3)	5.000	11/3/2020	46.3	22	N	69	133
PFDaA	307-55-1	46.2	0.419 J	G1666MS-FS(0)	1.000	11/3/2020	46.3	99		72	134
PFTrDA	72629-94-8	116	4.00 J	G1666MS-FS(0)	1.000	11/3/2020	46.3	242	N	65	144
PFTeDA	376-06-7	46.7	1.82 U	G1666MS-FS(0)	1.000	11/3/2020	46.3	101		71	132
NMeFOSAA	2355-31-9	48.3	0.909 U	G1666MS-FS(0)	1.000	11/3/2020	46.3	104		65	136
NEtFOSAA	2991-50-6	41.1	0.909 U	G1666MS-FS(0)	1.000	11/3/2020	46.3	89		61	135
PFBS	375-73-5	105	64.1	G1666MS-FS(0)	1.000	11/3/2020	46.3	88		72	130
PFHxS	355-46-4	1350 D	1130 D	G1666MS-FS-D(7)	62.500	11/3/2020	46.8	470	N	68	131
PFOS	1763-23-1	3800 D	4050 D	G1666MS-FS-D(9)	156.250	11/3/2020	46.8	0	N	65	140
HFPO-DA	13252-13-6	34.4	0.455 U	G1666MS-FS(0)	1.000	11/3/2020	46.3	74		74	148
Adona	919005-14-4	30.8	0.909 U	G1666MS-FS(0)	1.000	11/3/2020	46.3	67		61	143
9CI-PF3ONS	756426-58-1	65.3	0.455 U	G1666MS-FS(0)	1.000	11/3/2020	46.3	141		52	158
11CI-PF3OUdS	763051-92-9	54.7	0.909 U	G1666MS-FS(0)	1.000	11/3/2020	46.3	118		59	147



Project Client: CH2M

Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.: 100142218

**MS/MSD Background
Sample**

Client ID	CBD-AOA-SW10-1020-MS	CBD-AOA-SW10-1020
Battelle ID	G1666MS-FS	G1665-FS
Sample Type	MS	SA
Collection Date	10/13/2020	10/13/2020
Extraction Date	10/21/2020	10/21/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS	Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	51 D	G1666MS-FS-D(3)	11/3/2020
13C4-PFHpA	51 D	G1666MS-FS-D(3)	11/3/2020
13C8-PFOA	62 D	G1666MS-FS-D(3)	11/3/2020
13C9-PFNA	78 D	G1666MS-FS-D(3)	11/3/2020
13C6-PFDA	74	G1666MS-FS(0)	11/3/2020
13C7-PFUnA	68	G1666MS-FS(0)	11/3/2020
13C2-PFDoA	59	G1666MS-FS(0)	11/3/2020
13C2-PFTeDA	16 N	G1666MS-FS(0)	11/3/2020
d3-MeFOSAA	85 D	G1666MS-FS-D(9)	11/3/2020
d5-EtFOSAA	96 D	G1666MS-FS-D(9)	11/3/2020
13C3-PFBS	83 D	G1666MS-FS-D(9)	11/3/2020
13C3-PFHxS	91 D	G1666MS-FS-D(9)	11/3/2020
13C8-PFOS	88 D	G1666MS-FS-D(9)	11/3/2020
13C3-HFPO-DA	54 D	G1666MS-FS-D(3)	11/3/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

MS/MSD Background Sample

Client ID	CBD-AOA-SW10-1020-SD	CBD-AOA-SW10-1020
Battelle ID	G1667MSD-FS	G1665-FS
Sample Type	MSD	SA
Collection Date	10/13/2020	10/13/2020
Extraction Date	10/21/2020	10/21/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS	Sciex 6500+ (AE) LC/MS/MS
% Moisture	NA	NA
Matrix	SW	SW
Sample Size	0.265	0.275
Size Unit-Basis	L	L

Analyte	CAS No.	Result (ng/L)	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits		RPD	Qual	RPD Limit
										Lower	Upper			
PFHxA	307-24-4	360 D	363 D	G1667MSD-FS-D(3)	5.000	11/3/2020	47.6	0	N	72	129	200.0	N	≤ 30
PFHpA	375-85-9	280 D	295	G1667MSD-FS-D(3)	5.000	11/3/2020	47.2	0	N	72	130	0.0		≤ 30
PFOA	335-67-1	400 D	413 D	G1667MSD-FS-D(3)	5.000	11/3/2020	47.2	0	N	71	133	200.0	N	≤ 30
PFNA	375-95-1	441 D	495 D	G1667MSD-FS-D(3)	5.000	11/3/2020	47.2	0	N	69	130	200.0	N	≤ 30
PFDA	335-76-2	65.4	27.6	G1667MSD-FS(0)	1.000	11/3/2020	47.2	80		71	129	7.2		≤ 30
PFUnA	2058-94-8	82.8 D	99.0 D	G1667MSD-FS-D(3)	5.000	11/3/2020	47.2	0	N	69	133	200.0	N	≤ 30
PFDoA	307-55-1	48.3	0.419 J	G1667MSD-FS(0)	1.000	11/3/2020	47.2	101		72	134	2.0		≤ 30
PFTrDA	72629-94-8	130	4.00 J	G1667MSD-FS(0)	1.000	11/3/2020	47.2	267	N	65	144	9.8		≤ 30
PFTeDA	376-06-7	46.9	1.82 U	G1667MSD-FS(0)	1.000	11/3/2020	47.2	99		71	132	2.0		≤ 30
NMeFOSAA	2355-31-9	51.9	0.909 U	G1667MSD-FS(0)	1.000	11/3/2020	47.2	110		65	136	5.6		≤ 30
NEtFOSAA	2991-50-6	47.2	0.909 U	G1667MSD-FS(0)	1.000	11/3/2020	47.2	100		61	135	11.6		≤ 30
PFBS	375-73-5	118	64.1	G1667MSD-FS(0)	1.000	11/3/2020	47.2	114		72	130	25.7		≤ 30
PFHxS	355-46-4	1110 D	1130 D	G1667MSD-FS-D(7)	31.250	11/3/2020	47.6	0	N	68	131	200.0	N	≤ 30
PFOS	1763-23-1	2840 D	4050 D	G1667MSD-FS-D(9)	78.125	11/3/2020	47.6	0	N	65	140	0.0		≤ 30
HFPO-DA	13252-13-6	35.2	0.455 U	G1667MSD-FS(0)	1.000	11/3/2020	47.2	75		74	148	1.3		≤ 30
Adona	919005-14-4	34.1	0.909 U	G1667MSD-FS(0)	1.000	11/3/2020	47.2	72		61	143	7.2		≤ 30
9Cl-PF3ONS	756426-58-1	62.5	0.455 U	G1667MSD-FS(0)	1.000	11/3/2020	47.2	132		52	158	6.6		≤ 30
11Cl-PF3OUdS	763051-92-9	42.2	0.909 U	G1667MSD-FS(0)	1.000	11/3/2020	47.2	89		59	147	28.0		≤ 30



Project Client: CH2M

Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
Project No.: 100142218**MS/MSD Background
Sample**

Client ID	CBD-AOA-SW10-1020-SD	CBD-AOA-SW10-1020
Battelle ID	G1667MSD-FS	G1665-FS
Sample Type	MSD	SA
Collection Date	10/13/2020	10/13/2020
Extraction Date	10/21/2020	10/21/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS	Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	60 D	G1667MSD-FS-D(3)	11/3/2020
13C4-PFHpA	54 D	G1667MSD-FS-D(3)	11/3/2020
13C8-PFOA	69 D	G1667MSD-FS-D(3)	11/3/2020
13C9-PFNA	76 D	G1667MSD-FS-D(3)	11/3/2020
13C6-PFDA	68	G1667MSD-FS(0)	11/3/2020
13C7-PFUnA	52	G1667MSD-FS(0)	11/3/2020
13C2-PFDoA	32 N	G1667MSD-FS(0)	11/3/2020
13C2-PFTeDA	4 N	G1667MSD-FS(0)	11/3/2020
d3-MeFOSAA	91 D	G1667MSD-FS-D(9)	11/3/2020
d5-EtFOSAA	93 D	G1667MSD-FS-D(9)	11/3/2020
13C3-PFBS	87 D	G1667MSD-FS-D(9)	11/3/2020
13C3-PFHxS	89 D	G1667MSD-FS-D(9)	11/3/2020
13C8-PFOS	96 D	G1667MSD-FS-D(9)	11/3/2020
13C3-HFPO-DA	62 D	G1667MSD-FS-D(3)	11/3/2020



Glossary of Data Qualifiers

Flag: Application:

B	Analyte found in the sample at a concentration <10x the level found in the procedural blank
D	Dilution Run. Initial run outside the initial calibration range of the instrument
E	Estimate, result is greater than the highest concentration level in the calibration
J	Analyte detected below the Limit of Quantitation (LOQ)
MI	Significant Matrix Interference - value could not be determined.
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not Applicable
T	Holding Time (HT) exceeded
U	Analyte not detected or detected below the Detection Limit (DL) value, Limit of Detection (LOD) reported
Q	Ion ratio outside of criteria (50% difference from calibration expected ratio)

Miscellaneous Documentation

QA/QC Summary
Batch 20-1298

Project:	CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
Client Project Manager:	Michael Zamboni
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	AQ, SW
Data Set:	DP-20-1178
Analytical SOP:	5-369
Method Reference:	PFAS to QSM 5.3 Table B-15

Sample Custody		
Collection Date	Receipt Date	Temp (°C)
10/13/2020	10/14/2020	1.0

Corrective Actions	None.
Sample Storage	The samples were stored refrigerated until extraction.
Related samples	Samples G1644-FS (CBD AOA-SW07-1020), G1645-FS (CBD-AOA-SW05-1020), G1646-FS (CBD-AOA-SW03-1020), G1647-FS (CBD-AOA-SW04-1020), G1651-FS (CBD-AOA-SW02-1020), G1654-FS (CBD-AOA-SW01-1020), G1661-FS (CBD-AOA-SW06-1020) and G1668-FS (CBD-AOA-SW09-1020) are re-extracted in SDG 20-1419 to verify extracted internal standard recoveries.

METHOD SUMMARIES	
Sample Preparation	Water samples were fortified with surrogates in the original sample container from the field. The water was extracted using a weak-anion exchange (WAX) solid phase extraction (SPE) cartridge. Target analytes are eluted from the WAX SPE using methanol followed by 0.5% NH ₃ in methanol. Extracts were further refined using Envi-carb to remove co-extracted interferences. Extracts were concentrated to approximately 500 µL under nitrogen with a water bath set between 50 °C and 60 °C, reconstituted with methanol/water and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis in 80:20 methanol/water (V/V).
Prep comments	<p>pH of all samples prior to SPE extraction was verified between 6 and 8.</p> <p>Samples G1644-FS (CBD-AOA-SW07-1020), G1646-FS (CBD-AOA-SW03-1020), G1647-FS (CBD-AOA-SW04-1020), G1658-FS (CBD-AOA-SW08-1020), G1661-FS (CBD-AOA-SW06-1020), G1665-FS (CBD-AOA-SW10-1020), G1666MS-FS (CBD-AOA-SW10-1020-MS), and G1667MSD-FS (CBD-AOA-SW10-1020-SD) contained particulates.</p> <p>Sample G1654-FS (CBD-AOA-SW01-1020) contained vegetation.</p> <p>Samples DA891PB-FS (Procedural Blank), DA892LCS-FS (Laboratory Control Sample), and G1668-FS (CBD-AOA-SW09-1020) were fortified with extracted internal standards, shaken, and transferred to a new HDPE bottle. The samples were centrifuged at 3,500 RPM for five minutes. The supernatant was then decanted back into the original sample container prior to extraction. This procedure was performed due to the level of particulate matter present in the field samples centrifuged.</p>

**QA/QC Summary
Batch 20-1298**

	<p>Samples G1645-FS (CBD-AOA-SW05-1020), G1651-FS (CBD-AOA-SW02-1020), G1652-FS (CBD-AOA-SW02P-1020), G1654-FS (CBD-AOA-SW01-1020), G1663-FS (CBD-AOA-SW11-1020), and G1664-FS (CBD-AOA-SW11P-1020) clogged the top filter of the SPE cartridge during extraction. The filter was popped and left inside the cartridge for the remainder of the extraction and elution procedure</p>
Analysis	<p>PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations to three (3) significant figures.</p>
Analysis Comments	<p>Samples analyzed on Sciex 6500+ (AE) LC-MS/MS.</p> <p>MeFOSAA, EtFOSAA, PFHxS, and PFOS in the LCS, MS, MSD, and field samples when detected, were found and reported as a combination of the linear and branched isomers.</p> <p>Adona, 9Cl-PF3ONS, and 11Cl-PF3OUdS are quantified using 13C8-PFOA.</p> <p>13C9-PFNA is quantified using 13C4-PFOS.</p> <p>HFPO-DA in the level one of the calibration curve, which is equivalent to a sample concentration of 1.0 ng/L, or 1/5th the LOQ, was not used in the calibration curve. As the curve is not forced through zero and the sample equivalent is 1/5th the LOQ, there is no impact on the reported data excluding the lowest calibration point.</p> <p>HFPO-DA in the level one for the secondary transition of the calibration curve was not used in the calibration curve. The secondary transition is monitored solely for peak identification, not quantification. There is no impact on the reported data.</p> <p>Due to the potential contribution of high concentration of native compounds to labelled analogs, in cases where the native PFOA and PFOS are reported from a dilution, the extracted internal standards reported from 13C2-PFOA and 13C4-PFOS are reported from the same dilution level. In all other cases, the extracted internal standard is reported from the same dilution level as the native compound.</p> <p>Sample G1652-FS (CBD-AOA-SW02P-1020) is a field duplicate and was not re-extracted, however, sample G1651-FS (CBD-AOA-SW02-1020) was re-extracted as all extracted internal standards exceeded criteria.</p> <p>Samples G1663-FS (CBD-AOA-SW11-1020) and G1664-FS (CBD-AOA-SW11P-1020) are field replicates, that confirmed the extracted internal standard recoveries. These two samples were not re-extracted.</p>

**QA/QC Summary
Batch 20-1298**

Holding Times	Extraction Date(s)	Analysis Date(s)																																																																																							
	10/21/2020	10/30 and 11/2 – 3/2020																																																																																							
Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.																																																																																								
≤ ½ the LOQ Samples >10x PB	No exceedances noted.																																																																																								
	No comments.																																																																																								
Laboratory Control Spike (LCS)	A LCS was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.																																																																																								
Laboratory derived control limits for recovery	No exceedances noted.																																																																																								
	No comments.																																																																																								
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A MS/MSD was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.																																																																																								
Laboratory derived control limits for recovery and <30% RPD	Fourteen (14) recovery and five (5) precision exceedances noted.																																																																																								
	<p>All recoveries, except for PFTTrDA, are impacted by the concentrations in the background sample are above the concentration fortified into the MS/MSD samples.</p> <p>PFTTrDA in both the MS and MSD are recovered high due to the low recovery of the extracted internal standard 13C2-PFTeDA used to quantify PFTTrDA, which does not have a direct labeled analog. Any detections of PFTTrDA in samples (two above the LOD outside of the LCS, MS, and MSD) should be considered biased high.</p>																																																																																								
Extracted Internal Standard Analytes	Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.																																																																																								
50-150% of true value	Forty-seven (47) exceedances noted.																																																																																								
	<p>Thirteen samples had suppressed or enhanced recoveries for select extracted internal standards. The table below indicates if the extracted internal standard was within +/- 50% of the area of the L5 calibration point ("P") or if the area showed suppression ("↓") or enhancement ("↑") for these extracted internal standards.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>13C5-PFHxA</th> <th>13C4-PFHpA</th> <th>13C8-PFOA</th> <th>13C9-PFNA</th> <th>13C6-PFDA</th> <th>13C7-PFUnA</th> <th>13C2-PFDoA</th> </tr> </thead> <tbody> <tr> <td>G1644-FS (CBD-AOA-SW07-1020)</td> <td>↓</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>G1645-FS (CBD-AOA-SW05-1020)</td> <td>↓</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>G1646-FS (CBD-AOA-SW03-1020)</td> <td>↓</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>G1647-FS (CBD-AOA-SW04-1020)</td> <td>↓</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td>↓</td> </tr> <tr> <td>G1651-FS (CBD-AOA-SW02-1020)</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> </tr> <tr> <td>G1652-FS (CBD-AOA-SW02P-1020)</td> <td>↓</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>G1654-FS (CBD-AOA-SW01-1020)</td> <td>↓</td> <td>↓</td> <td>↓</td> <td></td> <td></td> <td>P</td> <td>↓</td> </tr> <tr> <td>G1661-FS (CBD-AOA-SW06-1020)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>↓</td> </tr> <tr> <td>G1667MSD-FS (CBD-AOA-SW10-1020-SD)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>↓</td> </tr> <tr> <td>G1668-FS (CBD-AOA-SW09-1020)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>↓</td> </tr> </tbody> </table>			13C5-PFHxA	13C4-PFHpA	13C8-PFOA	13C9-PFNA	13C6-PFDA	13C7-PFUnA	13C2-PFDoA	G1644-FS (CBD-AOA-SW07-1020)	↓	↓						G1645-FS (CBD-AOA-SW05-1020)	↓	↓						G1646-FS (CBD-AOA-SW03-1020)	↓	↓						G1647-FS (CBD-AOA-SW04-1020)	↓	↓					↓	G1651-FS (CBD-AOA-SW02-1020)	↓	↓	↓	↓	↓	↓	↓	G1652-FS (CBD-AOA-SW02P-1020)	↓	↓						G1654-FS (CBD-AOA-SW01-1020)	↓	↓	↓			P	↓	G1661-FS (CBD-AOA-SW06-1020)							↓	G1667MSD-FS (CBD-AOA-SW10-1020-SD)							↓	G1668-FS (CBD-AOA-SW09-1020)						
	13C5-PFHxA	13C4-PFHpA	13C8-PFOA	13C9-PFNA	13C6-PFDA	13C7-PFUnA	13C2-PFDoA																																																																																		
G1644-FS (CBD-AOA-SW07-1020)	↓	↓																																																																																							
G1645-FS (CBD-AOA-SW05-1020)	↓	↓																																																																																							
G1646-FS (CBD-AOA-SW03-1020)	↓	↓																																																																																							
G1647-FS (CBD-AOA-SW04-1020)	↓	↓					↓																																																																																		
G1651-FS (CBD-AOA-SW02-1020)	↓	↓	↓	↓	↓	↓	↓																																																																																		
G1652-FS (CBD-AOA-SW02P-1020)	↓	↓																																																																																							
G1654-FS (CBD-AOA-SW01-1020)	↓	↓	↓			P	↓																																																																																		
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G1668-FS (CBD-AOA-SW09-1020)							↓																																																																																		

**QA/QC Summary
Batch 20-1298**

	¹³ C2-PFTeDA	d3-MeFOSAA	d5-EtFOSAA	¹³ C3-PFBS	¹³ C3-PFHxS	¹³ C8-PFOS	¹³ C3-HFPO-DA
G1645-FS (CBD-AOA-SW05-1020)	↓						
G1646-FS (CBD-AOA-SW03-1020)	↓						
G1647-FS (CBD-AOA-SW04-1020)	↓						
G1651-FS (CBD-AOA-SW02-1020)	↓	↓	↓	↓	↓	↓	↓
G1652-FS (CBD-AOA-SW02P-1020)	↓						
G1654-FS (CBD-AOA-SW01-1020)	↓			↓		↓	↓
G1661-FS (CBD-AOA-SW06-1020)	↓						
G1663-FS (CBD-AOA-SW11-1020)	↓						
G1664-FS (CBD-AOA-SW11P-1020)	↓						
G1666MS-FS (CBD-AOA-SW10-1020-MS)	↓						
G1667MSD-FS (CBD-AOA-SW10-1020-SD)	↓						
G1668-FS (CBD-AOA-SW09-1020)	↓						

The remaining extracted internal standards in each impacted sample, fortified from the same solution, pass all criteria, suggesting that the suppression is matrix related to these analytes only. The sample extracts were re-analyzed for confirmation. The quant report for the confirmation analysis is included in the unused data section of the full data package.

Internal Standard Analytes	Labelled analog compounds were added prior to analysis.
+/- 50% of the area of the L4 calibration point.	No exceedances noted. There are 9 instances of ¹³ C4-PFOS in undiluted or low-level diluted extracts outside of criteria. In all cases the associated results were reported from higher level dilutions that pass IS area criteria and there was no impact on the reported data.
Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.
+/- 30% of true value, R ² ≥0.99	No exceedances noted. No comments.
Independent Calibration Check (ICC)	The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL.
+/- 30% of true value	No exceedances noted. No comments.
Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted. The following secondary transitions are outside of criteria: <ul style="list-style-type: none"> • HFPO-DA in LD76 CCV (11/3/2020 18:17:43) The secondary transition is monitored solely for peak identification, not quantification. There is no impact on the reported data.

QA/QC Summary
Batch 20-1298

Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
≤ ½ the LOQ	No exceedances noted.
	No comments.



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project Number: 100142218
 Preparation Batch: 20-1298
 Data Set: DP-20-1178
 Test Code: Master_369B

QC Parameter:	Exceed:	Justification:
Procedural Blank	0	None
PB Measurement Quality Objective	0	None
Laboratory Control Sample	0	None
Matrix Spike / Matrix Spike Duplicate Recovery	14	PFHxA, PFHpA, PFOA, PFNA, PFUnA, PFHxS and PFOS recoveries are impacted by the concentrations in the background sample are above the concentration fortified into the MS/MSD samples. PFTTrDA recoveries were confirmed by analyzing a fresh aliquot. DMS 11/4/2020
Matrix Spike / Matrix Spike Duplicate Precision	5	PFHxA, PFOA, PFNA, PFUnA, and PFHxS precision is impacted by the concentrations in the background sample are above the concentration fortified into the MS/MSD samples. DMS 11/4/2020
Extracted Internal Standard Analytes (Surrogates)	47	There are forty-seven extracted internal standard analytes that do not meet passing criteria. A fresh aliquot was taken, run and confirmed. Samples will be re-extracted in SDG 20-1419. DMS 11/4/2020
Instrument Calibration	0	None
Instrument Blank	0	None
Independent Calibration Check	0	None
Continuing Calibration Verification	0	None

BATTELLE

It can be done

BATTELLE - NORWELL OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

Project Title:	CTO-4532: NRL Chesapeake Bay Detac	Data Set Number:	DP-20-1178
Project Number:	100142218	Prep Batch Number:	20-1298
Entered By:	Denise Schumitz	Entered On:	11/04/2020
Test Code (Matrix Type):	Master_369B(L)		

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).
DMS 11/3/2020

ADONA, 9CI-PF3ONS and 11CI-PF3OUdS are being quantified off 13C8-PFOA instead of 13C3-HFPO-DA.
DMS 11/3/2020

Due to the potential contribution of high concentration of native compounds to labelled analogs, in cases where the native PFOA and PFOS are reported from a dilution, the extracted internal standards reported from 13C2-PFOA and 13C4-PFOS are reported from the same dilution level. In all other cases, the extracted internal standard is reported from the same dilution level as the native compound.
DMS 11/3/2020

HFPO-DA in the level one of the calibration curve, which is equivalent to a sample concentration of 1.0 ng/L, or 1/5th the LOQ, was not used in the calibration curve. As the curve is not forced through zero and the sample equivalent is 1/5th the LOQ, there is no impact on the reported data excluding the lowest calibration point.
DMS 11/3/2020

HFPO-DA in the level one for the secondary transition of the calibration curve was not used in the calibration curve. The secondary transition is monitored solely for peak identification, not quantification. There is no impact on the reported data.
DMS 11/3/2020

The following secondary transitions are outside of criteria:

- HFPO-DA in LD76 CCV (11/3/2020 18:17:43)

The secondary transition is monitored solely for peak identification, not quantification. There is no impact on the reported data.

Task Leader Approval:

Supervisor Approval:

PM Approval:



Digitally signed by Jonathan Thorn
Date: 2020.11.06 10:22:57 -05'00'

Example Calculation for PFAS

Calculation of final concentration from area:

$$\text{Concentration} = \left[\frac{PA - b}{m} \right] * C_{IS} * PIV * DF / S$$

Where:

PA = Area of target / area of internal standard

b = y intercept from calibration curve

CIS = concentration of internal standard (ng/L)

m = slope of calibration

DF = dilution factor

S = Sample Size

PIV = Pre-injection volume (L)

Sample ID: G1658-FS-D(7)
 Client Sample ID: CBD-AOA-SW08-1020
 Sample Size: 0.265
 Units: L
 Dilution Factor: 62.500
 PIV (L): 0.001
 Target Analyte: PFOS
 MRM Transition: 499.0 / 80.0
 Data file: AE_10292020_5-369.wiff
 Result table: 20-1298
 Area: 14,647,959.00
 IS Name: 13C8-PFOS
 IS Area: 226,959.42
 IS Amount (ng/L): 1195
 y-intercept: 0.0675
 slope: 3.66302

$$\text{Concentration} = \frac{[(14647959/226959.42) - 0.0675]}{3.66302} * 1195 * 0.001 * 62.5 / 0.265$$

$$\text{ng/L} = 4,960.63$$

*Final concentration may vary based on rounding.



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218
 Preparation Batch: 20-1298
 Data Set: DP-20-1178

		DA891PB-FS (Procedural Blank)	DA892LCS-FS (Laboratory Control Sample)	G1666MS-FS (CBD-AOA-SW10-1020-MS)	G1667MSD-FS (CBD-AOA-SW10-1020-SD)	G1644-FS (CBD-AOA-SW07-1020)	G1645-FS (CBD-AOA-SW05-1020)	G1646-FS (CBD-AOA-SW03-1020)	G1647-FS (CBD-AOA-SW04-1020)	G1651-FS (CBD-AOA-SW02-1020)	G1652-FS (CBD-AOA-SW02P-1020)	G1654-FS (CBD-AOA-SW01-1020)	G1655-FS (CBD-AOA-FB03-101320)	G1656-FS (CBD-AOA-EB01-101320-SW)	G1657-FS (CBD-AOA-EB01-101320-SD)	G1658-FS (CBD-AOA-SW08-1020)	G1661-FS (CBD-AOA-SW06-1020)	G1663-FS (CBD-AOA-SW11-1020)	G1664-FS (CBD-AOA-SW11P-1020)	G1665-FS (CBD-AOA-SW10-1020)	G1668-FS (CBD-AOA-SW09-1020)
PFHxA	307-24-4	-	L	L	L	L	L	L	L	L	L	L	-	-	-	L	L	L	L	L	L
PFHpA	375-85-9	-	L	L	L	L	L	L	L	L	L	L	-	-	-	L	L	L	L	L	L
PFOA	335-67-1	-	L	L	L	L	L	L	L	L	L	L	-	-	-	L	L	L	L	L	L
PFNA	375-95-1	-	L	L	L	L	L	L	L	L	L	L	-	-	-	L	L	L	L	L	L
PFDA	335-76-2	-	L	L	L	L	L	L	-	L	-	-	-	-	-	L	L	L	L	L	L
PFUnA	2058-94-8	-	L	L	L	L	L	L	L	L	L	L	-	-	-	L	L	L	L	L	L
PFDoA	307-55-1	-	L	L	L	-	-	-	-	-	-	-	-	-	-	L	L	L	L	L	L
PFTrDA	72629-94-8	-	L	L	L	-	-	-	-	-	-	-	-	-	-	L	L	L	L	L	L
PFTeDA	376-06-7	-	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NMeFOSAA	2355-31-9	-	L/Br	L/Br	L/Br	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEtFOSAA	2991-50-6	-	L/Br	L/Br	L/Br	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFBS	375-73-5	-	L	L	L	L	L	L	L	L	L	L	-	-	-	L	L	L	L	L	L
PFHxS	355-46-4	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	-	-	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFOS	1763-23-1	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	-	-	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
HFPO-DA	13252-13-6	-	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adona	919005-14-4	-	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9CI-PF3ONS	756426-58-1	-	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11CI-PF3OUdS	763051-92-9	-	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

"L": Linear
 "Br": branched
 "L/Br": Linear/Branched
 "-": Not detected

Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218



Passing criteria = 50% to 150% of internal standard area (compared to mid-point of calibration)

Sample Name	Sample ID	Analysis Date	13C3-PFBA	13C2-PFOA	13C2-PFDA	13C4-PFOS
LD77	L4	10/30/20 3:39	-	808,019.77	1,094,011.01	218,508.68
		Lower	-	404,009.89	547,005.51	109,254.34
		Upper	-	1,212,029.66	1,641,016.52	327,763.02

Sample Name	Sample ID	Analysis Date	13C3-PFBA	Qual	User	13C2-PFOA	Qual	User	13C2-PFDA	Qual	User	13C4-PFOS	Qual	User
LD74	L1	10/30/20 3:07	-			693,146.99			1,057,440.61			200,153.85		
LD75	L2	10/30/20 3:18	-			780,590.21			1,046,464.52			194,414.86		
LD76	L3	10/30/20 3:28	-			757,693.03			1,120,485.31			226,279.78		
LD77	L4	10/30/20 3:39	-			808,019.77			1,094,011.01			218,508.68		
LD78	L5	10/30/20 3:49	-			765,858.22			1,011,724.54			202,293.56		
LD79	L6	10/30/20 3:59	-			767,411.77			965,151.31			183,510.52		
LD80 IB	Instrument Blank	10/30/20 4:10	-			733,801.21			1,077,516.43			218,525.13		
LD81 ICC	ICC	10/30/20 4:20	-			772,983.68			1,091,658.34			226,332.68		
LD76 CCV	CCV	11/2/20 9:34	-			677,878.24			1,001,271.40			169,289.53		
LD80 IB	Instrument Blank	11/2/20 9:55	-			633,320.95			981,632.04			159,305.70		
LD77 CCV	CCV	11/2/20 22:17	-			854,433.38			1,173,469.05			205,112.33		
DA891PB-FS(0)	Procedural Blank	11/2/20 22:38	-			1,002,649.93			1,309,242.10			254,537.30		
DA892LCS-FS(0)	Laboratory Control Sample	11/2/20 22:48	-			943,306.20			1,234,212.55			218,338.86		
G1651-FS(0)	CBD-AOA-SW02-1020	11/2/20 22:59	-			770,980.79			1,057,483.62			166,530.67		
G1652-FS(0)	CBD-AOA-SW02P-1020	11/2/20 23:09	-			563,531.71			983,395.88			154,473.43		
G1654-FS(0)	CBD-AOA-SW01-1020	11/2/20 23:19	-			736,573.39			1,123,933.58			190,970.70		
G1655-FS(0)	CBD-AOA-FB03-101320	11/2/20 23:30	-			1,202,544.48			1,514,578.62			235,564.33		
G1656-FS(0)	CBD-AOA-EB01-101320-SW	11/2/20 23:40	-			1,070,170.06			1,401,703.80			222,996.39		
G1657-FS(0)	CBD-AOA-EB01-101320-SD	11/2/20 23:51	-			1,199,226.51			1,439,419.43			217,014.40		
LD76 CCV	CCV	11/3/20 0:12	-			762,968.86			1,186,301.21			222,505.79		
G1644-FS(0)	CBD-AOA-SW07-1020	11/3/20 0:22	-			558,725.03			919,134.96			114,314.62		
G1644-FS-D(3)	CBD-AOA-SW07-1020	11/3/20 0:33	-			841,228.12			1,170,834.12			191,111.51		
G1644-FS-D(5)	CBD-AOA-SW07-1020	11/3/20 0:43	-			867,022.43			1,247,435.25			196,888.15		
G1645-FS(0)	CBD-AOA-SW05-1020	11/3/20 0:54	-			661,319.63			1,048,107.26			108,907.26	N	1
G1645-FS-D(3)	CBD-AOA-SW05-1020	11/3/20 1:04	-			952,393.63			1,246,669.20			195,720.50		
G1646-FS(0)	CBD-AOA-SW03-1020	11/3/20 1:25	-			617,850.96			993,465.48			173,528.15		
G1646-FS-D(3)	CBD-AOA-SW03-1020	11/3/20 1:36	-			892,584.66			1,180,995.48			219,122.76		
LD77 CCV	CCV	11/3/20 1:57	-			815,726.64			1,133,823.98			227,551.27		
G1647-FS(0)	CBD-AOA-SW04-1020	11/3/20 2:07	-			632,018.65			1,052,901.32			170,125.57		
G1647-FS-D(3)	CBD-AOA-SW04-1020	11/3/20 2:17	-			871,929.17			1,304,496.55			227,071.28		
G1658-FS(0)	CBD-AOA-SW08-1020	11/3/20 2:28	-			542,410.66			928,601.85			61,708.50	N	1
G1658-FS-D(3)	CBD-AOA-SW08-1020	11/3/20 2:38	-			970,340.85			1,227,228.43			159,355.66		
G1658-FS-D(7)	CBD-AOA-SW08-1020	11/3/20 2:59	-			1,071,243.96			1,241,017.50			229,748.18		
G1668-FS(0)	CBD-AOA-SW09-1020	11/3/20 3:10	-			644,369.20			914,551.51			97,390.04	N	1
G1668-FS-D(3)	CBD-AOA-SW09-1020	11/3/20 3:20	-			1,015,786.75			1,352,422.53			201,650.13		
LD76 CCV	CCV	11/3/20 3:52	-			806,159.04			1,203,672.52			217,602.73		
G1661-FS(0)	CBD-AOA-SW06-1020	11/3/20 4:02	-			564,435.29			829,947.88			58,025.88	N	1
G1661-FS-D(3)	CBD-AOA-SW06-1020	11/3/20 4:13	-			1,008,937.38			1,274,282.74			159,570.78		
G1661-FS-D(5)	CBD-AOA-SW06-1020	11/3/20 4:23	-			1,119,127.91			1,303,439.33			212,384.31		
G1661-FS-D(7)	CBD-AOA-SW06-1020	11/3/20 4:34	-			929,985.82			1,324,502.91			241,820.58		
G1663-FS(0)	CBD-AOA-SW11-1020	11/3/20 4:44	-			567,690.55			881,468.26			62,573.20	N	1
G1663-FS-D(3)	CBD-AOA-SW11-1020	11/3/20 4:55	-			991,851.54			1,192,762.07			157,036.10		
G1663-FS-D(5)	CBD-AOA-SW11-1020	11/3/20 5:05	-			1,064,755.02			1,228,102.26			188,133.13		
G1663-FS-D(7)	CBD-AOA-SW11-1020	11/3/20 5:16	-			973,892.98			1,276,051.70			230,127.89		
LD77 CCV	CCV	11/3/20 5:37	-			846,225.52			1,214,355.92			229,977.24		
G1664-FS(0)	CBD-AOA-SW11P-1020	11/3/20 5:47	-			527,185.79			914,729.08			58,960.21	N	1
G1664-FS-D(3)	CBD-AOA-SW11P-1020	11/3/20 5:57	-			928,304.88			1,236,434.80			136,874.67		
G1664-FS-D(5)	CBD-AOA-SW11P-1020	11/3/20 6:08	-			962,241.27			1,228,225.93			187,668.46		
G1664-FS-D(7)	CBD-AOA-SW11P-1020	11/3/20 6:18	-			1,004,344.34			1,274,995.16			248,829.53		
G1665-FS(0)	CBD-AOA-SW10-1020	11/3/20 6:29	-			539,558.27			870,427.13			57,196.00	N	1
G1665-FS-D(3)	CBD-AOA-SW10-1020	11/3/20 6:39	-			1,029,046.76			1,270,981.80			158,055.43		
G1665-FS-D(7)	CBD-AOA-SW10-1020	11/3/20 7:00	-			1,071,171.12			1,366,157.02			224,105.31		
LD76 CCV	CCV	11/3/20 7:22	-			760,997.52			1,170,728.48			212,833.45		
G1666MS-FS(0)	CBD-AOA-SW10-1020-MS	11/3/20 7:32	-			603,225.07			904,797.25			79,573.99	N	1
G1666MS-FS-D(3)	CBD-AOA-SW10-1020-MS	11/3/20 7:43	-			1,053,698.66			1,201,875.21			146,523.03		
G1666MS-FS-D(7)	CBD-AOA-SW10-1020-MS	11/3/20 8:04	-			1,067,877.25			1,238,424.18			243,892.94		
G1667MSD-FS(0)	CBD-AOA-SW10-1020-SD	11/3/20 8:14	-			567,439.16			843,303.50			64,858.28	N	1
G1667MSD-FS-D(3)	CBD-AOA-SW10-1020-SD	11/3/20 8:24	-			937,329.07			1,154,510.80			167,344.57		
G1667MSD-FS-D(7)	CBD-AOA-SW10-1020-SD	11/3/20 8:45	-			1,072,088.52			1,279,904.53			252,784.58		
LD77 CCV	CCV	11/3/20 9:06	-			817,863.74			1,192,060.91			192,825.85		
LD76 CCV	CCV	11/3/20 18:17	-			691,881.13			1,029,120.31			172,525.93		

Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218



Passing criteria = 50% to 150% of internal standard area (compared to mid-point of calibration)						
Sample Name	Sample ID	Analysis Date	13C3-PFBA	13C2-PFOA	13C2-PFDA	13C4-PFOS
LD77	L4	10/30/20 3:39	-	808,019.77	1,094,011.01	218,508.68
		Lower	-	404,009.89	547,005.51	109,254.34
		Upper	-	1,212,029.66	1,641,016.52	327,763.02

Sample Name	Sample ID	Analysis Date	13C3-PFBA	Qual	User	13C2-PFOA	Qual	User	13C2-PFDA	Qual	User	13C4-PFOS	Qual	User
LD80 IB	Instrument Blank	11/3/20 18:38	-			675,070.20			999,867.40			185,352.71		
G1644 FS(0)	CBD-AOA-SW07-1020	11/3/20 18:59	-			539,261.38			857,035.93			100,950.14	N	2
G1645 FS(0)	CBD-AOA-SW05-1020	11/3/20 19:10	-			603,622.55			1,015,793.26			105,169.90	N	2
G1645-FS-D(7)	CBD-AOA-SW05-1020	11/3/20 19:20	-			949,964.83			1,228,811.03			232,013.86		
G1646 FS(0)	CBD-AOA-SW02-1020	11/3/20 19:30	-			580,950.06			988,302.13			162,625.14		2
G1647 FS(0)	CBD-AOA-SW04-1020	11/3/20 19:41	-			557,474.31			822,145.28			156,034.49		2
LD77 CCV	CCV	11/3/20 20:02	-			817,757.70			1,203,288.46			208,699.82		
G1651 FS(0)	CBD-AOA-SW02-1020	11/3/20 20:12	-			714,837.07			1,032,600.32			184,166.81		2
G1652 FS(0)	CBD-AOA-SW02P-1020	11/3/20 20:23	-			602,361.84			1,007,255.63			148,323.51		2
G1654 FS(0)	CBD-AOA-SW01-1020	11/3/20 20:33	-			733,256.32			1,248,032.45			209,112.47		2
G1661 FS(0)	CBD-AOA-SW06-1020	11/3/20 20:44	-			540,098.99			769,135.40			62,672.17	N	2
G1662 FS(0)	CBD-AOA-SW11-1020	11/3/20 20:54	-			566,179.12			876,927.48			66,172.59	N	2
G1663-FS-D(9)	CBD-AOA-SW11-1020	11/3/20 21:05	-			976,423.85			1,341,966.20			251,014.84		
G1664 FS(0)	CBD-AOA-SW11P-1020	11/3/20 21:15	-			519,830.56			934,060.96			63,078.49	N	2
G1665-FS-D(9)	CBD-AOA-SW10-1020	11/3/20 21:26	-			962,062.31			1,304,085.21			255,318.15		
G1666MS FS(0)	CBD-AOA-SW10-1020-MS	11/3/20 21:36	-			553,186.93			871,985.97			71,256.72	N	2
LD76 CCV	CCV	11/3/20 21:57	-			813,176.84			1,255,399.34			236,331.66		
G1666MS-FS-D(9)	CBD-AOA-SW10-1020-MS	11/3/20 22:07	-			871,007.51			1,346,301.52			248,197.49		
G1667MSD FS(0)	CBD-AOA-SW10-1020-SD	11/3/20 22:18	-			585,597.31			822,294.11			63,644.86	N	2
G1667MSD-FS-D(9)	CBD-AOA-SW10-1020-SD	11/3/20 22:28	-			914,321.06			1,352,804.73			245,806.93		
G1668 FS(0)	CBD-AOA-SW09-1020	11/3/20 22:39	-			694,677.04			923,316.68			97,834.39	N	2
G1668-FS-D(7)	CBD-AOA-SW09-1020	11/3/20 22:49	-			945,000.88			1,311,708.19			254,198.74		
LD77 CCV	CCV	11/3/20 23:10	-			873,930.00			1,276,759.54			234,236.90		

1. IS area outside of criteria, likely due to contribution from the native, extracted internal standards and natives reported from higher dilution. DMS 11/4/2020
2. Samples run for confirmation only. DMS 11/4/2020

Sample Name	LD78	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:49:29 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Asymmetry Factor	Passing Range
PFBS_1	298.9 / 80.0	1.32	1.36	0.8 – 1.5
PFHxA_1	313.0 / 269.0	1.57	1.31	0.8 – 1.5

Sample Name	LD79	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:59:58 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
PFBS_1	298.9 / 80.0	1.32	43	>10
PFBS_2	298.9 / 99.0	1.32	40	>10
PFHxA_1	313.0 / 269.0	1.57	54	>10
PFHxA_2	313.0 / 119.0	1.57	33	>10
PFHpA_1	363.0 / 319.0	1.90	48	>10
PFHpA_2	363.0 / 169.0	1.90	33	>10
PFHxS_1	399.0 / 80.0	1.91	39	>10
PFHxS_2	399.0 / 99.0	1.90	48	>10
PFOA_1	413.0 / 369.0	2.26	48	>10
PFOA_2	413.0 / 169.0	2.26	29	>10
PFNA_1	463.0 / 419.0	2.63	45	>10
PFNA_2	463.0 / 219.0	2.63	62	>10
PFOS_1	499.0 / 80.0	2.62	40	>10
PFOS_2	499.0 / 99.0	2.62	51	>10
PFDA_1	513.0 / 469.0	2.98	44	>10
PFDA_2	513.0 / 219.0	2.98	51	>10
PFUnA_1	563.0 / 519.0	3.30	61	>10
PFUnA_2	563.0 / 269.0	3.30	64	>10
PFDoA_1	613.0 / 569.0	3.59	67	>10
PFDoA_2	613.0 / 319.0	3.59	61	>10
PFTrDA_1	663.0 / 619.0	3.85	95	>10
PFTrDA_2	663.0 / 169.0	3.85	67	>10
PFTeDA_1	713.0 / 669.0	4.08	105	>10
PFTeDA_2	713.0 / 169.0	4.08	87	>10
NMeFOSAA_1	570.0 / 419.0	3.12	57	>10
NMeFOSAA_2	570.0 / 512.0	3.12	76	>10
NEtFOSAA_1	584.0 / 419.0	3.29	72	>10
NEtFOSAA_2	584.0 / 483.0	3.29	77	>10
HFPO-DA_1	285.0 / 169.0	1.66	45	>10
HFPO-DA_2	285.0 / 118.8	1.66	39	>10
ADONA_1	377.0 / 251.0	1.93	50	>10
ADONA_2	377.0 / 85.0	1.93	43	>10
9Cl-PF3ONS_1	531.0 / 351.0	2.83	57	>10
9Cl-PF3ONS_2	531.0 / 83.0	2.83	34	>10
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	63	>10
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	33	>10

Sample Name	LD79	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:59:58 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
13C2-PFDoA	615.0 / 570.0	3.59	48	>10
d3-MeFOSAA	573.0 / 419.0	3.12	32	>10
d5-EtFOSAA	589.0 / 419.0	3.29	40	>10
13C5-PFHxA	318.0 / 273.0	1.56	35	>10
13C4-PFHpA	367.0 / 322.0	1.89	33	>10
13C8-PFOA	421.0 / 376.0	2.25	40	>10
13C9-PFNA	472.0 / 427.0	2.62	37	>10
13C6-PFDA	519.0 / 474.0	2.98	52	>10
13C7-PFUnA	570.0 / 525.0	3.30	41	>10
13C2-PFTeDA	715.0 / 670.0	4.07	66	>10
13C3-PFBS	302.0 / 99.0	1.31	40	>10
13C3-PFHxS	402.0 / 99.0	1.90	39	>10
13C8-PFOS	507.0 / 99.0	2.62	31	>10
13C3-HFPO-DA	287.0 / 169.0	1.66	30	>10



Precision and Bias at the LOQ for PFAS in non-potable Water

Analyte	CAS No.	Average (ng/L)	ST DEV	2 Sigma	n ¹
PFBA	375-22-4	11.00	0.9226	1.85	14
PFPeA	2706-90-3	9.81	0.7228	1.45	11
PFHxA	307-24-4	9.88	1.1365	2.27	43
PFHpA	375-85-9	9.76	0.9225	1.85	43
PFOA	335-67-1	9.93	1.3923	2.78	44
PFNA	375-95-1	9.71	1.1236	2.25	43
PFDA	335-76-2	9.51	0.9842	1.97	43
PFUnA	2058-94-8	9.55	0.9267	1.85	43
PFDoA	307-55-1	10.22	0.9055	1.81	43
PFTTrDA	72629-94-8	9.93	1.2752	2.55	43
PFTeDA	376-06-7	10.39	0.9707	1.94	43
NMeFOSAA	2355-31-9	10.02	1.5564	3.11	43
NEtFOSAA	2991-50-6	9.55	1.4218	2.84	43
PFOSA	754-91-6	10.06	0.8394	1.68	11
PFBS	375-73-5	9.63	1.1816	2.36	43
PFPeS	2706-91-4	9.88	0.9203	1.84	5
PFHxS	355-46-4	9.90	1.1346	2.27	43
PFHpS	375-92-8	10.13	1.0851	2.17	11
PFOS	1763-23-1	9.78	1.2383	2.48	44
PFNS	68259-12-1	9.45	1.0923	2.18	5
PFDS	335-77-3	9.55	1.3140	2.63	11
4:2FTS	757124-72-4	10.38	1.7353	3.47	6
6:2FTS	27619-97-2	10.08	1.1871	2.37	12
8:2FTS	39108-34-4	9.59	1.4345	2.87	12
HFPO-DA	13252-13-6	10.92	1.4420	2.88	25
Adona	919005-14-4	10.38	1.4862	2.97	25
11Cl-PF3OUds	763051-92-9	9.80	1.5701	3.14	25
9Cl-PF3ONS	756426-58-1	9.52	1.0952	2.19	25

¹ Minimum of 20 samples required per QAM for determination of uncertainty, results including less than 20 data points are estimated.

BATTELLE DETECTION LIMITS FOR PFAS IN NON-POTABLE WATER

QSM 5.1.1 compliant with Table B-15 requirements

Analyte	CAS No.	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
PFBA	375-22-4	0.45	1.0	5.0
PFPeA	2706-90-3	0.26	1.0	5.0
PFHxA	307-24-4	0.53	1.5	5.0
PFHpA	375-85-9	0.26	1.0	5.0
PFOA	335-67-1	0.51	1.5	5.0
PFNA	375-95-1	0.31	1.0	5.0
PFDA	335-76-2	0.14	0.5	5.0
PFUnA	2058-94-8	0.22	0.5	5.0
PFDoA	307-55-1	0.19	0.5	5.0
PFTrDA	72629-94-8	0.15	0.5	5.0
PFTeDA	376-06-7	0.73	2.0	5.0
NMeFOSAA	2355-31-9	0.35	1.0	5.0
NEtFOSAA	2991-50-6	0.50	1.0	5.0
PFOSA	754-91-6	0.46	1.0	5.0
PFBS	375-73-5	0.14	0.5	5.0
PFPeS	2706-91-4	0.26	1.0	5.0
PFHxS	355-46-4	0.11	0.4	5.0
PFHpS	375-92-8	0.85	2.0	5.0
PFOS	1763-23-1	0.44	1.0	5.0
PFNS	68259-12-1	0.36	1.0	5.0
PFDS	335-77-3	0.27	1.0	5.0
4:2FTS	747124-72-4	0.50	1.0	5.0
6:2FTS	27619-97-2	0.53	1.5	5.0
8:2FTS	39108-34-4	0.60	2.0	5.0
3:3 FTCA	356-02-5	1.32	3.0	5.0
5:3 FTCA	914637-49-3	1.59	3.0	5.0
7:3 FTCA	812-70-4	1.40	3.0	5.0
HFPO-DA	13252-13-6	0.25	0.5	5.0
Adona	919005-14-4	0.27	1.0	5.0
11CI-PF3OUdS	763051-92-9	0.23	0.5	5.0
9CI-PF3ONS	756426-58-1	0.27	1.0	5.0

Analytes on ELAP QSM 5.1.1 Scope of accreditation

MDL calculated based on 40 CFR 136 (2017)

Analytical Transitions for PFAS in non-potable water, solid, and tissue

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
PFBA	375-22-4	Target	213.0 / 169.0	NA
PFPeA	2706-90-3	Target	263.0 / 219.0	NA
PFHxA	307-24-4	Target	313.0 / 269.0	313.0 / 119.0
PFHpA	375-85-9	Target	363.0 / 319.0	363.0 / 169.0
PFOA	335-67-1	Target	413.0 / 369.0	413.0 / 169.0
PFNA	375-95-1	Target	463.0 / 419.0	463.0 / 219.0
PFDA	335-76-2	Target	513.0 / 469.0	513.0 / 219.0
PFUnA	2058-94-8	Target	563.0 / 519.0	563.0 / 269.0
PFDoA	307-55-1	Target	613.0 / 569.0	613.0 / 319.0
PFTTrDA	72629-94-8	Target	663.0 / 619.0	663.0 / 169.0
PFTeDA	376-06-7	Target	713.0 / 669.0	713.0 / 169.0
NMeFOSAA	2355-31-9	Target	570.0 / 419.0	570.0 / 512.0
NEtFOSAA	2991-50-6	Target	584.0 / 419.0	584.0 / 483.0
PFOSA	754-91-6	Target	498.0 / 78.0	498.0 / 83.0
PFBS	375-73-5	Target	299.0 / 80.0	299.0 / 99.0
PFPeS	BDO-2114	Target	349.0 / 99.0	249.0 / 80.0
PFHxS	355-46-4	Target	399.0 / 80.0	399.0 / 99.0
PFHpS	375-99-6	Target	449.0 / 80.0	449.0 / 99.0
PFOS	1763-23-1	Target	499.0 / 80.0	499.0 / 99.0
PFNS	98789-57-2	Target	549.0 / 99.0	549.0 / 80.0
PFDS	2806-15-7	Target	599.0 / 80.0	599.0 / 99.0
4:2FTS	BDO-2205	Target	327.0 / 307.0	327.0 / 80.0
6:2FTS	27619-97-2	Target	427.0 / 407.0	427.0 / 81.0
8:2FTS	39108-34-4	Target	527.0 / 507.0	527.0 / 487.0
3:3 FTCA	356-02-5	Target	241.0 / 177.0	NA
5:3 FTCA	914637-49-3	Target	341.0 / 237.0	NA
7:3 FTCA	812-70-4	Target	441.0 / 337.0	NA
HFPO-DA	13252-13-6	Target	285.0 / 169.0	285.0 / 118.8
Adona	919005-14-4	Target	377.0 / 251.0	377.0 / 85.0
9CI-PF3ONS	756426-58-1	Target	531.0 / 351.0	531.0 / 83.0
11CI-PF3OUdS	763051-92-9	Target	631.0 / 451.0	631.0 / 83.0

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
13C4-PFBA	NA	SIS ¹	217.0 / 172.0	NA
13C5-PFPeA	NA	SIS ¹	268.0 / 223.0	NA
13C5-PFHxA	NA	SIS ¹	318.0 / 273.0	NA
13C4-PFHpA	NA	SIS ¹	367.0 / 322.0	NA
13C8-PFOA	NA	SIS ¹	421.0 / 376.0	NA
13C9-PFNA	NA	SIS ¹	472.0 / 427.0	NA
13C6-PFDA	NA	SIS ¹	519.0 / 474.0	NA
13C7-PFUnA	NA	SIS ¹	570.0 / 525.0	NA
13C2-PFDoA	NA	SIS ¹	615.0 / 570.0	NA
13C2-PFTeDA	NA	SIS ¹	715.0 / 670.0	NA
d3-MeFOSAA	NA	SIS ¹	573.0 / 419.0	NA
d5-EtFOSAA	NA	SIS ¹	589.0 / 419.0	NA
13C8-FOSA	NA	SIS ¹	506.0 / 78.0	NA
13C3-PFBS	NA	SIS ¹	302.0 / 99.0	NA
13C3-PFHxS	NA	SIS ¹	402.0 / 99.0	NA
13C8-PFOS	NA	SIS ¹	507.0 / 99.0	NA
13C2-4:2FTS	NA	SIS ¹	329.0 / 81.0	NA
13C2-6:2FTS	NA	SIS ¹	429.0 / 81.0	NA
13C2-8:2FTS	NA	SIS ¹	529.0 / 81.0	NA
¹³ C ₃ -HFPO-DA	NA	SIS	287.0 / 169.0	NA
13C3-PFBA	NA	IS ²	216.0 / 172.0	NA
13C2-PFOA	NA	IS ²	415.0 / 370.0	NA
13C2-PFDA	NA	IS ²	515.0 / 470.0	NA
13C4-PFOS	NA	IS ²	503.0 / 99.0	NA

¹ – extracted internal standard (surrogate)

² – injection internal standard



Non-Potable Water Calibration to Sample Equivalents

ICAL (ng/L)	PIV (mL)	DF ¹	Sample Size (L)	Sample Equivalent (ng/L) ²
125	1	1	0.250	0.5
250	1	1	0.250	1.0
500	1	1	0.250	2.0
1,000	1	1	0.250	4.0
2,500	1	1	0.250	10.0
10,000	1	1	0.250	40.0
25,000	1	1	0.250	100.0

¹ - base level dilution as part of the extraction procedure

² - calculated equivalent of a sample based on the ICAL concentration



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Triple Quad 6500+

LC/MS/MS Detector System

Appendix ZEFPM003-1S

Triple Quad 6500+ Preventive Maintenance Checklist

Preventive Maintenance Date:	
Request ID:	
Company Name:	
Instrument ID:	
Instrument Model:	
Instrument Serial Number:	

PASS **FAIL**

Any failure will lead to an automatic Service Call being open to investigate fault.

Preventive Maintenance is performed twice every year unless specified in the Service Contract. It is designed to help maintain optimum system performance and to help diagnose any system deficiencies.

Engineer is required the assigned Request ID for this PM otherwise making this job invalid.

Comments: _____

Performed By: _____ **Date:** _____

Approved By : _____ **Date:** _____



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Triple Quad 6500+

LC/MS/MS Detector System

Appendix ZEFPM003-1S

PRE-PM PPG PERFORMANCE EVALUATION:

- Consult the customer concerning the system overall performance.
- Check Logbook for services performed recently if available.
- Check Vacuum Pressure.

CAD Settings	Vacuum Reading (10 ⁻⁵ Torr)	Acceptance Criteria
<input type="checkbox"/> CAD 0		0.4 to 1.1 x 10 ⁻⁵ Torr
<input type="checkbox"/> CAD 12		2.4 to 4.1 x 10 ⁻⁵ Torr

- Check for Front end contamination symptoms. Run Q1 POS PPG using PPG 2e-7M for a few minutes and check for any TIC signal degradation or huge sensitivity drop where the sensitivity result can't pass specification.
 - No degradation or Sensitivity drop
- Check for Q3 contamination symptoms. Run Q3 POS PPG using PPG 2e-7M for a few minutes and check for any TIC signal degradation or huge sensitivity drop where the sensitivity result can't pass specification.
 - No degradation or Sensitivity drop

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Appendix ZEFPM003-1S

PPG Performance Test

(Make printouts showing all the peaks, intensities, peak widths, and mass shift values.)

Positive Mode: Masses for the peaks of interest are: 59.050, 175.133, 500.380, 616.464, 906.673, 1254.925, 1545.134, 1952.427.

High Mass Test

Perform High Mass Q1 POS using POS PPG 2e-7M (500:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Specs		
Q1 500.380		Read Only		Read Only
Q1 616.464		Read Only		Read Only
Q1 906.673		Read Only		Read Only
Q1 1952.427		Read Only		Read Only

Perform High Mass Q3 POS using POS PPG 2e-7M (500:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Specs		
Q3 500.380		Read Only		Read Only
Q3 616.464		Read Only		Read Only
Q3 906.673		Read Only		Read Only
Q3 1952.427		Read Only		Read Only

Low Mass Test

Perform Low Mass Q1 POS using POS PPG 2e-7M (500:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Specs		
Q1 175.133		Read Only		Read Only
Q1 500.380		Read Only		Read Only
Q1 616.464		Read Only		Read Only
Q1 906.673		Read Only		Read Only

Perform Low Mass Q3 POS using POS PPG 2e-7M (500:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Specs		
Q3 175.133		Read Only		Read Only
Q3 500.380		Read Only		Read Only
Q3 616.464		Read Only		Read Only
Q3 906.673		Read Only		Read Only

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Appendix ZEFPM003-1S

Preventive Maintenance Procedure

- Check cooling fans in mass spec if working. Replace them soon, if defective.
- Clean bench cooling fans if applicable. Replace them soon, if defective.
- Record AC input voltage while MS is OFF: _____ (200 to 240 Vac).
Notify customer if input voltage is out of range.
- After venting, clean Interface region:
 - Curtain Plate
 - Orifice Plate atmosphere side
 - Orifice Plate vacuum side
 - Ion Drive QJet and IQ0.
- Check Q0 for signs of arcing and clean with cleaning solvent.
- Replace Roughing Pump Oil.
- Clean oil exhaust Filter.

Replace if necessary. N/A
- Adjust Multiplier Voltage if necessary.
- Clean or replace Air Filters.
- Clean the turbo pump filter screen if applicable.
- Check Orifice resistances.

Replace it soon if out of resistance specifications. N/A
- Replace Electrode if necessary in Ion Drive Turbo V source.
- Check Turbo heaters resistances and their physical conditions in Ion Drive Turbo V source.

Replace the defective heaters if necessary. N/A
- Check the APCI heater resistance. Verify Temperature reaches setpoint

Replace the heater if necessary. N/A
- Turn on the mass spec and rough pumps for pumping down.
- Verify Temperature reaches setpoint in both TIS and APCI modes if applicable.

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Appendix ZEFPM003-1S

POST- PM PPG PERFORMANCE TESTS:

- Set-up PPG standard for infusion.
- Check spray and adjust sprayer's position of the Ion Drive Turbo V source.
- Check Vacuum Pressure:

CAD Settings	Vacuum Reading (10^{-5} Torr)	Acceptance Criteria
<input type="checkbox"/> CAD 0		0.4 to 1.1×10^{-5} Torr
<input type="checkbox"/> CAD 12		2.4 to 4.1×10^{-5} Torr

- Check for Front end contamination symptoms. Run Q1 POS PPG using PPG 2e-7M for a few minutes and check for any TIC signal degradation or huge sensitivity drop where the sensitivity result can't pass specification.
 - No degradation or Sensitivity drop
- Check for Q3 contamination symptoms. Run Q3 POS PPG using PPG 2e-7M for a few minutes and check for any TIC signal degradation or huge sensitivity drop where the sensitivity result can't pass specification.
 - No degradation or Sensitivity drop

PPG Performance Test

(Mass calibrate to less than 0.1 amu. Make printouts showing all the peaks, intensities, peak widths, and mass shift values.)

Positive Mode: Masses for the peaks of interest are: 59.050, 175.133, 500.380, 616.464, 906.673, 1254.925, 1545.134, 1952.427.

Negative Mode: Masses for the peaks of interest are: 44.998, 411.259, 585.385, 933.636, 1223.845, 1572.097, 1863.306, 1979.389.

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Appendix ZEFPM003-1S

High Mass Test

Perform High Mass Q1 POS using POS PPG 2e-7M (500:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Specs		
Q1 500.380		$\geq 3.2 \text{ }^{\text{e}}7$		0.6 to 0.8
Q1 616.464		$\geq 2.0 \text{ }^{\text{e}}7$		0.6 to 0.8
Q1 906.673		$\geq 9.6 \text{ }^{\text{e}}7$		0.6 to 0.8
Q1 1952.427		$\geq 2.4 \text{ }^{\text{e}}6$		0.6 to 0.8

Perform High Mass Q3 POS using POS PPG 2e-7M (500:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Specs		
Q3 500.380		$\geq 3.2 \text{ }^{\text{e}}7$		0.6 to 0.8
Q3 616.464		$\geq 2.0 \text{ }^{\text{e}}7$		0.6 to 0.8
Q3 906.673		$\geq 9.6 \text{ }^{\text{e}}7$		0.6 to 0.8
Q3 1952.427		$\geq 2.4 \text{ }^{\text{e}}6$		0.6 to 0.8

Perform MSMS POS in Product Ion scan with 907 parent and record daughter 175.1 using POS PPG 2e-7M (500:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	MSMS Intensity		MSMS Width Value	Width Specs
	Value	Spec		
MS/MS 175.1		Read Only		Read Only

Perform Q1 NEG using NEG PPG 3 x 10-5 M (10:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Specs		
Q1 933.636		$\geq 1.8 \text{ }^{\text{e}}7$		0.6 to 0.8
Q1 1863.306		$\geq 1.0 \text{ }^{\text{e}}6$		0.6 to 0.8

Perform Q3 NEG using NEG PPG 3 x 10-5 M (10:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Specs		
Q3 933.636		$\geq 1.8 \text{ }^{\text{e}}7$		0.6 to 0.8
Q3 1863.306		$\geq 1.0 \text{ }^{\text{e}}6$		0.6 to 0.8

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Appendix ZEFPM003-1S

Low Mass Test

- Perform Low Mass Q1 POS using POS PPG 2e-7M (500:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Specs		
Q1 175.133		$\geq 8.0 \text{ } ^e6$		0.6 to 0.8
Q1 500.380		$\geq 3.68 \text{ } ^e7$		0.6 to 0.8
Q1 616.464		$\geq 2.4 \text{ } ^e7$		0.6 to 0.8
Q1 906.673		$\geq 1.0 \text{ } ^e8$		0.6 to 0.8

- Perform Low Mass Q3 POS using POS PPG 2e-7M (500:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Specs		
Q3 175.133		$\geq 8.0 \text{ } ^e6$		0.6 to 0.8
Q3 500.380		$\geq 3.68 \text{ } ^e7$		0.6 to 0.8
Q3 616.464		$\geq 2.4 \text{ } ^e7$		0.6 to 0.8
Q3 906.673		$\geq 1.0 \text{ } ^e8$		0.6 to 0.8

- Perform Q1 NEG using NEG PPG 3 x 10-5 M (10:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Spec		
Q1 933.636		$\geq 1.8 \text{ } ^e7$		0.6 to 0.8

- Perform Q3 NEG using NEG PPG 3 x 10-5 M (10:1). Scan Rate 10 Da/s. Record 10 MCA.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Spec		
Q3 933.636		$\geq 1.8 \text{ } ^e7$		0.6 to 0.8

- Perform MSMS NEG in Product Ion scan with 933.6 parent and record daughter 45.0 using NEG PPG 3 x 10-5 M (10:1) at the scan rate of 10 Da/s for 10 MCA.

Mass	MSMS Intensity		MSMS Width Value	Width Specs
	Value	Spec		
MS/MS 45.0		Read Only		Read Only

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Appendix ZEFPM003-1S

REVIEW:

- Attach all printouts to this checklist.
- If any parameter setting access modes were changed during the PM, ensure that they are returned to their normal access mode and that their offsets are adjusted to match optimized values from the post-PM acquisition files.
- Empty tuning cache folder, if necessary. N/A
- Fill and replaced PM Label.

END OF PREVENTIVE MAINTENANCE PROCEDURE**Document history:**

04 OCT 2016: Appendix ZEFPM003-1S: New SOP Appendix.

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-01
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-02
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-03
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-04
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-05
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-06
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-07
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-08
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-09
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-10
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-11
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-12
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-13
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-14
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-15
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-16
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-17
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-18
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-19
LD44	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-20
LD43	PFAS - DoD Second Source LCS/MS Solution	-	-	-	200909-01
LD43	PFAS - DoD Second Source LCS/MS Solution	LC24	-	-	200811-01
LD43	PFAS - DoD Second Source LCS/MS Solution	LC24	-	-	200811-02
LD43	PFAS - DoD Second Source LCS/MS Solution	LC24	-	-	200811-03
LD56	PFAS - DoD Internal Standard Spiking Solution	LB75	-	-	200721-21
LD56	PFAS - DoD Internal Standard Spiking Solution	LB75	-	-	200721-22
LD56	PFAS - DoD Internal Standard Spiking Solution	LB75	-	-	200721-23
LD56	PFAS - DoD Internal Standard Spiking Solution	LB75	-	-	200721-24
LD74	PFAS - DoD Calibration L1	LB78	LB75	-	200721-21
LD74	PFAS - DoD Calibration L1	LB78	LB75	-	200721-22
LD74	PFAS - DoD Calibration L1	LB78	LB75	-	200721-23
LD74	PFAS - DoD Calibration L1	LB78	LB75	-	200721-24
LD74	PFAS - DoD Calibration L1	LC85	LC84	LC24	200811-01
LD74	PFAS - DoD Calibration L1	LC85	LC84	LC24	200811-02
LD74	PFAS - DoD Calibration L1	LC85	LC84	LC24	200811-03
LD74	PFAS - DoD Calibration L1	LC85	LC84	-	200914-01
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-01
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-02
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-03
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-04
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-05
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-06
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-07
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-08
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-09
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-10
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-11
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-12
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-13
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-14
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-15
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-16
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-17
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-18
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-19
LD74	PFAS - DoD Calibration L1	LD73	LB74	-	200721-20
LD75	PFAS - DoD Calibration L2	LB78	LB75	-	200721-21
LD75	PFAS - DoD Calibration L2	LB78	LB75	-	200721-22

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
LD75	PFAS - DoD Calibration L2	LB78	LB75	-	200721-23
LD75	PFAS - DoD Calibration L2	LB78	LB75	-	200721-24
LD75	PFAS - DoD Calibration L2	LC85	LC84	LC24	200811-01
LD75	PFAS - DoD Calibration L2	LC85	LC84	LC24	200811-02
LD75	PFAS - DoD Calibration L2	LC85	LC84	LC24	200811-03
LD75	PFAS - DoD Calibration L2	LC85	LC84	-	200914-01
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-01
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-02
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-03
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-04
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-05
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-06
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-07
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-08
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-09
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-10
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-11
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-12
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-13
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-14
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-15
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-16
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-17
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-18
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-19
LD75	PFAS - DoD Calibration L2	LD73	LB74	-	200721-20
LD76	PFAS - DoD Calibration L3	LB78	LB75	-	200721-21
LD76	PFAS - DoD Calibration L3	LB78	LB75	-	200721-22
LD76	PFAS - DoD Calibration L3	LB78	LB75	-	200721-23
LD76	PFAS - DoD Calibration L3	LB78	LB75	-	200721-24
LD76	PFAS - DoD Calibration L3	LC84	LC24	-	200811-01
LD76	PFAS - DoD Calibration L3	LC84	LC24	-	200811-02
LD76	PFAS - DoD Calibration L3	LC84	LC24	-	200811-03
LD76	PFAS - DoD Calibration L3	LC84	-	-	200914-01
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-01
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-02
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-03
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-04
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-05
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-06
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-07
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-08
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-09
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-10
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-11
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-12
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-13
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-14
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-15
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-16
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-17
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-18
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-19
LD76	PFAS - DoD Calibration L3	LD73	LB74	-	200721-20
LD77	PFAS - DoD Calibration L4	LB78	LB75	-	200721-21
LD77	PFAS - DoD Calibration L4	LB78	LB75	-	200721-22
LD77	PFAS - DoD Calibration L4	LB78	LB75	-	200721-23
LD77	PFAS - DoD Calibration L4	LB78	LB75	-	200721-24

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
LD77	PFAS - DoD Calibration L4	LC84	LC24	-	200811-01
LD77	PFAS - DoD Calibration L4	LC84	LC24	-	200811-02
LD77	PFAS - DoD Calibration L4	LC84	LC24	-	200811-03
LD77	PFAS - DoD Calibration L4	LC84	-	-	200914-01
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-01
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-02
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-03
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-04
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-05
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-06
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-07
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-08
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-09
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-10
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-11
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-12
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-13
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-14
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-15
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-16
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-17
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-18
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-19
LD77	PFAS - DoD Calibration L4	LD73	LB74	-	200721-20
LD78	PFAS - DoD Calibration L5	LB78	LB75	-	200721-21
LD78	PFAS - DoD Calibration L5	LB78	LB75	-	200721-22
LD78	PFAS - DoD Calibration L5	LB78	LB75	-	200721-23
LD78	PFAS - DoD Calibration L5	LB78	LB75	-	200721-24
LD78	PFAS - DoD Calibration L5	LC84	LC24	-	200811-01
LD78	PFAS - DoD Calibration L5	LC84	LC24	-	200811-02
LD78	PFAS - DoD Calibration L5	LC84	LC24	-	200811-03
LD78	PFAS - DoD Calibration L5	LC84	-	-	200914-01
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-01
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-02
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-03
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-04
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-05
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-06
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-07
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-08
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-09
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-10
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-11
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-12
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-13
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-14
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-15
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-16
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-17
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-18
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-19
LD78	PFAS - DoD Calibration L5	LD73	LB74	-	200721-20
LD79	PFAS - DoD Calibration L6	LB78	LB75	-	200721-21
LD79	PFAS - DoD Calibration L6	LB78	LB75	-	200721-22
LD79	PFAS - DoD Calibration L6	LB78	LB75	-	200721-23
LD79	PFAS - DoD Calibration L6	LB78	LB75	-	200721-24
LD79	PFAS - DoD Calibration L6	LC84	LC24	-	200811-01
LD79	PFAS - DoD Calibration L6	LC84	LC24	-	200811-02

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
LD79	PFAS - DoD Calibration L6	LC84	LC24	-	200811-03
LD79	PFAS - DoD Calibration L6	LC84	-	-	200914-01
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-01
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-02
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-03
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-04
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-05
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-06
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-07
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-08
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-09
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-10
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-11
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-12
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-13
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-14
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-15
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-16
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-17
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-18
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-19
LD79	PFAS - DoD Calibration L6	LD73	LB74	-	200721-20
LD81	PFAS - DoD ICC	LB78	LB75	-	200721-21
LD81	PFAS - DoD ICC	LB78	LB75	-	200721-22
LD81	PFAS - DoD ICC	LB78	LB75	-	200721-23
LD81	PFAS - DoD ICC	LB78	LB75	-	200721-24
LD81	PFAS - DoD ICC	LD43	LC24	-	200811-01
LD81	PFAS - DoD ICC	LD43	LC24	-	200811-02
LD81	PFAS - DoD ICC	LD43	LC24	-	200811-03
LD81	PFAS - DoD ICC	LD43	-	-	200909-01
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-01
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-02
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-03
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-04
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-05
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-06
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-07
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-08
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-09
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-10
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-11
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-12
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-13
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-14
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-15
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-16
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-17
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-18
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-19
LD81	PFAS - DoD ICC	LD73	LB74	-	200721-20



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LB74**

Description: PFAS - DoD SIS Stock

Stock Id: 200721-01	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C4-PFBA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-02	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C5-PFPeA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-03	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C5-PFHxA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-04	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C4-PFHpA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-05	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C8-PFOA	1000	48.90	1	97.800	1	50	0.97800
Stock Id: 200721-06	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C9-PFNA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-07	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C6-PFDA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-08	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C7-PFUnA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-09	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C2-PFDoA	1000	50.00	1	98.000	1	50	1.00000

Solution Prepared By: Schultz, Stephanie Date Prepared: 7/21/2020 Expiration Date: 7/21/2021

Solution Volume : 40 mL X 5 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121

Comment: 96/4 methanol/milli-q water (RP-200722-1)

Approved By: Schumitz, Denise Date: 7/23/2020 11:25:00 AM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LB74**

Description: PFAS - DoD SIS Stock

Stock Id: 200721-10	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C2-PFTeDA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-11	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C2-4:2FTS	1000	46.70	1	98.000	1	50	0.93400
Stock Id: 200721-12	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C2-6:2FTS	1000	47.50	1	98.000	1	50	0.95000
Stock Id: 200721-13	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C2-8:2FTS	1000	47.90	1	98.000	1	50	0.95800
Stock Id: 200721-14	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C3-PFBS	1000	46.50	1	98.000	1	50	0.93000
Stock Id: 200721-15	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C3-PFHxS	1000	47.30	1	98.000	1	50	0.94600
Stock Id: 200721-16	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	13C8-PFOS	1000	47.80	1	98.000	1	50	0.95600
Stock Id: 200721-17	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	d3-MeFOSAA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-18	Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
	d5-EtFOSAA	1000	50.00	1	98.000	1	50	1.00000

Solution Prepared By: Schultz, Stephanie Date Prepared: 7/21/2020 Expiration Date: 7/21/2021

Solution Volume : 40 mL X 5 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121

Comment: 96/4 methanol/milli-q water (RP-200722-1)

Approved By: Schumitz, Denise Date: 7/23/2020 11:25:00 AM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LB74**

Description: PFAS - DoD SIS Stock

Stock Id: 200721-19

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C8-FOSA	1000	50.00	1	98.000	1	50	1.00000

Stock Id: 200721-20

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C3-HFPO-DA	1000	50.00	1	98.000	1	50	1.00000

Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.93400
13C2-6:2FTS	.95000
13C2-8:2FTS	.95800
13C2-PFDoA	1.00000
13C2-PFTeDA	1.00000
13C3-HFPO-DA	1.00000
13C3-PFBS	.93000
13C3-PFHxS	.94600
13C4-PFBA	1.00000
13C4-PFHpA	1.00000
13C5-PFHxA	1.00000
13C5-PFPeA	1.00000
13C6-PFDA	1.00000
13C7-PFUnA	1.00000
13C8-FOSA	1.00000
13C8-PFOA	.97800
13C8-PFOS	.95600
13C9-PFNA	1.00000
d3-MeFOSAA	1.00000
d5-EtFOSAA	1.00000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
200721-01	Pipette	B820865811
200721-02	Pipette	B820865811
200721-03	Pipette	B820865811
200721-04	Pipette	B820865811

Solution Prepared By: Schultz, Stephanie Date Prepared: 7/21/2020 Expiration Date: 7/21/2021

Solution Volume : 40 mL X 5 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121

Comment: 96/4 methanol/milli-q water (RP-200722-1)

Approved By: Schumitz, Denise Date: 7/23/2020 11:25:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LB74

Description: PFAS - DoD SIS Stock

200721-05	Pipette	B820865811
200721-06	Pipette	B820865811
200721-07	Pipette	B820865811
200721-08	Pipette	B820865811
200721-09	Pipette	B820865811
200721-10	Pipette	B820865811
200721-11	Pipette	B820865811
200721-12	Pipette	B820865811
200721-13	Pipette	B820865811
200721-14	Pipette	B820865811
200721-15	Pipette	B820865811
200721-16	Pipette	B820865811
200721-17	Pipette	B820865811
200721-18	Pipette	B820865811
200721-19	Pipette	B820865811
200721-20	Pipette	B820865811

Solution Prepared By: Schultz, Stephanie	Date Prepared: 7/21/2020	Expiration Date: 7/21/2021
Solution Volume : 40 mL X 5 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121		

Comment: 96/4 methanol/milli-q water (RP-200722-1)

Approved By: Schumitz, Denise **Date:** 7/23/2020 11:25:00 AM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LB75**

Description: PFAS - DoD RIS Stock

Stock Id: 200721-21							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-22							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFOA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-23							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C3-PFBA	1000	50.00	1	98.000	1	50	1.00000
Stock Id: 200721-24							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C4-PFOS	1000	47.80	1	98.000	1	50	0.95600

Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-PFDA	1.00000
13C2-PFOA	1.00000
13C3-PFBA	1.00000
13C4-PFOS	.95600

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
200721-21	Pipette	B820865811
200721-22	Pipette	B820865811
200721-23	Pipette	B820865811
200721-24	Pipette	B820865811

Solution Prepared By: Schultz, Stephanie Date Prepared: 7/21/2020 Expiration Date: 7/21/2021

Solution Volume : 40 mL X 5 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0123

Comment: 96/4 methanol/milli-q water (RP-200722-1)

Approved By: Schumitz, Denise Date: 7/23/2020 11:25:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LB78

Description: PFAS - DoD Internal Standard Stock Solution

Stock Id: LB75

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	5000	1.00	---	---	1	50	0.10000
13C2-PFOA	5000	1.00	---	---	1	50	0.10000
13C3-PFBA	5000	1.00	---	---	1	50	0.10000
13C4-PFOS	5000	0.96	---	---	1	50	0.09560

Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-PFDA	.10000
13C2-PFOA	.10000
13C3-PFBA	.10000
13C4-PFOS	.09560

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB75	Pipette	B906204506

Solution Prepared By: Schultz, Stephanie **Date Prepared:** 7/21/2020 **Expiration Date:** 7/21/2021

Solution Volume : 40 mL X 5 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 96/4 methanol/milli-q water (RP-200722-1)

Approved By: Schumitz, Denise **Date:** 7/23/2020 11:25:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LC24

Description: PFAS - FTCA Stock

Stock Id: 200811-01							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
3-perfluoropropyl propanoic Acid	1000	50.00	1	98.000	1	10	5.00000
Stock Id: 200811-02							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
3-Perfluoroheptyl propanoic acid	1000	50.00	1	98.000	1	10	5.00000
Stock Id: 200811-03							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
3-Perfluoropentyl propanoic acid	1000	50.00	1	98.000	1	10	5.00000

Final Concentrations:

Analyte:	Conc (ug/mL):
3-Perfluoroheptyl propanoic acid	5.00000
3-Perfluoropentyl propanoic acid	5.00000
3-perfluoropropyl propanoic Acid	5.00000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
200811-01	Pipette	B909301606
200811-02	Pipette	B909301606
200811-03	Pipette	B909301606

Solution Prepared By: Bailey, Kevin **Date Prepared:** 8/11/2020 **Expiration Date:** 8/11/2021

Solution Volume : 40 mL X 1 Vials **Refrigerator/Freezer No:** LC Laboratory: Freezer - F0111

Comment:

Approved By: Schumitz, Denise **Date:** 8/12/2020 8:20:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LC84

Description: PFAS - DoD High ICAL Stock

Stock Id: 200914-01

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic aci	2000	1.00	1	100.000	1	20	0.10000
1H,1H,2H,2H-Perfluorodecane sulfonate	2000	1.01	1	100.000	1	20	0.10100
1H,1H,2H,2H-Perfluorohexane sulfonate	2000	1.00	1	100.000	1	20	0.10000
1H,1H,2H,2H-Perfluorooctane sulfonate	2000	1.00	1	100.000	1	20	0.10000
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	2000	1.00	1	100.000	1	20	0.10000
Adona	2000	1.00	1	100.000	1	20	0.10000
Hexafluoropropylene oxide dimer acid	2000	1.00	1	100.000	1	20	0.10000
N-ethylperfluoro-octanesulfonamidoacetic acid	2000	1.00	1	100.000	1	20	0.10000
N-methylperfluoro-1-octanesulfonamidoacetic acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-1-butanefluoride	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-1-decanesulfonate	2000	1.01	1	100.000	1	20	0.10100
Perfluoro-1-heptanesulfonate	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-1-hexanesulfonate	2000	1.01	1	100.000	1	20	0.10100
Perfluoro-1-nonanesulfonate	2000	1.01	1	100.000	1	20	0.10100
Perfluoro-1-octanesulfonamide	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-1-octanesulfonate	2000	1.01	1	100.000	1	20	0.10100
perfluoro-1-pentanesulfonate	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-butanoic Acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-decanoic Acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-dodecanoic acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-heptanoic Acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-hexanoic acid	2000	1.01	1	100.000	1	20	0.10100
Perfluoro-n-octanoic Acid	2000	1.00	1	100.000	1	20	0.10000
Perfluorononanoic Acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-pentanoic acid	2000	1.01	1	100.000	1	20	0.10100
Perfluoro-n-tetradecanoic acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-tridecanoic acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-undecanoic acid	2000	1.00	1	100.000	1	20	0.10000

Stock Id: LC24

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
3-Perfluoroheptyl propanoic acid	400	5.00	---	---	1	20	0.10000
3-Perfluoropentyl propanoic acid	400	5.00	---	---	1	20	0.10000
3-perfluoropropyl propanoic Acid	400	5.00	---	---	1	20	0.10000

Final Concentrations:

Solution Prepared By: Bailey, Kevin	Date Prepared: 9/15/2020	Expiration Date: 8/11/2021
Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121		

Comment: 96/4 methanol/milli-q (RP-200915-3)

Approved By: Schumitz, Denise **Date:** 9/16/2020 8:25:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LC84

Description: PFAS - DoD High ICAL Stock

Analyte:	Conc (ug/mL):
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	.10000
1H,1H,2H,2H-Perfluorodecane sulfonate	.10100
1H,1H,2H,2H-Perfluorohexane sulfonate	.10000
1H,1H,2H,2H-Perfluorooctane sulfonate	.10000
3-Perfluoroheptyl propanoic acid	.10000
3-Perfluoropentyl propanoic acid	.10000
3-perfluoropropyl propanoic Acid	.10000
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	.10000
Adona	.10000
Hexafluoropropylene oxide dimer acid	.10000
N-ethylperfluoro-octanesulfonamidoacetic acid	.10000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.10000
Perfluoro-1-butanedisulfonate	.10000
Perfluoro-1-decanedisulfonate	.10100
Perfluoro-1-heptanedisulfonate	.10000
Perfluoro-1-hexanedisulfonate	.10100
Perfluoro-1-nonanedisulfonate	.10100
Perfluoro-1-octanesulfonamide	.10000
Perfluoro-1-octanesulfonate	.10100
perfluoro-1-pentanesulfonate	.10000
Perfluoro-n-butanoic Acid	.10000
Perfluoro-n-decanoic Acid	.10000
Perfluoro-n-dodecanoic acid	.10000
Perfluoro-n-heptanoic Acid	.10000
Perfluoro-n-hexanoic acid	.10100
Perfluoro-n-octanoic Acid	.10000
Perfluorononanoic Acid	.10000
Perfluoro-n-pentanoic acid	.10100
Perfluoro-n-tetradecanoic acid	.10000
Perfluoro-n-tridecanoic acid	.10000
Perfluoro-n-undecanoic acid	.10000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
200914-01	Pipette	B1100330B
LC24	Pipette	B1100330B

Solution Prepared By: Bailey, Kevin **Date Prepared:** 9/15/2020 **Expiration Date:** 8/11/2021

Solution Volume : 40 mL X 1 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 96/4 methanol/milli-q (RP-200915-3)

Approved By: Schumitz, Denise **Date:** 9/16/2020 8:25:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LC85

Description: PFAS - DoD Low ICAL Stock

Stock Id: LC84

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic aci	500	0.10	---	---	1	5	0.01000
1H,1H,2H,2H-Perfluorodecane sulfonate	500	0.10	---	---	1	5	0.01010
1H,1H,2H,2H-Perfluorohexane sulfonate	500	0.10	---	---	1	5	0.01000
1H,1H,2H,2H-Perfluorooctane sulfonate	500	0.10	---	---	1	5	0.01000
3-Perfluoroheptyl propanoic acid	500	0.10	---	---	1	5	0.01000
3-Perfluoropentyl propanoic acid	500	0.10	---	---	1	5	0.01000
3-perfluoropropyl propanoic Acid	500	0.10	---	---	1	5	0.01000
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	500	0.10	---	---	1	5	0.01000
Adona	500	0.10	---	---	1	5	0.01000
Hexafluoropropylene oxide dimer acid	500	0.10	---	---	1	5	0.01000
N-ethylperfluoro-octanesulfonamidoacetic acid	500	0.10	---	---	1	5	0.01000
N-methylperfluoro-1-octanesulfonamidoacetic acid	500	0.10	---	---	1	5	0.01000
Perfluoro-1-butanefluoride	500	0.10	---	---	1	5	0.01000
Perfluoro-1-decanesulfonate	500	0.10	---	---	1	5	0.01010
Perfluoro-1-heptanesulfonate	500	0.10	---	---	1	5	0.01000
Perfluoro-1-hexanesulfonate	500	0.10	---	---	1	5	0.01010
Perfluoro-1-nonanesulfonate	500	0.10	---	---	1	5	0.01010
Perfluoro-1-octanesulfonamide	500	0.10	---	---	1	5	0.01000
Perfluoro-1-octanesulfonate	500	0.10	---	---	1	5	0.01010
perfluoro-1-pentanesulfonate	500	0.10	---	---	1	5	0.01000
Perfluoro-n-butanoic Acid	500	0.10	---	---	1	5	0.01000
Perfluoro-n-decanoic Acid	500	0.10	---	---	1	5	0.01000
Perfluoro-n-dodecanoic acid	500	0.10	---	---	1	5	0.01000
Perfluoro-n-heptanoic Acid	500	0.10	---	---	1	5	0.01000
Perfluoro-n-hexanoic acid	500	0.10	---	---	1	5	0.01010
Perfluoro-n-octanoic Acid	500	0.10	---	---	1	5	0.01000
Perfluorononanoic Acid	500	0.10	---	---	1	5	0.01000
Perfluoro-n-pentanoic acid	500	0.10	---	---	1	5	0.01010
Perfluoro-n-tetradecanoic acid	500	0.10	---	---	1	5	0.01000
Perfluoro-n-tridecanoic acid	500	0.10	---	---	1	5	0.01000
Perfluoro-n-undecanoic acid	500	0.10	---	---	1	5	0.01000

Final Concentrations:

Analyte:	Conc (ug/mL):
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	.01000
1H,1H,2H,2H-Perfluorodecane sulfonate	.01010

Solution Prepared By: Bailey, Kevin **Date Prepared:** 9/15/2020 **Expiration Date:** 8/11/2021

Solution Volume : 40 mL X 1 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 96/4 methanol/milli-q (RP-200915-3)

Approved By: Schumitz, Denise **Date:** 9/16/2020 8:25:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LC85

Description: PFAS - DoD Low ICAL Stock

1H,1H,2H,2H-Perfluorohexane sulfonate	.01000
1H,1H,2H,2H-Perfluorooctane sulfonate	.01000
3-Perfluoroheptyl propanoic acid	.01000
3-Perfluoropentyl propanoic acid	.01000
3-perfluoropropyl propanoic Acid	.01000
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	.01000
Adona	.01000
Hexafluoropropylene oxide dimer acid	.01000
N-ethylperfluoro-octanesulfonamidoacetic acid	.01000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.01000
Perfluoro-1-butanedisulfonate	.01000
Perfluoro-1-decanedisulfonate	.01010
Perfluoro-1-heptanedisulfonate	.01000
Perfluoro-1-hexanedisulfonate	.01010
Perfluoro-1-nonanedisulfonate	.01010
Perfluoro-1-octanesulfonamide	.01000
Perfluoro-1-octanedisulfonate	.01010
perfluoro-1-pentanedisulfonate	.01000
Perfluoro-n-butanedisulfonate	.01000
Perfluoro-n-decanedisulfonate	.01000
Perfluoro-n-dodecanedisulfonate	.01000
Perfluoro-n-heptanedisulfonate	.01000
Perfluoro-n-hexanedisulfonate	.01010
Perfluoro-n-octanedisulfonate	.01000
Perfluorononanedisulfonate	.01000
Perfluoro-n-pentanedisulfonate	.01010
Perfluoro-n-tetradecanedisulfonate	.01000
Perfluoro-n-tridecanedisulfonate	.01000
Perfluoro-n-undecanedisulfonate	.01000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LC84	Pipette	B1100330B

Solution Prepared By: Bailey, Kevin **Date Prepared:** 9/15/2020 **Expiration Date:** 8/11/2021

Solution Volume : 40 mL X 1 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 96/4 methanol/milli-q (RP-200915-3)

Approved By: Schumitz, Denise **Date:** 9/16/2020 8:25:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD43

Description: PFAS - DoD Second Source LCS/MS Solution

Stock Id: 200909-01

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic aci	2000	1.00	1	100.000	1	20	0.10000
1H,1H,2H,2H-Perfluorodecane sulfonate	2000	1.01	1	100.000	1	20	0.10100
1H,1H,2H,2H-Perfluorohexane sulfonate	2000	1.00	1	100.000	1	20	0.10000
1H,1H,2H,2H-Perfluorooctane sulfonate	2000	1.00	1	100.000	1	20	0.10000
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	2000	1.00	1	100.000	1	20	0.10000
Adona	2000	1.00	1	100.000	1	20	0.10000
Hexafluoropropylene oxide dimer acid	2000	1.00	1	100.000	1	20	0.10000
N-ethylperfluoro-octanesulfonamidoacetic acid	2000	1.00	1	100.000	1	20	0.10000
N-methylperfluoro-1-octanesulfonamidoacetic acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-1-butanefluoride	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-1-decanesulfonate	2000	1.01	1	100.000	1	20	0.10100
Perfluoro-1-heptanesulfonate	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-1-hexanesulfonate	2000	1.01	1	100.000	1	20	0.10100
Perfluoro-1-nonanesulfonate	2000	1.01	1	100.000	1	20	0.10100
Perfluoro-1-octanesulfonamide	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-1-octanesulfonate	2000	1.01	1	100.000	1	20	0.10100
perfluoro-1-pentanesulfonate	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-butanoic Acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-decanoic Acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-dodecanoic acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-heptanoic Acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-hexanoic acid	2000	1.01	1	100.000	1	20	0.10100
Perfluoro-n-octanoic Acid	2000	1.00	1	100.000	1	20	0.10000
Perfluorononanoic Acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-pentanoic acid	2000	1.01	1	100.000	1	20	0.10100
Perfluoro-n-tetradecanoic acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-tridecanoic acid	2000	1.00	1	100.000	1	20	0.10000
Perfluoro-n-undecanoic acid	2000	1.00	1	100.000	1	20	0.10000

Stock Id: LC24

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
3-Perfluoroheptyl propanoic acid	400	5.00	---	---	1	20	0.10000
3-Perfluoropentyl propanoic acid	400	5.00	---	---	1	20	0.10000
3-perfluoropropyl propanoic Acid	400	5.00	---	---	1	20	0.10000

Final Concentrations:

Solution Prepared By: Bailey, Kevin	Date Prepared: 10/6/2020	Expiration Date: 8/11/2021
Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121		

Comment: 80/20 methanol/milli-q (RP-201006-1)

Approved By: Schumitz, Denise **Date:** 10/8/2020 10:54:00 AM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LD43**

Description: PFAS - DoD Second Source LCS/MS Solution

Analyte:	Conc (ug/mL):
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	.10000
1H,1H,2H,2H-Perfluorodecane sulfonate	.10100
1H,1H,2H,2H-Perfluorohexane sulfonate	.10000
1H,1H,2H,2H-Perfluorooctane sulfonate	.10000
3-Perfluoroheptyl propanoic acid	.10000
3-Perfluoropentyl propanoic acid	.10000
3-perfluoropropyl propanoic Acid	.10000
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	.10000
Adona	.10000
Hexafluoropropylene oxide dimer acid	.10000
N-ethylperfluoro-octanesulfonamidoacetic acid	.10000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.10000
Perfluoro-1-butanedisulfonate	.10000
Perfluoro-1-decanedisulfonate	.10100
Perfluoro-1-heptanedisulfonate	.10000
Perfluoro-1-hexanedisulfonate	.10100
Perfluoro-1-nonanedisulfonate	.10100
Perfluoro-1-octanesulfonamide	.10000
Perfluoro-1-octanesulfonate	.10100
perfluoro-1-pentanesulfonate	.10000
Perfluoro-n-butanoic Acid	.10000
Perfluoro-n-decanoic Acid	.10000
Perfluoro-n-dodecanoic acid	.10000
Perfluoro-n-heptanoic Acid	.10000
Perfluoro-n-hexanoic acid	.10100
Perfluoro-n-octanoic Acid	.10000
Perfluorononanoic Acid	.10000
Perfluoro-n-pentanoic acid	.10100
Perfluoro-n-tetradecanoic acid	.10000
Perfluoro-n-tridecanoic acid	.10000
Perfluoro-n-undecanoic acid	.10000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
200909-01	Pipette	B820865811
LC24	Pipette	B820865811

Solution Prepared By: Bailey, Kevin Date Prepared: 10/6/2020 Expiration Date: 8/11/2021

Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121

Comment: 80/20 methanol/milli-q (RP-201006-1)

Approved By: Schumitz, Denise Date: 10/8/2020 10:54:00 AM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LD44**

Description: PFAS - DoD Low Level Labelled Extracted Internal Standard

Stock Id: **LB74**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	2000	0.93	---	---	1	200	0.00934
13C2-6:2FTS	2000	0.95	---	---	1	200	0.00950
13C2-8:2FTS	2000	0.96	---	---	1	200	0.00958
13C2-PFDoA	2000	1.00	---	---	1	200	0.01000
13C2-PFTeDA	2000	1.00	---	---	1	200	0.01000
13C3-HFPO-DA	2000	1.00	---	---	1	200	0.01000
13C3-PFBS	2000	0.93	---	---	1	200	0.00930
13C3-PFHxS	2000	0.95	---	---	1	200	0.00946
13C4-PFBA	2000	1.00	---	---	1	200	0.01000
13C4-PFHpA	2000	1.00	---	---	1	200	0.01000
13C5-PFHxA	2000	1.00	---	---	1	200	0.01000
13C5-PFPeA	2000	1.00	---	---	1	200	0.01000
13C6-PFDA	2000	1.00	---	---	1	200	0.01000
13C7-PFUnA	2000	1.00	---	---	1	200	0.01000
13C8-FOSA	2000	1.00	---	---	1	200	0.01000
13C8-PFOA	2000	0.98	---	---	1	200	0.00978
13C8-PFOS	2000	0.96	---	---	1	200	0.00956
13C9-PFNA	2000	1.00	---	---	1	200	0.01000
d3-MeFOSAA	2000	1.00	---	---	1	200	0.01000
d5-EtFOSAA	2000	1.00	---	---	1	200	0.01000

Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.00934
13C2-6:2FTS	.00950
13C2-8:2FTS	.00958
13C2-PFDoA	.01000
13C2-PFTeDA	.01000
13C3-HFPO-DA	.01000
13C3-PFBS	.00930
13C3-PFHxS	.00946
13C4-PFBA	.01000
13C4-PFHpA	.01000
13C5-PFHxA	.01000
13C5-PFPeA	.01000
13C6-PFDA	.01000

Solution Prepared By: Bailey, Kevin Date Prepared: 10/6/2020 Expiration Date: 7/21/2021

Solution Volume : 40 mL X 8 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121

Comment: 96/4 methanol/milli-q water (RP-201006-13)

Approved By: Schumitz, Denise Date: 10/7/2020 8:51:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD44

Description: PFAS - DoD Low Level Labelled Extracted Internal Standard

13C7-PFUnA	.01000
13C8-FOSA	.01000
13C8-PFOA	.00978
13C8-PFOS	.00956
13C9-PFNA	.01000
d3-MeFOSAA	.01000
d5-EtFOSAA	.01000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB74	Pipette	B820865811

Solution Prepared By: Bailey, Kevin **Date Prepared:** 10/6/2020 **Expiration Date:** 7/21/2021

Solution Volume : 40 mL X 8 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 96/4 methanol/milli-q water (RP-201006-13)

Approved By: Schumitz, Denise **Date:** 10/7/2020 8:51:00 AM



It can be done

Standard Solution Concentrations Approved:

Standard Laboratory ID Number: LD56
Description: PFAS - DoD Internal Standard Spiking Solution

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	2000	1.00	---	---	1	200	0.01000
13C2-PFOA	2000	1.00	---	---	1	200	0.01000
13C3-PFBA	2000	1.00	---	---	1	200	0.01000
13C4-PFOS	2000	0.96	---	---	1	200	0.00956

Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-PFDA	.01000
13C2-PFOA	.01000
13C3-PFBA	.01000
13C4-PFOS	.00956

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB75	Pipette	B820865811

Solution Prepared By: Bailey, Kevin	Date Prepared: 10/8/2020	Expiration Date: 7/21/2021
Solution Volume : 40 mL X 8 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121		

Comment:

Approved By: Schumitz, Denise **Date:** 10/9/2020 12:46:00 PM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LD73**

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

Stock Id: **LB74**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	5000	0.93	---	---	1	50	0.09340
13C2-6:2FTS	5000	0.95	---	---	1	50	0.09500
13C2-8:2FTS	5000	0.96	---	---	1	50	0.09580
13C2-PFDoA	5000	1.00	---	---	1	50	0.10000
13C2-PFTeDA	5000	1.00	---	---	1	50	0.10000
13C3-HFPO-DA	5000	1.00	---	---	1	50	0.10000
13C3-PFBS	5000	0.93	---	---	1	50	0.09300
13C3-PFHxS	5000	0.95	---	---	1	50	0.09460
13C4-PFBA	5000	1.00	---	---	1	50	0.10000
13C4-PFHpA	5000	1.00	---	---	1	50	0.10000
13C5-PFHxA	5000	1.00	---	---	1	50	0.10000
13C5-PFPeA	5000	1.00	---	---	1	50	0.10000
13C6-PFDA	5000	1.00	---	---	1	50	0.10000
13C7-PFUnA	5000	1.00	---	---	1	50	0.10000
13C8-FOSA	5000	1.00	---	---	1	50	0.10000
13C8-PFOA	5000	0.98	---	---	1	50	0.09780
13C8-PFOS	5000	0.96	---	---	1	50	0.09560
13C9-PFNA	5000	1.00	---	---	1	50	0.10000
d3-MeFOSAA	5000	1.00	---	---	1	50	0.10000
d5-EtFOSAA	5000	1.00	---	---	1	50	0.10000

Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.09340
13C2-6:2FTS	.09500
13C2-8:2FTS	.09580
13C2-PFDoA	.10000
13C2-PFTeDA	.10000
13C3-HFPO-DA	.10000
13C3-PFBS	.09300
13C3-PFHxS	.09460
13C4-PFBA	.10000
13C4-PFHpA	.10000
13C5-PFHxA	.10000
13C5-PFPeA	.10000
13C6-PFDA	.10000

Solution Prepared By: Bailey, Kevin Date Prepared: 10/22/2020 Expiration Date: 7/21/2021

Solution Volume : 40 mL X 5 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121

Comment: 96/4 methanol/milli-q (RP-201022-2)

Approved By: Schumitz, Denise Date: 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD73

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

13C7-PFUnA	.10000
13C8-FOSA	.10000
13C8-PFOA	.09780
13C8-PFOS	.09560
13C9-PFNA	.10000
d3-MeFOSAA	.10000
d5-EtFOSAA	.10000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB74	Pipette	B820865811

Solution Prepared By: Bailey, Kevin **Date Prepared:** 10/22/2020 **Expiration Date:** 7/21/2021

Solution Volume : 40 mL X 5 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 96/4 methanol/milli-q (RP-201022-2)

Approved By: Schumitz, Denise **Date:** 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD74

Description: PFAS - DoD Calibration L1

Stock Id: LB78

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	125	0.10	---	---	1	10	0.00125
13C2-PFOA	125	0.10	---	---	1	10	0.00125
13C3-PFBA	125	0.10	---	---	1	10	0.00125
13C4-PFOS	125	0.10	---	---	1	10	0.00119

Stock Id: LC85

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
3-Perfluoroheptyl propanoic acid	250	0.01	---	---	1	10	0.00025
3-Perfluoropentyl propanoic acid	250	0.01	---	---	1	10	0.00025
3-perfluoropropyl propanoic Acid	250	0.01	---	---	1	10	0.00025

Stock Id: LD73

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	125	0.09	---	---	1	10	0.00117
13C2-6:2FTS	125	0.10	---	---	1	10	0.00119
13C2-8:2FTS	125	0.10	---	---	1	10	0.00120
13C2-PFDoA	125	0.10	---	---	1	10	0.00125
13C2-PFTeDA	125	0.10	---	---	1	10	0.00125
13C3-HFPO-DA	125	0.10	---	---	1	10	0.00125
13C3-PFBS	125	0.09	---	---	1	10	0.00116
13C3-PFHxS	125	0.09	---	---	1	10	0.00118
13C4-PFBA	125	0.10	---	---	1	10	0.00125
13C4-PFHpA	125	0.10	---	---	1	10	0.00125
13C5-PFHxA	125	0.10	---	---	1	10	0.00125
13C5-PFPeA	125	0.10	---	---	1	10	0.00125
13C6-PFDA	125	0.10	---	---	1	10	0.00125
13C7-PFU _n A	125	0.10	---	---	1	10	0.00125
13C8-FOSA	125	0.10	---	---	1	10	0.00125
13C8-PFOA	125	0.10	---	---	1	10	0.00122
13C8-PFOS	125	0.10	---	---	1	10	0.00119
13C9-PFNA	125	0.10	---	---	1	10	0.00125
d3-MeFOSAA	125	0.10	---	---	1	10	0.00125
d5-EtFOSAA	125	0.10	---	---	1	10	0.00125

Final Concentrations:

Solution Prepared By: Bailey, Kevin	Date Prepared: 10/22/2020	Expiration Date: 7/21/2021
Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121		

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise Date: 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD74

Description: PFAS - DoD Calibration L1

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.00117
13C2-6:2FTS	.00119
13C2-8:2FTS	.00120
13C2-PFDA	.00125
13C2-PFDoA	.00125
13C2-PFOA	.00125
13C2-PFTeDA	.00125
13C3-HFPO-DA	.00125
13C3-PFBA	.00125
13C3-PFBS	.00116
13C3-PFHxS	.00118
13C4-PFBA	.00125
13C4-PFHpA	.00125
13C4-PFOS	.00119
13C5-PFHxA	.00125
13C5-PFPeA	.00125
13C6-PFDA	.00125
13C7-PFUnA	.00125
13C8-FOSA	.00125
13C8-PFOA	.00122
13C8-PFOS	.00119
13C9-PFNA	.00125
3-Perfluoroheptyl propanoic acid	.00025
3-Perfluoropentyl propanoic acid	.00025
3-perfluoropropyl propanoic Acid	.00025
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B814657482
LC85	Pipette	B814657482
LD73	Pipette	B814657482

Solution Prepared By: Bailey, Kevin **Date Prepared:** 10/22/2020 **Expiration Date:** 7/21/2021

Solution Volume : 40 mL X 1 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise **Date:** 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD75

Description: PFAS - DoD Calibration L2

Stock Id: LB78

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	125	0.10	---	---	1	10	0.00125
13C2-PFOA	125	0.10	---	---	1	10	0.00125
13C3-PFBA	125	0.10	---	---	1	10	0.00125
13C4-PFOS	125	0.10	---	---	1	10	0.00119

Stock Id: LC85

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
3-Perfluoroheptyl propanoic acid	500	0.01	---	---	1	10	0.00050
3-Perfluoropentyl propanoic acid	500	0.01	---	---	1	10	0.00050
3-perfluoropropyl propanoic Acid	500	0.01	---	---	1	10	0.00050

Stock Id: LD73

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	125	0.09	---	---	1	10	0.00117
13C2-6:2FTS	125	0.10	---	---	1	10	0.00119
13C2-8:2FTS	125	0.10	---	---	1	10	0.00120
13C2-PFDoA	125	0.10	---	---	1	10	0.00125
13C2-PFTeDA	125	0.10	---	---	1	10	0.00125
13C3-HFPO-DA	125	0.10	---	---	1	10	0.00125
13C3-PFBS	125	0.09	---	---	1	10	0.00116
13C3-PFHxS	125	0.09	---	---	1	10	0.00118
13C4-PFBA	125	0.10	---	---	1	10	0.00125
13C4-PFHpA	125	0.10	---	---	1	10	0.00125
13C5-PFHxA	125	0.10	---	---	1	10	0.00125
13C5-PFPeA	125	0.10	---	---	1	10	0.00125
13C6-PFDA	125	0.10	---	---	1	10	0.00125
13C7-PFU _n A	125	0.10	---	---	1	10	0.00125
13C8-FOSA	125	0.10	---	---	1	10	0.00125
13C8-PFOA	125	0.10	---	---	1	10	0.00122
13C8-PFOS	125	0.10	---	---	1	10	0.00119
13C9-PFNA	125	0.10	---	---	1	10	0.00125
d3-MeFOSAA	125	0.10	---	---	1	10	0.00125
d5-EtFOSAA	125	0.10	---	---	1	10	0.00125

Final Concentrations:

Solution Prepared By: Bailey, Kevin	Date Prepared: 10/22/2020	Expiration Date: 7/21/2021
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Solution Volume : 40 mL X 1 Vials	Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121
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Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise Date: 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD75

Description: PFAS - DoD Calibration L2

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.00117
13C2-6:2FTS	.00119
13C2-8:2FTS	.00120
13C2-PFDA	.00125
13C2-PFDoA	.00125
13C2-PFOA	.00125
13C2-PFTeDA	.00125
13C3-HFPO-DA	.00125
13C3-PFBA	.00125
13C3-PFBS	.00116
13C3-PFHxS	.00118
13C4-PFBA	.00125
13C4-PFHpA	.00125
13C4-PFOS	.00119
13C5-PFHxA	.00125
13C5-PFPeA	.00125
13C6-PFDA	.00125
13C7-PFUnA	.00125
13C8-FOSA	.00125
13C8-PFOA	.00122
13C8-PFOS	.00119
13C9-PFNA	.00125
3-Perfluoroheptyl propanoic acid	.00050
3-Perfluoropentyl propanoic acid	.00050
3-perfluoropropyl propanoic Acid	.00050
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B814657482
LC85	Pipette	B820865811
LD73	Pipette	B814657482

Solution Prepared By: Bailey, Kevin **Date Prepared:** 10/22/2020 **Expiration Date:** 7/21/2021

Solution Volume : 40 mL X 1 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise **Date:** 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD76

Description: PFAS - DoD Calibration L3

Stock Id: LB78

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	500	0.10	---	---	1	40	0.00125
13C2-PFOA	500	0.10	---	---	1	40	0.00125
13C3-PFBA	500	0.10	---	---	1	40	0.00125
13C4-PFOS	500	0.10	---	---	1	40	0.00119

Stock Id: LC84

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
3-Perfluoroheptyl propanoic acid	400	0.10	---	---	1	40	0.00100
3-Perfluoropentyl propanoic acid	400	0.10	---	---	1	40	0.00100
3-perfluoropropyl propanoic Acid	400	0.10	---	---	1	40	0.00100

Stock Id: LD73

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	500	0.09	---	---	1	40	0.00117
13C2-6:2FTS	500	0.10	---	---	1	40	0.00119
13C2-8:2FTS	500	0.10	---	---	1	40	0.00120
13C2-PFDoA	500	0.10	---	---	1	40	0.00125
13C2-PFTeDA	500	0.10	---	---	1	40	0.00125
13C3-HFPO-DA	500	0.10	---	---	1	40	0.00125
13C3-PFBS	500	0.09	---	---	1	40	0.00116
13C3-PFHxS	500	0.09	---	---	1	40	0.00118
13C4-PFBA	500	0.10	---	---	1	40	0.00125
13C4-PFHpA	500	0.10	---	---	1	40	0.00125
13C5-PFHxA	500	0.10	---	---	1	40	0.00125
13C5-PFPeA	500	0.10	---	---	1	40	0.00125
13C6-PFDA	500	0.10	---	---	1	40	0.00125
13C7-PFU _n A	500	0.10	---	---	1	40	0.00125
13C8-FOSA	500	0.10	---	---	1	40	0.00125
13C8-PFOA	500	0.10	---	---	1	40	0.00122
13C8-PFOS	500	0.10	---	---	1	40	0.00119
13C9-PFNA	500	0.10	---	---	1	40	0.00125
d3-MeFOSAA	500	0.10	---	---	1	40	0.00125
d5-EtFOSAA	500	0.10	---	---	1	40	0.00125

Final Concentrations:

Solution Prepared By: Bailey, Kevin	Date Prepared: 10/22/2020	Expiration Date: 7/21/2021
Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121		

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise Date: 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD76

Description: PFAS - DoD Calibration L3

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.00117
13C2-6:2FTS	.00119
13C2-8:2FTS	.00120
13C2-PFDA	.00125
13C2-PFDoA	.00125
13C2-PFOA	.00125
13C2-PFTeDA	.00125
13C3-HFPO-DA	.00125
13C3-PFBA	.00125
13C3-PFBS	.00116
13C3-PFHxS	.00118
13C4-PFBA	.00125
13C4-PFHpA	.00125
13C4-PFOS	.00119
13C5-PFHxA	.00125
13C5-PFPeA	.00125
13C6-PFDA	.00125
13C7-PFUnA	.00125
13C8-FOSA	.00125
13C8-PFOA	.00122
13C8-PFOS	.00119
13C9-PFNA	.00125
3-Perfluoroheptyl propanoic acid	.00100
3-Perfluoropentyl propanoic acid	.00100
3-perfluoropropyl propanoic Acid	.00100
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B820865811
LC84	Pipette	B820865811
LD73	Pipette	B820865811

Solution Prepared By: Bailey, Kevin **Date Prepared:** 10/22/2020 **Expiration Date:** 7/21/2021

Solution Volume : 40 mL X 1 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise **Date:** 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD77

Description: PFAS - DoD Calibration L4

Stock Id: LB78

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	500	0.10	---	---	1	40	0.00125
13C2-PFOA	500	0.10	---	---	1	40	0.00125
13C3-PFBA	500	0.10	---	---	1	40	0.00125
13C4-PFOS	500	0.10	---	---	1	40	0.00119

Stock Id: LC84

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
3-Perfluoroheptyl propanoic acid	1000	0.10	---	---	1	40	0.00250
3-Perfluoropentyl propanoic acid	1000	0.10	---	---	1	40	0.00250
3-perfluoropropyl propanoic Acid	1000	0.10	---	---	1	40	0.00250

Stock Id: LD73

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	500	0.09	---	---	1	40	0.00117
13C2-6:2FTS	500	0.10	---	---	1	40	0.00119
13C2-8:2FTS	500	0.10	---	---	1	40	0.00120
13C2-PFDoA	500	0.10	---	---	1	40	0.00125
13C2-PFTeDA	500	0.10	---	---	1	40	0.00125
13C3-HFPO-DA	500	0.10	---	---	1	40	0.00125
13C3-PFBS	500	0.09	---	---	1	40	0.00116
13C3-PFHxS	500	0.09	---	---	1	40	0.00118
13C4-PFBA	500	0.10	---	---	1	40	0.00125
13C4-PFHpA	500	0.10	---	---	1	40	0.00125
13C5-PFHxA	500	0.10	---	---	1	40	0.00125
13C5-PFPeA	500	0.10	---	---	1	40	0.00125
13C6-PFDA	500	0.10	---	---	1	40	0.00125
13C7-PFU _n A	500	0.10	---	---	1	40	0.00125
13C8-FOSA	500	0.10	---	---	1	40	0.00125
13C8-PFOA	500	0.10	---	---	1	40	0.00122
13C8-PFOS	500	0.10	---	---	1	40	0.00119
13C9-PFNA	500	0.10	---	---	1	40	0.00125
d3-MeFOSAA	500	0.10	---	---	1	40	0.00125
d5-EtFOSAA	500	0.10	---	---	1	40	0.00125

Final Concentrations:

Solution Prepared By: Bailey, Kevin	Date Prepared: 10/22/2020	Expiration Date: 7/21/2021
Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121		

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise Date: 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD77

Description: PFAS - DoD Calibration L4

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.00117
13C2-6:2FTS	.00119
13C2-8:2FTS	.00120
13C2-PFDA	.00125
13C2-PFDoA	.00125
13C2-PFOA	.00125
13C2-PFTeDA	.00125
13C3-HFPO-DA	.00125
13C3-PFBA	.00125
13C3-PFBS	.00116
13C3-PFHxS	.00118
13C4-PFBA	.00125
13C4-PFHpA	.00125
13C4-PFOS	.00119
13C5-PFHxA	.00125
13C5-PFPeA	.00125
13C6-PFDA	.00125
13C7-PFUnA	.00125
13C8-FOSA	.00125
13C8-PFOA	.00122
13C8-PFOS	.00119
13C9-PFNA	.00125
3-Perfluoroheptyl propanoic acid	.00250
3-Perfluoropentyl propanoic acid	.00250
3-perfluoropropyl propanoic Acid	.00250
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B820865811
LC84	Pipette	B820865811
LD73	Pipette	B820865811

Solution Prepared By: Bailey, Kevin **Date Prepared:** 10/22/2020 **Expiration Date:** 7/21/2021

Solution Volume : 40 mL X 1 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise **Date:** 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD78

Description: PFAS - DoD Calibration L5

Stock Id: LB78

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	125	0.10	---	---	1	10	0.00125
13C2-PFOA	125	0.10	---	---	1	10	0.00125
13C3-PFBA	125	0.10	---	---	1	10	0.00125
13C4-PFOS	125	0.10	---	---	1	10	0.00119

Stock Id: LC84

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
3-Perfluoroheptyl propanoic acid	1000	0.10	---	---	1	10	0.01000
3-Perfluoropentyl propanoic acid	1000	0.10	---	---	1	10	0.01000
3-perfluoropropyl propanoic Acid	1000	0.10	---	---	1	10	0.01000

Stock Id: LD73

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	125	0.09	---	---	1	10	0.00117
13C2-6:2FTS	125	0.10	---	---	1	10	0.00119
13C2-8:2FTS	125	0.10	---	---	1	10	0.00120
13C2-PFDoA	125	0.10	---	---	1	10	0.00125
13C2-PFTeDA	125	0.10	---	---	1	10	0.00125
13C3-HFPO-DA	125	0.10	---	---	1	10	0.00125
13C3-PFBS	125	0.09	---	---	1	10	0.00116
13C3-PFHxS	125	0.09	---	---	1	10	0.00118
13C4-PFBA	125	0.10	---	---	1	10	0.00125
13C4-PFHpA	125	0.10	---	---	1	10	0.00125
13C5-PFHxA	125	0.10	---	---	1	10	0.00125
13C5-PFPeA	125	0.10	---	---	1	10	0.00125
13C6-PFDA	125	0.10	---	---	1	10	0.00125
13C7-PFU _n A	125	0.10	---	---	1	10	0.00125
13C8-FOSA	125	0.10	---	---	1	10	0.00125
13C8-PFOA	125	0.10	---	---	1	10	0.00122
13C8-PFOS	125	0.10	---	---	1	10	0.00119
13C9-PFNA	125	0.10	---	---	1	10	0.00125
d3-MeFOSAA	125	0.10	---	---	1	10	0.00125
d5-EtFOSAA	125	0.10	---	---	1	10	0.00125

Final Concentrations:

Solution Prepared By: Bailey, Kevin	Date Prepared: 10/22/2020	Expiration Date: 7/21/2021
Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121		

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise Date: 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD78

Description: PFAS - DoD Calibration L5

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.00117
13C2-6:2FTS	.00119
13C2-8:2FTS	.00120
13C2-PFDA	.00125
13C2-PFDoA	.00125
13C2-PFOA	.00125
13C2-PFTeDA	.00125
13C3-HFPO-DA	.00125
13C3-PFBA	.00125
13C3-PFBS	.00116
13C3-PFHxS	.00118
13C4-PFBA	.00125
13C4-PFHpA	.00125
13C4-PFOS	.00119
13C5-PFHxA	.00125
13C5-PFPeA	.00125
13C6-PFDA	.00125
13C7-PFUnA	.00125
13C8-FOSA	.00125
13C8-PFOA	.00122
13C8-PFOS	.00119
13C9-PFNA	.00125
3-Perfluoroheptyl propanoic acid	.01000
3-Perfluoropentyl propanoic acid	.01000
3-perfluoropropyl propanoic Acid	.01000
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B814657482
LC84	Pipette	B820865811
LD73	Pipette	B814657482

Solution Prepared By: Bailey, Kevin **Date Prepared:** 10/22/2020 **Expiration Date:** 7/21/2021

Solution Volume : 40 mL X 1 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise **Date:** 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LD79**

Description: PFAS - DoD Calibration L6

Stock Id: LB78

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	125	0.10	---	---	1	10	0.00125
13C2-PFOA	125	0.10	---	---	1	10	0.00125
13C3-PFBA	125	0.10	---	---	1	10	0.00125
13C4-PFOS	125	0.10	---	---	1	10	0.00119

Stock Id: LC84

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
3-Perfluoroheptyl propanoic acid	2500	0.10	---	---	1	10	0.02500
3-Perfluoropentyl propanoic acid	2500	0.10	---	---	1	10	0.02500
3-perfluoropropyl propanoic Acid	2500	0.10	---	---	1	10	0.02500

Stock Id: LD73

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	125	0.09	---	---	1	10	0.00117
13C2-6:2FTS	125	0.10	---	---	1	10	0.00119
13C2-8:2FTS	125	0.10	---	---	1	10	0.00120
13C2-PFDoA	125	0.10	---	---	1	10	0.00125
13C2-PFTeDA	125	0.10	---	---	1	10	0.00125
13C3-HFPO-DA	125	0.10	---	---	1	10	0.00125
13C3-PFBS	125	0.09	---	---	1	10	0.00116
13C3-PFHxS	125	0.09	---	---	1	10	0.00118
13C4-PFBA	125	0.10	---	---	1	10	0.00125
13C4-PFHpA	125	0.10	---	---	1	10	0.00125
13C5-PFHxA	125	0.10	---	---	1	10	0.00125
13C5-PFPeA	125	0.10	---	---	1	10	0.00125
13C6-PFDA	125	0.10	---	---	1	10	0.00125
13C7-PFU _n A	125	0.10	---	---	1	10	0.00125
13C8-FOSA	125	0.10	---	---	1	10	0.00125
13C8-PFOA	125	0.10	---	---	1	10	0.00122
13C8-PFOS	125	0.10	---	---	1	10	0.00119
13C9-PFNA	125	0.10	---	---	1	10	0.00125
d3-MeFOSAA	125	0.10	---	---	1	10	0.00125
d5-EtFOSAA	125	0.10	---	---	1	10	0.00125

Final Concentrations:

Solution Prepared By: Bailey, Kevin	Date Prepared: 10/22/2020	Expiration Date: 7/21/2021
Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121		

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise **Date:** 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD79

Description: PFAS - DoD Calibration L6

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.00117
13C2-6:2FTS	.00119
13C2-8:2FTS	.00120
13C2-PFDA	.00125
13C2-PFDoA	.00125
13C2-PFOA	.00125
13C2-PFTeDA	.00125
13C3-HFPO-DA	.00125
13C3-PFBA	.00125
13C3-PFBS	.00116
13C3-PFHxS	.00118
13C4-PFBA	.00125
13C4-PFHpA	.00125
13C4-PFOS	.00119
13C5-PFHxA	.00125
13C5-PFPeA	.00125
13C6-PFDA	.00125
13C7-PFUnA	.00125
13C8-FOSA	.00125
13C8-PFOA	.00122
13C8-PFOS	.00119
13C9-PFNA	.00125
3-Perfluoroheptyl propanoic acid	.02500
3-Perfluoropentyl propanoic acid	.02500
3-perfluoropropyl propanoic Acid	.02500
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B814657482
LC84	Pipette	B820865811
LD73	Pipette	B814657482

Solution Prepared By: Bailey, Kevin **Date Prepared:** 10/22/2020 **Expiration Date:** 7/21/2021

Solution Volume : 40 mL X 1 Vials **Refrigerator/Freezer No:** VOC Laboratory: Refrigerator - R0121

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise **Date:** 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD81

Description: PFAS - DoD ICC

Stock Id: LB78

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	125	0.10	---	---	1	10	0.00125
13C2-PFOA	125	0.10	---	---	1	10	0.00125
13C3-PFBA	125	0.10	---	---	1	10	0.00125
13C4-PFOS	125	0.10	---	---	1	10	0.00119

Stock Id: LD43

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic aci	250	0.10	---	---	1	10	0.00250
1H,1H,2H,2H-Perfluorodecane sulfonate	250	0.10	---	---	1	10	0.00253
1H,1H,2H,2H-Perfluorohexane sulfonate	250	0.10	---	---	1	10	0.00250
1H,1H,2H,2H-Perfluorooctane sulfonate	250	0.10	---	---	1	10	0.00250
3-Perfluoroheptyl propanoic acid	250	0.10	---	---	1	10	0.00250
3-Perfluoropentyl propanoic acid	250	0.10	---	---	1	10	0.00250
3-perfluoropropyl propanoic Acid	250	0.10	---	---	1	10	0.00250
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	250	0.10	---	---	1	10	0.00250
Adona	250	0.10	---	---	1	10	0.00250
Hexafluoropropylene oxide dimer acid	250	0.10	---	---	1	10	0.00250
N-ethylperfluoro-octanesulfonamidoacetic acid	250	0.10	---	---	1	10	0.00250
N-methylperfluoro-1-octanesulfonamidoacetic acid	250	0.10	---	---	1	10	0.00250
Perfluoro-1-butanefluoride	250	0.10	---	---	1	10	0.00250
Perfluoro-1-decanesulfonate	250	0.10	---	---	1	10	0.00253
Perfluoro-1-heptanesulfonate	250	0.10	---	---	1	10	0.00250
Perfluoro-1-hexanesulfonate	250	0.10	---	---	1	10	0.00253
Perfluoro-1-nonanesulfonate	250	0.10	---	---	1	10	0.00253
Perfluoro-1-octanesulfonamide	250	0.10	---	---	1	10	0.00250
Perfluoro-1-octanesulfonate	250	0.10	---	---	1	10	0.00253
perfluoro-1-pentanesulfonate	250	0.10	---	---	1	10	0.00250
Perfluoro-n-butanoic Acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-decanoic Acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-dodecanoic acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-heptanoic Acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-hexanoic acid	250	0.10	---	---	1	10	0.00253
Perfluoro-n-octanoic Acid	250	0.10	---	---	1	10	0.00250
Perfluorononanoic Acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-pentanoic acid	250	0.10	---	---	1	10	0.00253

Solution Prepared By: Bailey, Kevin Date Prepared: 10/22/2020 Expiration Date: 7/21/2021

Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise Date: 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD81

Description: PFAS - DoD ICC

Perfluoro-n-tetradecanoic acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-tridecanoic acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-undecanoic acid	250	0.10	---	---	1	10	0.00250

Stock Id: LD73

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	125	0.09	---	---	1	10	0.00117
13C2-6:2FTS	125	0.10	---	---	1	10	0.00119
13C2-8:2FTS	125	0.10	---	---	1	10	0.00120
13C2-PFDoA	125	0.10	---	---	1	10	0.00125
13C2-PFTeDA	125	0.10	---	---	1	10	0.00125
13C3-HFPO-DA	125	0.10	---	---	1	10	0.00125
13C3-PFBS	125	0.09	---	---	1	10	0.00116
13C3-PFHxS	125	0.09	---	---	1	10	0.00118
13C4-PFBA	125	0.10	---	---	1	10	0.00125
13C4-PFHpA	125	0.10	---	---	1	10	0.00125
13C5-PFHxA	125	0.10	---	---	1	10	0.00125
13C5-PFPeA	125	0.10	---	---	1	10	0.00125
13C6-PFDA	125	0.10	---	---	1	10	0.00125
13C7-PFUnA	125	0.10	---	---	1	10	0.00125
13C8-FOSA	125	0.10	---	---	1	10	0.00125
13C8-PFOA	125	0.10	---	---	1	10	0.00122
13C8-PFOS	125	0.10	---	---	1	10	0.00119
13C9-PFNA	125	0.10	---	---	1	10	0.00125
d3-MeFOSAA	125	0.10	---	---	1	10	0.00125
d5-EtFOSAA	125	0.10	---	---	1	10	0.00125

Final Concentrations:

Analyte:	Conc (ug/mL):
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	.00250
13C2-4:2FTS	.00117
13C2-6:2FTS	.00119
13C2-8:2FTS	.00120
13C2-PFDA	.00125
13C2-PFDoA	.00125
13C2-PFOA	.00125
13C2-PFTeDA	.00125
13C3-HFPO-DA	.00125
13C3-PFBA	.00125

Solution Prepared By: Bailey, Kevin Date Prepared: 10/22/2020 Expiration Date: 7/21/2021

Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise Date: 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LD81

Description: PFAS - DoD ICC

13C3-PFBS	.00116
13C3-PFHxS	.00118
13C4-PFBA	.00125
13C4-PFHpA	.00125
13C4-PFOS	.00119
13C5-PFHxA	.00125
13C5-PFPeA	.00125
13C6-PFDA	.00125
13C7-PFUnA	.00125
13C8-FOSA	.00125
13C8-PFOA	.00122
13C8-PFOS	.00119
13C9-PFNA	.00125
1H,1H,2H,2H-Perfluorodecane sulfonate	.00253
1H,1H,2H,2H-Perfluorohexane sulfonate	.00250
1H,1H,2H,2H-Perfluorooctane sulfonate	.00250
3-Perfluoroheptyl propanoic acid	.00250
3-Perfluoropentyl propanoic acid	.00250
3-perfluoropropyl propanoic Acid	.00250
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	.00250
Adona	.00250
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125
Hexafluoropropylene oxide dimer acid	.00250
N-ethylperfluoro-octanesulfonamidoacetic acid	.00250
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00250
Perfluoro-1-butanedisulfonate	.00250
Perfluoro-1-decanedisulfonate	.00253
Perfluoro-1-heptanedisulfonate	.00250
Perfluoro-1-hexanedisulfonate	.00253
Perfluoro-1-nonanedisulfonate	.00253
Perfluoro-1-octanesulfonamide	.00250
Perfluoro-1-octanesulfonate	.00253
perfluoro-1-pentanesulfonate	.00250
Perfluoro-n-butanoic Acid	.00250
Perfluoro-n-decanoic Acid	.00250
Perfluoro-n-dodecanoic acid	.00250
Perfluoro-n-heptanoic Acid	.00250
Perfluoro-n-hexanoic acid	.00253

Solution Prepared By: Bailey, Kevin Date Prepared: 10/22/2020 Expiration Date: 7/21/2021

Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise Date: 10/23/2020 9:27:00 AM



It can be done

Standard Solution Concentrations Approved:

Standard Laboratory ID Number: LD81

Description: PFAS - DoD ICC

Perfluoro-n-octanoic Acid	.00250
Perfluorononanoic Acid	.00250
Perfluoro-n-pentanoic acid	.00253
Perfluoro-n-tetradecanoic acid	.00250
Perfluoro-n-tridecanoic acid	.00250
Perfluoro-n-undecanoic acid	.00250

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B814657482
LD43	Pipette	B814657482
LD73	Pipette	B814657482

Solution Prepared By: Bailey, Kevin	Date Prepared: 10/22/2020	Expiration Date: 7/21/2021
Solution Volume : 40 mL X 1 Vials Refrigerator/Freezer No: VOC Laboratory: Refrigerator - R0121		

Comment: 80/20 methanol/milli-q (RP-201022-7)

Approved By: Schumitz, Denise **Date:** 10/23/2020 9:27:00 AM



It can be done

BDO Id: 200721-01

Reagent Receipt Report

Approved:

Name: MPFBA Received: 7/21/2020
 Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
 Catalogue No: MPFBA Expires: 5/13/2025
 Type: Solution Consumed: _____
 Lot No: MPFBA0420 Stored In: VOC Laboratory - R0123
 Quantity: 1 ea mL % Moisture: _____
 Description: MPFBA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C4-PFBA	BDO-2105	50.0000	98.00	--	--	<input type="checkbox"/>		

Total Analytes: 1

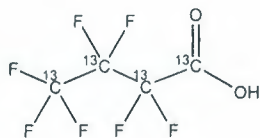
Notes:

Approved by: _____ Approved on: _____
 Authorized by: _____ Authorized on: _____

**WELLINGTON**
LABORATORIES**CERTIFICATE OF ANALYSIS**
DOCUMENTATION

PRODUCT CODE: MPFBA **LOT NUMBER:** MPFBA0420
COMPOUND: Perfluoro-n-[1,2,3,4-¹³C₄]butanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₄HF₇O₂ **MOLECULAR WEIGHT:** 218.01
CONCENTRATION: 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99%¹³C
(1,2,3,4-¹³C₄)
LAST TESTED: (mm/dd/yyyy) 05/13/2020
EXPIRY DATE: (mm/dd/yyyy) 05/13/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

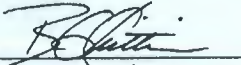
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim, General Manager **Date:** 05/20/2020
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

It can be done

BDO Id:

200721-02

Reagent Receipt Report

Approved: Authorized:

Name: M5PFPeA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M5PFPeA Expires: 1/22/2025
Type: Solution Consumed: _____
Lot No: M5PFPeA0120 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M5PFPeA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C5-PFPeA	BDO-2216	50.0000	98.00	--	--	<input type="checkbox"/>		

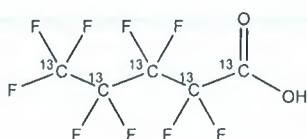
Total Analytes: 1

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

**WELLINGTON**
LABORATORIES**CERTIFICATE OF ANALYSIS**
DOCUMENTATION

PRODUCT CODE: M5PFPeA **LOT NUMBER:** M5PFPeA0120
COMPOUND: Perfluoro-n-[¹³C₅]pentanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₅HF₉O₂ **MOLECULAR WEIGHT:** 269.01
CONCENTRATION: 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
(¹³C₅)
LAST TESTED: (mm/dd/yyyy) 01/22/2020
EXPIRY DATE: (mm/dd/yyyy) 01/22/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

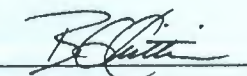
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.25% of perfluoro-n-pentanoic acid.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 01/24/2020
B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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It can be done

BDO Id:

200721-03

Reagent Receipt Report

Approved: Authorized:

Name: M5PFHxA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M5PFHxA Expires: 4/3/2025
Type: Solution Consumed: _____
Lot No: M5PFHxA0320 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M5PFHxA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C5-PFHxA	BDO-2217	50.0000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

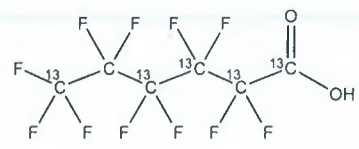
Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M5PFHxA **LOT NUMBER:** M5PFHxA0320
COMPOUND: Perfluoro-n-[1,2,3,4,6-¹³C₅]hexanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₅¹²C₁HF₁₁O₂ **MOLECULAR WEIGHT:** 319.02
CONCENTRATION: 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
 (1,2,3,4,6-¹³C₅)
LAST TESTED: (mm/dd/yyyy) 04/03/2020
EXPIRY DATE: (mm/dd/yyyy) 04/03/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

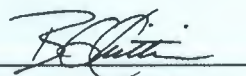
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager **Date:** 04/15/2020
 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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It can be done

BDO Id:

200721-04

Reagent Receipt Report

Approved:

AM 07/21/20

Name: M4PFHpA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M4PFHpA Expires: 1/8/2025
Type: Solution Consumed: _____
Lot No: M4PFHpA0120 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M4PFHpA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C4-PFHpA	BDO-2218	50.0000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

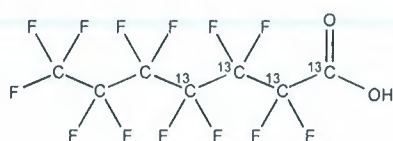
Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M4PFHpA **LOT NUMBER:** M4PFHpA0120
COMPOUND: Perfluoro-n-[1,2,3,4-¹³C₄]heptanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₄¹²C₃HF₁₃O₂ **MOLECULAR WEIGHT:** 368.03
CONCENTRATION: 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99%¹³C
 (1,2,3,4-¹³C₄)
LAST TESTED: (mm/dd/yyyy) 01/08/2020
EXPIRY DATE: (mm/dd/yyyy) 01/08/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

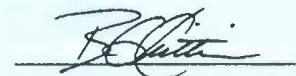
DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC and Mass Spectrum)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.03% of perfluoro-n-heptanoic acid.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 01/24/2020
 B.G. Chittim, General Manager (mm/dd/yyyy)

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It can be done

BDO Id:

200721-05

Reagent Receipt Report

Approved: Number (max)

Name: M8PFOA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M8PFOA Expires: 1/23/2025
Type: Solution Consumed: _____
Lot No: M8PFOA0220 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M8PFOA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C8-PFOA	BDO-2219	48.9000	97.80	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

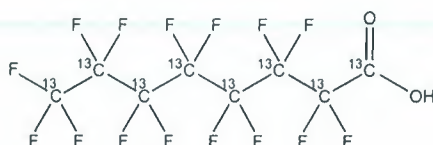
Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M8PFOA **LOT NUMBER:** M8PFOA0220
COMPOUND: Perfluoro-n-[¹³C₈]octanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₈H₁₅O₂ **MOLECULAR WEIGHT:** 422.01
CONCENTRATION: 48.9 ± 2.4 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: 97.8% (M8PFOA) **ISOTOPIC PURITY:** ≥99% ¹³C
 2.2% (MPFOA [M+4]) (¹³C₈)
LAST TESTED: (mm/dd/yyyy) 01/23/2020
EXPIRY DATE: (mm/dd/yyyy) 01/23/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

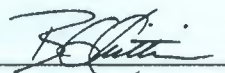
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains < 0.1% of native perfluoro-n-octanoic acid (PFOA) and ~ 2.2% of [M+4] perfluoro-n-octanoic acid.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager **Date:** 01/24/2020
 (mm/dd/yyyy)

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It can be done

BDO Id:

200721-06

Reagent Receipt Report

Approved: Authorized:

Name: M9PFNA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M9PFNA Expires: 9/8/2023
Type: Solution Consumed: _____
Lot No: M9PFNA0918 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M9PFNA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C9-PFNA	BDO-2221	50.0000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

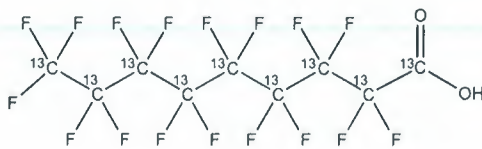


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M9PFNA **LOT NUMBER:** M9PFNA0918
COMPOUND: Perfluoro-n-[¹³C₉]nonanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₉HF₁₇O₂ **MOLECULAR WEIGHT:** 473.01
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 09/08/2018 (¹³C₉)
EXPIRY DATE: (mm/dd/yyyy) 09/08/2023
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 1.0% of ¹³C₅¹²C₄HF₁₇O₂ (MPFNA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 09/19/2018
B.G. Chittim, General Manager (mm/dd/yyyy)

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It can be done

BDO Id:

200721-07

Reagent Receipt Report

Approved: Authorized:

Name: M6PFDA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M6PFDA Expires: 7/25/2024
Type: Solution Consumed: _____
Lot No: M6PFDA0719 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M6PFDA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C6-PFDA	BDO-2222	50.0000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

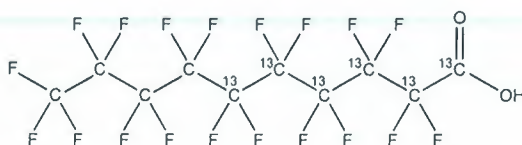
26072-07



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M6PFDA **LOT NUMBER:** M6PFDA0719
COMPOUND: Perfluoro-n-[1,2,3,4,5,6-¹³C₆]decanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₆¹²C₄HF₁₉O₂ **MOLECULAR WEIGHT:** 520.04
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
 (1,2,3,4,5,6-¹³C₆)
LAST TESTED: (mm/dd/yyyy) 07/25/2019
EXPIRY DATE: (mm/dd/yyyy) 07/25/2024
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

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Certified By: 

B.G. Chittim, General Manager

Date: 07/26/2019

(mm/dd/yyyy)

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It can be done

BDO Id:

200721-08

Acquisition Receipt Report

Approved: Authorized:

Name: M7PFUdA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M7PFUdA Expires: 7/22/2024
Type: Solution Consumed: _____
Lot No: M7PFUdA0719 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M7PFUdA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C7-PFUnA	BDO-2223	50.0000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____



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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: M7PFUdA **LOT NUMBER:** M7PFUdA0719
COMPOUND: Perfluoro-n-[1,2,3,4,5,6,7-¹³C₇]undecanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₇¹²C₄HF₂₁O₂ **MOLECULAR WEIGHT:** 571.04
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
 (1,2,3,4,5,6,7-¹³C₇)
LAST TESTED: (mm/dd/yyyy) 07/22/2019
EXPIRY DATE: (mm/dd/yyyy) 07/22/2024
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager **Date:** 09/12/2019
 (mm/dd/yyyy)

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It can be done

BDO Id:

200721-09

Reagent Receipt Report

Approved: Authorized:

Name: MPFDoA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: MPFDoA Expires: 11/22/2024
Type: Solution Consumed: _____
Lot No: MPFDoA1119 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: MPFDoA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C2-PFDoA	BDO-2112	50.0000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

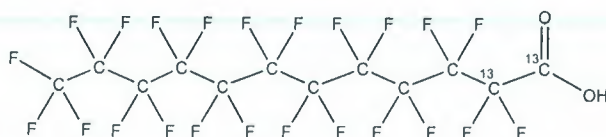
200721-09



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CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: MPFDoA **LOT NUMBER:** MPFDoA1119
COMPOUND: Perfluoro-n-[1,2-¹³C₂]dodecanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₁₀HF₂₃O₂ **MOLECULAR WEIGHT:** 616.08
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
 (1,2-¹³C₂)
LAST TESTED: (mm/dd/yyyy) 11/22/2019
EXPIRY DATE: (mm/dd/yyyy) 11/22/2024
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

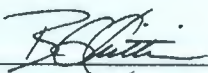
Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____


 B.G. Chittim, General Manager

Date: 11/27/2019
 (mm/dd/yyyy)

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It can be done

BDO Id:

200721-10

Reagent Receipt Report

Approved: Authorized:

Name: M2PFTeDA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M2PFTeDA Expires: 11/14/2024
Type: Solution Consumed: _____
Lot No: M2PFTeDA1119 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M2PFTeDA

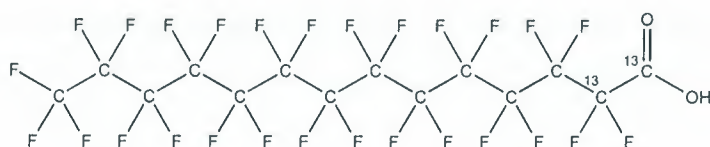
Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C2-PFTeDA	BDO-2224	50.0000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

**WELLINGTON**
LABORATORIES**CERTIFICATE OF ANALYSIS**
DOCUMENTATION

PRODUCT CODE: M2PFTeDA **LOT NUMBER:** M2PFTeDA1119
COMPOUND: Perfluoro-n-[1,2-¹³C₂]tetradecanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₁₂HF₂₇O₂ **MOLECULAR WEIGHT:** 716.10
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
(1,2-¹³C₂)
LAST TESTED: (mm/dd/yyyy) 11/14/2019
EXPIRY DATE: (mm/dd/yyyy) 11/14/2024
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains < 0.1% of perfluoro-n-tetradecanoic acid.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim, General Manager

Date: 11/26/2019
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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It can be done

BDO Id: 200721-11

Reagent Receipt Report

Approved: Authorized:

Name: M2-4:2FTS Received: 7/21/2020
 Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
 Catalogue No: M2-4:2FTS Expires: 4/16/2025
 Type: Solution Consumed:
 Lot No: M242FTS0420 Stored In: VOC Laboratory - R0123
 Quantity: 1 ea mL % Moisture:
 Description: M2-4:2FTS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
13C2-4:2FTS	BDO-2229	46.7000	98.00	--	--	<input type="checkbox"/>			

Total Analytes: 1

Notes:

Approved by: _____ Approved on: _____
 Authorized by: _____ Authorized on: _____

200721-11

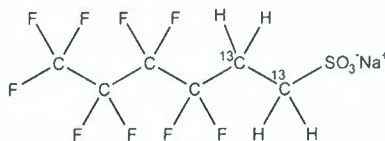


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M2-4:2FTS **LOT NUMBER:** M242FTS0420
COMPOUND: Sodium 1H,1H,2H,2H-perfluoro-[1,2-¹³C₂]hexane sulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₄H₄F₉SO₃Na **MOLECULAR WEIGHT:** 352.12
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 46.9 ± 2.3 µg/ml (M2-4:2FTS acid)
 46.7 ± 2.3 µg/ml (M2-4:2FTS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 04/16/2020 (1,2-¹³C₂)
EXPIRY DATE: (mm/dd/yyyy) 04/16/2025
RECOMMENDED STORAGE: Refrigerate ampoule


DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The native 4:2FTS contains 4.22% of ³⁴S (due to natural isotopic abundance) therefore both native 4:2FTS and M2-4:2FTS will produce signals in the m/z 329 to m/z 309 channel during SRM analysis. We recommend using the m/z 329 to m/z 81 transition to monitor for M2-4:2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager **Date:** 04/20/2020
 (mm/dd/yyyy)

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It can be done

BDO Id:

200721-12

Reagent Receipt Report

Approved:

Name: M2-6:2FTS Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M2-6:2FTS Expires: 5/20/2025
Type: Solution Consumed: _____
Lot No: M262FTS0520 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M2-6:2FTS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C2-6:2FTS	BDO-2230	47.5000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

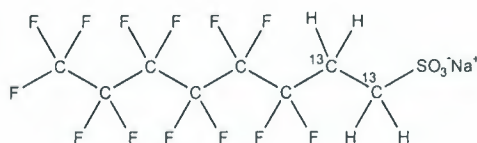
Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M2-6:2FTS **LOT NUMBER:** M262FTS0520
COMPOUND: Sodium 1H,1H,2H,2H-perfluoro-[1,2-¹³C₂]octane sulfonate
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₆H₄F₁₃SO₃Na **MOLECULAR WEIGHT:** 452.13
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 47.6 ± 2.4 µg/ml (M2-6:2FTS acid)
 47.5 ± 2.4 µg/ml (M2-6:2FTS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 05/20/2020 (1,2-¹³C₂)
EXPIRY DATE: (mm/dd/yyyy) 05/20/2025
RECOMMENDED STORAGE: Refrigerate ampoule

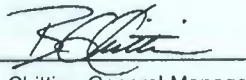
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The native 6:2FTS contains 4.22% of ³⁴S (due to natural isotopic abundance) therefore both native 6:2FTS and M2-6:2FTS will produce signals in the m/z 429 to m/z 409 channel during SRM analysis. We recommend using the m/z 429 to m/z 81 transition to monitor for M2-6:2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager **Date:** 06/02/2020
 (mm/dd/yyyy)

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It can be done

BDO Id: 200721-13

Reagent Receipt Report

Approved: Authorized:

Name: M2-8:2FTS Received: 7/21/2020
 Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
 Catalogue No: M2-8:2FTS Expires: 3/18/2025
 Type: Solution Consumed:
 Lot No: M282FTS0320 Stored In: VOC Laboratory - R0123
 Quantity: 1 ea mL % Moisture:
 Description: M2-8:2FTS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C2-8:2FTS	BDO-2220	47.9000	98.00	--	--	<input type="checkbox"/>		

Total Analytes: 1

Notes:

Approved by: _____ Approved on: _____
 Authorized by: _____ Authorized on: _____

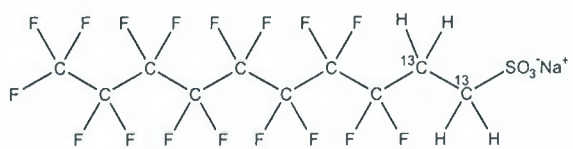


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M2-8:2FTS **LOT NUMBER:** M282FTS0320
COMPOUND: Sodium 1H,1H,2H,2H-perfluoro-[1,2-¹³C₂]decane sulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₈H₄F₁₇SO₃Na **MOLECULAR WEIGHT:** 552.15
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
48.0 ± 2.4 µg/ml (M2-8:2FTS acid)
47.9 ± 2.4 µg/ml (M2-8:2FTS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 03/18/2020 (1,2-¹³C₂)
EXPIRY DATE: (mm/dd/yyyy) 03/18/2025
RECOMMENDED STORAGE: Refrigerate ampoule

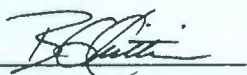
DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC and Mass Spectrum)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The native 8:2FTS contains 4.22% of ³⁴S (due to natural isotopic abundance) therefore both native 8:2FTS and M2-8:2FTS will produce signals in the m/z 529 to m/z 509 channel during SRM analysis. We recommend using the m/z 529 to m/z 81 transition to monitor for M2-8:2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim, General Manager **Date:** 03/18/2020
(mm/dd/yyyy)

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It can be done

BDO Id:

200721-14

Reagent Receipt Report

Approved:

Date: _____

Name: M3PFBSReceived: 7/21/2020Vendor: Wellington LaboratoriesCustodian: Schultz, StephanieCatalogue No: M3PFBSExpires: 3/17/2025Type: Solution

Consumed: _____

Lot No: M3PFBS1019Stored In: VOC Laboratory - R0123Quantity: 1 ea mL % Moisture: _____Description: M3PFBS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
13C3-PFBS	BDO-2226	46.5000	98.00	--	--	<input type="checkbox"/>			

Total Analytes: 1

Notes:

Approved by: _____ Approved on: _____

Authorized by: _____ Authorized on: _____

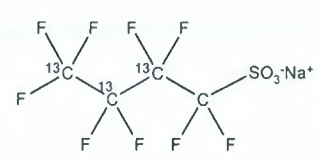


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3PFBS **LOT NUMBER:** M3PFBS1019
COMPOUND: Sodium perfluoro-1-[2,3,4-¹³C₃]butanesulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₃¹²CF₉SO₃Na **MOLECULAR WEIGHT:** 325.06
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
46.6 ± 2.3 µg/ml (M3PFBS acid)
46.5 ± 2.3 µg/ml (M3PFBS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 03/17/2020 (2,3,4-¹³C₃)
EXPIRY DATE: (mm/dd/yyyy) 03/17/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

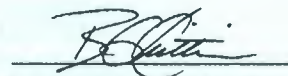
DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC and Mass Spectrum)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains < 0.1% of perfluoro-1-butanesulfonate.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 03/18/2020
B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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It can be done

BDO Id:

200721-15

Reagent Receipt Report

Approved:

Name: M3PFHxS Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M3PFHxS Expires: 10/15/2024
Type: Solution Consumed: _____
Lot No: M3PFHxS1019 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M3PFHxS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C3-PFHxS	BDO-2227	47.3000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3PFHxS **LOT NUMBER:** M3PFHxS1019
COMPOUND: Sodium perfluoro-1-[1,2,3-¹³C₃]hexanesulfonate
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₃¹²C₃F₁₃SO₃Na **MOLECULAR WEIGHT:** 425.07
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
47.3 ± 2.4 µg/ml (M3PFHxS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 10/15/2019 (1,2,3-¹³C₃)
EXPIRY DATE: (mm/dd/yyyy) 10/15/2024
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

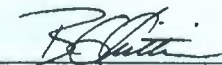
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.1% perfluoro-1-[1,2-¹³C₂]pentanesulfonate, ~ 0.1% perfluoro-1-octanesulfonate, and ~ 0.05% of perfluoro-1-hexanesulfonate.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 10/16/2019
B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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It can be done

BDO Id:

200721-16

Reagent Receipt Report

Approved: Authorized:

Name: M8PFOS Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M8PFOS Expires: 2/21/2025
Type: Solution Consumed: _____
Lot No: M8PFOS0120 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M8PFOS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C8-PFOS	BDO-2228	47.8000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

200721-16



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M8PFOS **LOT NUMBER:** M8PFOS0120
COMPOUND: Sodium perfluoro-1-[¹³C₈]octanesulfonate
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₈F₁₇SO₃Na **MOLECULAR WEIGHT:** 530.05
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 47.9 ± 2.4 µg/ml (M8PFOS acid)
 47.8 ± 2.4 µg/ml (M8PFOS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** >99% ¹³C
LAST TESTED: (mm/dd/yyyy) 02/21/2020 (¹³C₈)
EXPIRY DATE: (mm/dd/yyyy) 02/21/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.2% of sodium perfluoro-1-[¹³C₇]heptanesulfonate (¹³C₇-PFHpS) and ~ 1.0% of sodium perfluoro-1-[¹³C₄]octanesulfonate (MPFOS).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager

Date: 02/21/2020
 (mm/dd/yyyy)

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It can be done

BDO Id:

200721-17

Reagent Receipt Report

Approved: Authorized:

Name: d3-N-MeFOSAA

Received: 7/21/2020

Vendor: Wellington Laboratories

Custodian: Schultz, Stephanie

Catalogue No: d3-N-MeFOSAA

Expires: 12/2/2024

Type: Solution

Consumed:

Lot No: d3NMeFOSAA1119

Stored In: VOC Laboratory - R0123

Quantity: 1 ea mL % Moisture:

Description: d3-N-MeFOSAA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
d3-MeFOSAA	BDO-1838	50.0000	98.00	--	--	<input type="checkbox"/>			

Total Analytes: 1

Notes:

Approved by: _____ Approved on: _____

Authorized by: _____ Authorized on: _____

200721-17

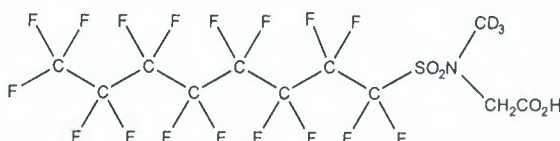


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: d3-N-MeFOSAA **LOT NUMBER:** d3NMeFOSAA1119
COMPOUND: N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid

STRUCTURE: **CAS #:** 1400690-70-1



MOLECULAR FORMULA: C₁₁D₃H₃F₁₇NO₄S **MOLECULAR WEIGHT:** 574.23
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥98% ²H₃
LAST TESTED: (mm/dd/yyyy) 12/02/2019
EXPIRY DATE: (mm/dd/yyyy) 12/02/2024
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

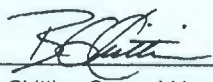
Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____


 B.G. Chittim, General Manager

Date: 12/04/2019
 (mm/dd/yyyy)

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It can be done

BDO Id:

200721-18

Reagent Receipt Report

Approved: Authorized:

Name: d5-N-EtFOSAA Received: 7/21/2020
 Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
 Catalogue No: d5-N-EtFOSAA Expires: 5/20/2025
 Type: Solution Consumed: _____
 Lot No: d5NEtFOSAA0520 Stored In: VOC Laboratory - R0123
 Quantity: 1 ea mL % Moisture: _____
 Description: d5-N-EtFOSAA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
d5-EtFOSAA	BDO-1839	50.0000	98.00	--	--	<input type="checkbox"/>			

Total Analytes: 1

Notes:

Approved by: _____ Approved on: _____
 Authorized by: _____ Authorized on: _____

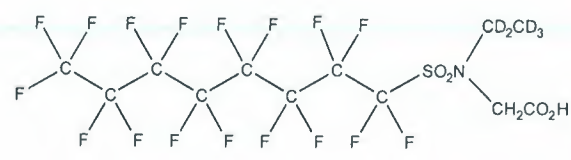


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: d5-N-EtFOSAA **LOT NUMBER:** d5NEtFOSAA0520
COMPOUND: N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: C₁₂D₅H₃F₁₇NO₄S
CONCENTRATION: 50.0 ± 2.5 µg/ml

MOLECULAR WEIGHT: 590.26
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 05/20/2020
EXPIRY DATE: (mm/dd/yyyy) 05/20/2025
RECOMMENDED STORAGE: Refrigerate ampoule

ISOTOPIC PURITY: ≥98% ²H₅

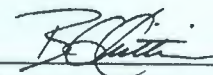
DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC and Mass Spectrum)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 05/22/2020
B.G. Chittim, General Manager (mm/dd/yyyy)

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It can be done

BDO Id:

200721-19

Reagent Receipt Report

Approved: Authorized:

Name: M8FOSA-I Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M8FOSA-I Expires: 2/28/2025
Type: Solution Consumed:
Lot No: M8FOSA0220I Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture:
Description: M8FOSA-I

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C8-FOSA	BDO-2225	50.0000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

200721-19



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M8FOSA-I **LOT NUMBER:** M8FOSA0220I
COMPOUND: Perfluoro-1-[¹³C₈]octanesulfonamide
STRUCTURE: **CAS #:** 1365803-60-6



MOLECULAR FORMULA: ¹³C₈H₂F₁₇NO₂S **MOLECULAR WEIGHT:** 507.09
CONCENTRATION: 50.0 ± 2.5 µg/ml **SOLVENT(S):** Isopropanol
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 02/28/2020 (¹³C₈)
EXPIRY DATE: (mm/dd/yyyy) 02/28/2025
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

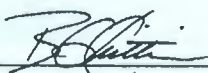
Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 1.2% of perfluoro-1-[¹³C₈]octanesulfonamide and ~ 0.03% of perfluoro-1-[¹³C₇]heptanesulfonamide.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:


 B.G. Chittim, General Manager

Date: 03/03/2020
 (mm/dd/yyyy)

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It can be done

BDO Id:

200721-20

Reagent Receipt Report

Approved: Sub:

Name: M3HFPO-DA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M3HFPO-DA Expires: 5/13/2023
Type: Solution Consumed:
Lot No: M3HFPODA0520 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture:
Description: M3HFPO-DA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C3-HFPO-DA	BDO-2276	50.0000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

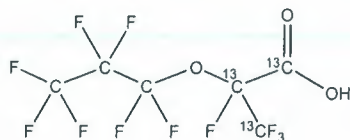


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA0520
COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-¹³C₃-propanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA:	¹³ C ₃ ¹² C ₃ HF ₁₁ O ₃	MOLECULAR WEIGHT:	333.03
CONCENTRATION:	50.0 ± 2.5 µg/ml	SOLVENT(S):	Methanol
CHEMICAL PURITY:	>98%	ISOTOPIC PURITY:	≥99% ¹³ C (¹³ C ₃)
LAST TESTED: (mm/dd/yyyy)	05/13/2020		
EXPIRY DATE: (mm/dd/yyyy)	05/13/2023		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 1.9% of the linear M3HFPO-DA isomer.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim, General Manager

Date: 05/22/2020
(mm/dd/yyyy)

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It can be done

BDO Id:

200721-21

Reagent Receipt Report

Approved: Authorized:

Name: MPFDA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: MPFDA Expires: 3/24/2025
Type: Solution Consumed: _____
Lot No: MPFDA0320 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: MPFDA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C2-PFDA	BDO-2110	50.0000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

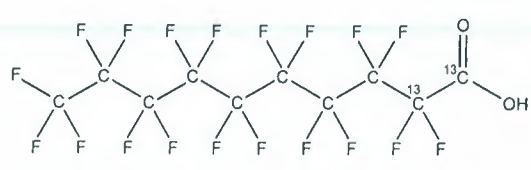


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: MPFDA **LOT NUMBER:** MPFDA0320
COMPOUND: Perfluoro-n-[1,2-¹³C₂]decanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₈HF₁₉O₂ **MOLECULAR WEIGHT:** 516.07
CONCENTRATION: 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 03/24/2020 (1,2-¹³C₂)
EXPIRY DATE: (mm/dd/yyyy) 03/24/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC and Mass Spectrum)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 04/06/2020
B.G. Chittim, General Manager (mm/dd/yyyy)

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It can be done

BDO Id:

200721-22

Reagent Receipt Report

Approved: Authorized:

Name: M2PFOA Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: M2PFOA Expires: 1/8/2025
Type: Solution Consumed: _____
Lot No: M2PFOA0120 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture: _____
Description: M2PFOA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
13C2-PFOA	BDO-2107	50.0000	98.00	--	--	<input type="checkbox"/>			
Total Analytes:	1								

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

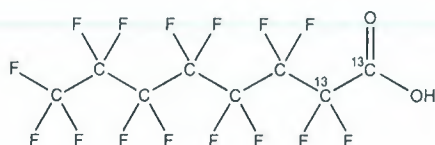
200721-22



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M2PFOA **LOT NUMBER:** M2PFOA0120
COMPOUND: Perfluoro-n-[1,2-¹³C₂]octanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₆HF₁₅O₂ **MOLECULAR WEIGHT:** 416.05
CONCENTRATION: 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99%¹³C
(1,2-¹³C₂)
LAST TESTED: (mm/dd/yyyy) 01/08/2020
EXPIRY DATE: (mm/dd/yyyy) 01/08/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains < 0.1% of perfluoro-n-[¹³C₁]heptanoic acid (¹³C₁-PFHpA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim, General Manager

Date: 01/15/2020
(mm/dd/yyyy)

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It can be done

BDO Id:

200721-23

Reagent Receipt Report

Approved:

Authorized:

Name: M3PFBA

Received: 7/21/2020

Vendor: Wellington Laboratories

Custodian: Schultz, Stephanie

Catalogue No: M3PFBA

Expires: 2/24/2025

Type: Solution

Consumed:

Lot No: M3PFBA0120

Stored In: VOC Laboratory - R0123

Quantity: 1 ea mL % Moisture:

Description: M3PFBA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
13C3-PFBA	BDO-2231	50.0000	98.00	--	--	<input type="checkbox"/>			

Total Analytes: 1

Notes:

Approved by: _____

Approved on: _____

Authorized by: _____

Authorized on: _____

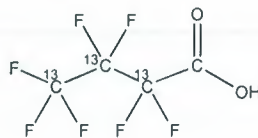


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3PFBA **LOT NUMBER:** M3PFBA0120
COMPOUND: Perfluoro-n-[2,3,4-¹³C₃]butanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₃¹²CHF₇O₂ **MOLECULAR WEIGHT:** 217.02
CONCENTRATION: 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99%¹³C
LAST TESTED: (mm/dd/yyyy) 02/24/2020 (2,3,4-¹³C₃)
EXPIRY DATE: (mm/dd/yyyy) 02/24/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

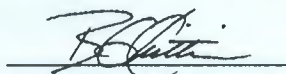
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.2% of perfluoro-n-[¹³C₃]propanoic acid and also contains ~ 1.0% of perfluoro-n-[1,2,3,4-¹³C₄]butanoic acid due to the naturally occurring isotopic abundance of ¹³C in the unlabelled carbon atom.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager **Date:** 03/27/2020
 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

It can be done

BDO Id: 200721-24

Reagent Receipt Report

Approved: Authorized:

Name: MPFOS Received: 7/21/2020
Vendor: Wellington Laboratories Custodian: Schultz, Stephanie
Catalogue No: MPFOS Expires: 4/15/2025
Type: Solution Consumed:
Lot No: MPFOS0420 Stored In: VOC Laboratory - R0123
Quantity: 1 ea mL % Moisture:
Description: MPFOS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
13C4-PFOS	BDO-2121	47.8000	98.00	--	--	<input type="checkbox"/>			
Total Analytes:	1								

Notes:

Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

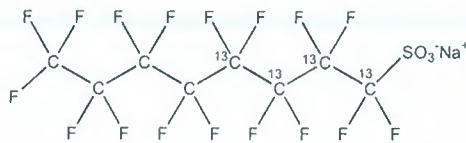


WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: MPFOS **LOT NUMBER:** MPFOS0420
COMPOUND: Sodium perfluoro-1-[1,2,3,4-¹³C₄]octanesulfonate

STRUCTURE: **CAS #:** 960315-53-1



MOLECULAR FORMULA:	¹³ C ₄ ¹² C ₄ F ₁₇ SO ₃ Na	MOLECULAR WEIGHT:	526.08
CONCENTRATION:	50.0 ± 2.5 µg/ml (Na salt) 47.9 ± 2.4 µg/ml (MPFOS acid) 47.8 ± 2.4 µg/ml (MPFOS anion)	SOLVENT(S):	Methanol
CHEMICAL PURITY:	>98%	ISOTOPIC PURITY:	≥99% ¹³ C (1,2,3,4- ¹³ C ₄)
LAST TESTED: (mm/dd/yyyy)	04/15/2020		
EXPIRY DATE: (mm/dd/yyyy)	04/15/2025		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

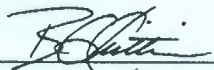
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.3% Sodium perfluoro-1-[1,2,3-¹³C₃]heptanesulfonate.

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Certified By:  **Date:** 04/20/2020
 B.G. Chittim, General Manager (mm/dd/yyyy)

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BATTELLE

It can be done

BDO Id: 200811-01

Reagent Receipt Report

Approved: Authorized

Name: 3-Perfluoropropyl propanoic acid **Received:** 8/11/2020
Vendor: Wellington Laboratories **Custodian:** Bailey, Kevin
Catalogue No: FPrPA **Expires:** 1/7/2023
Type: Solution **Consumed:** _____
Lot No: FPrPA1219 **Stored In:** VOC Laboratory - R0123
Quantity: 1 ea ml **% Moisture:** _____
Description: FPrPA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
3-perfluoropropyl propanoic Acid	356-02-5	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____



WELLINGTON LABORATORIES

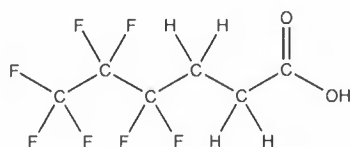
CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: FPrPA
COMPOUND: 3-Perfluoropropyl propanoic acid

LOT NUMBER: FPrPA1219

STRUCTURE:

CAS #: 356-02-5



MOLECULAR FORMULA: C₆H₅F₇O₂
CONCENTRATION: 50 ± 2.5 µg/ml
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 01/07/2020
EXPIRY DATE: (mm/dd/yyyy) 01/07/2023
RECOMMENDED STORAGE: Refrigerate ampoule

MOLECULAR WEIGHT: 242.09
SOLVENT(S): Methanol

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains <1% of the unsaturated 3:3 telomer acid (C₆H₃F₇O₂) as an impurity determined by ¹⁹F NMR.

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Certified By: 
B.G. Chittim, General Manager

Date: 01/08/2020
(mm/dd/yyyy)

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BATTELLE

It can be done

BDO Id: 200811-02

Reagent Receipt Report

Approved: Authorized

Name: 3-Perfluoroheptyl propanoic acid **Received:** 8/11/2020
Vendor: Wellington Laboratories **Custodian:** Bailey, Kevin
Catalogue No: FHpPA **Expires:** 3/31/2023
Type: Solution **Consumed:** _____
Lot No: FHpPA0320 **Stored In:** VOC Laboratory - R0123
Quantity: 1 ea ml **% Moisture:** _____
Description: FHpPA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
3-Perfluoroheptyl propanoic acid	812-70-4	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

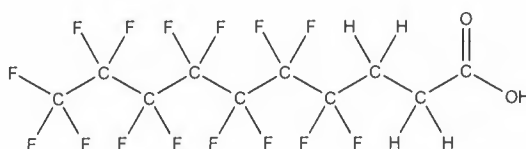
Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: FHpPA **LOT NUMBER:** FHpPA0320
COMPOUND: 3-Perfluoroheptyl propanoic acid
STRUCTURE: **CAS #:** 812-70-4



MOLECULAR FORMULA: C₁₀H₅F₁₅O₂ **MOLECULAR WEIGHT:** 442.12
CONCENTRATION: 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 03/31/2020
EXPIRY DATE: (mm/dd/yyyy) 03/31/2023
RECOMMENDED STORAGE: Refrigerate ampoule


DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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Certified By: 
 B.G. Chittim, General Manager **Date:** 04/01/2020
 (mm/dd/yyyy)

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BATTELLE

It can be done

BDO Id: 200811-03

Reagent Receipt Report

Approved: Authorized

Name: 3-Perfluoropentyl propanoic acid **Received:** 8/11/2020
Vendor: Wellington Laboratories **Custodian:** Bailey, Kevin
Catalogue No: FPePA **Expires:** 10/2/2022
Type: Solution **Consumed:** _____
Lot No: FPePA0919 **Stored In:** VOC Laboratory - R0123
Quantity: 1 ea ml **% Moisture:** _____
Description: FPePA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
3-Perfluoropentyl propanoic acid	914637-49-3	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____



WELLINGTON LABORATORIES

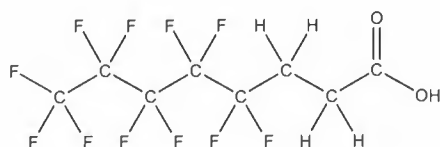
CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: FPePA
COMPOUND: 3-Perfluoropentyl propanoic acid

LOT NUMBER: FPePA0919

STRUCTURE:

CAS #: 914637-49-3



MOLECULAR FORMULA: $C_8H_5F_{11}O_2$
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 10/02/2019
EXPIRY DATE: (mm/dd/yyyy) 10/02/2022
RECOMMENDED STORAGE: Refrigerate ampoule

MOLECULAR WEIGHT: 342.11
SOLVENT(S): Methanol


DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains <1% of the unsaturated 5:3 telomer acid ($C_8H_3F_{11}O_2$) as an impurity determined by ^{19}F NMR.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim, General Manager

Date: 10/04/2019
(mm/dd/yyyy)

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It can be done

BDO Id: 200909-01

Reagent Receipt Report

Approved: Authorized

Name: PFOA DOD **Received:** 9/9/2020
Vendor: ABSOLUTE STANDARDS **Custodian:** Bailey, Kevin
Catalogue No: 64029 **Expires:** 7/28/2025
Type: Solution **Consumed:** _____
Lot No: 072820 **Stored In:** LC Laboratory - F0111
Quantity: 5 ea ml **% Moisture:** _____
Description: PFOA DOD

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
11-chloroeicosafuoro-3-oxaundecan	763051-92-9	1.0000	100.00	--	--	<input type="checkbox"/>			
1H,1H,2H,2H-Perfluorodecane sulfon	39108-34-4	1.0100	100.00	--	--	<input type="checkbox"/>			
1H,1H,2H,2H-Perfluorohexane sulfon	757124-72-4	1.0000	100.00	--	--	<input type="checkbox"/>			
1H,1H,2H,2H-Perfluorooctane sulfon	27619-97-2	1.0000	100.00	--	--	<input type="checkbox"/>			
9-chlorohexadecafluoro-3-oxanonane	756426-58-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Adona	919005-14-4	1.0000	100.00	--	--	<input type="checkbox"/>			
Hexafluoropropylene oxide dimer aci	13252-13-6	1.0000	100.00	--	--	<input type="checkbox"/>			
N-ethylperfluoro-octanesulfonamidoa	2991-50-6	1.0000	100.00	--	--	<input type="checkbox"/>			
N-methylperfluoro-1-octanesulfonami	2355-31-9	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-butanefluoride	375-73-5	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-decanesulfonate	335-77-3	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-heptanesulfonate	375-92-8	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-hexanesulfonate	355-46-4	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-nonanesulfonate	68259-12-1	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-octanesulfonamide	754-91-6	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-octanesulfonate	1763-23-1	1.0100	100.00	--	--	<input type="checkbox"/>			
perfluoro-1-pentanesulfonate	2706-91-4	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-butyric Acid	375-22-4	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-decanoic Acid	335-76-2	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-dodecanoic acid	307-55-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-heptanoic Acid	375-85-9	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-hexanoic acid	307-24-4	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-octanoic Acid	335-67-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluorononanoic Acid	375-95-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-pentanoic acid	2706-90-3	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-tetradecanoic acid	376-06-7	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-tridecanoic acid	72629-94-8	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-undecanoic acid	2058-94-8	1.0000	100.00	--	--	<input type="checkbox"/>			

Total Analytes: 28

Notes:

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____



200909-01

CERTIFIED WEIGHT REPORT

Part Number: 64029
Lot Number: 072820
Description: PFOA - DOD
26 components
Solvent(s): Methanol (1 mM KOH) Lot# 042920 (98%)
2-Propanol 23214 (2%)
Expiration Date: 072825
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 1.0
NIST Test ID#: 23050
5E-05 Balance Uncertainty
0.007 Flask Uncertainty

Formulated By:	Benson Chan	DATE	072820
Reviewed By:	Pedro L. Rantes	DATE	072820

Volume(s) shown below were combined and diluted to (mL): 50.0
Note: All assigned values are anion concentrations.

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.)		
									CAS#	OSHA PEL (TWA)	LD50
1. Perfluoro-n-butanolic acid (linear)	99542	110419	0.02	1.00	0.004	50.2	1.00	0.01	375-22-4	N/A	N/A
2. Perfluoro-n-pentanolic acid	99543	110419	0.02	1.00	0.004	50.7	1.01	0.02	2706-90-3	N/A	N/A
3. Perfluorohexanolic acid	99199	010820	0.02	1.00	0.004	50.3	1.01	0.01	307-24-4	N/A	N/A
4. Perfluoroheptanolic acid	99197	071219	0.02	1.00	0.004	50.1	1.00	0.01	375-85-9	N/A	N/A
5. Perfluorooctanoic acid (branched)*	99202	021820	0.02	1.00	0.004	50.3	1.01	0.01	335-67-1	N/A	ipr-rel 189mg/kg
6. Perfluorononanolic acid	99200	110419	0.02	1.00	0.004	50.1	1.00	0.01	375-95-1	N/A	N/A
7. Perfluorodecanolic acid	99195	110419	0.02	1.00	0.004	50.1	1.00	0.01	335-76-2	N/A	ori-rel 57mg/kg
8. Perfluoroundecanolic acid	99205	110419	0.02	1.00	0.004	50.1	1.00	0.01	2058-94-8	N/A	N/A
9. Tricosafuorododecanolic acid	99196	010820	0.02	1.00	0.004	50.1	1.00	0.01	307-55-1	N/A	N/A
10. Perfluorotridecanolic acid	99204	110419	0.02	1.00	0.004	50.1	1.00	0.01	72829-94-8	N/A	N/A
11. Perfluorotetradecanolic acid	99203	120319	0.02	1.00	0.004	50.1	1.00	0.01	376-06-7	N/A	N/A
12. Perfluoro-1-octanesulfonamide	3677	FOSA04201	0.02	1.00	0.004	50.0	1.00	0.05	754-91-8	N/A	N/A
13. N-Methylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4162	brNMeFOSAA0119	0.02	1.00	0.004	50.0	1.00	0.05	00-00-0	N/A	N/A
14. N-Ethylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4163	brNEIFOSAA0819	0.02	1.00	0.004	50.0	1.00	0.05	00-00-0	N/A	N/A
15. Perfluorobutanesulfonic acid	99194	021820	0.02	1.00	0.004	50.2	1.00	0.01	375-73-5	N/A	N/A
16. Perfluoro-1-pentanesulfonic acid	99544	011420	0.02	0.98	0.004	51.3	1.00	0.02	830402-22-1	N/A	N/A
17. Perfluorohexanesulfonic acid (branched)*	99198	091219	0.02	1.00	0.004	50.6	1.01	0.01	355-46-4	N/A	N/A
18. Perfluoro-1-heptanesulfonic acid	3672	LPFHpS0120	0.021	1.05	0.004	47.6	1.00	0.05	375-92-8	N/A	N/A
19. Heptadecafluorooctanesulfonic acid (branched)*	99201	021820	0.02	1.00	0.004	50.2	1.00	0.01	1763-23-1	N/A	N/A
20. Perfluoro-1-nonanesulfonic acid	3957	LPFNS1119	0.021	1.05	0.004	46.0	1.01	0.05	98789-57-2	N/A	N/A
21. Perfluoro-1-decane sulfonic acid	3671	LPFDS0419	0.021	1.05	0.004	48.2	1.01	0.05	2808-15-7	N/A	N/A
22. 1H,1H,2H,2H-Perfluorohexane sulfonic acid	3955	42FTS1019	0.0214	1.07	0.004	46.7	1.00	0.05	27819-93-8	N/A	N/A
23. 1H,1H,2H,2H-Perfluorooctane sulfonic acid	3661	82FTS0919	0.021	1.05	0.004	47.4	1.00	0.05	27819-94-9	N/A	N/A
24. 1H,1H,2H,2H-Perfluorodecane sulfonic acid	3662	82FTS0520	0.021	1.05	0.004	47.9	1.01	0.05	27819-96-1	N/A	N/A
25. 2-(Heptafluoropropoxy)-2,3,3,3-tetrafluoropropionic acid	99668	071219	0.020	1.00	0.004	50.1	1.00	0.01	13252-13-6	N/A	N/A
26. 11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid	4165	11CIPF3OUdS0320	0.021	1.06	0.004	47.1	1.00	0.05	83329-89-9	N/A	N/A
27. 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	4164	9CIPF3ONS0420	0.021	1.07	0.004	46.6	1.00	0.05	73606-19-6	N/A	N/A
28. Dodecafluoro-3H-4,8-dioxanonanolic acid (ADONA)	4103	NaDONA1119	0.021	1.06	0.004	47.1	1.00	0.05	958445-44-8	N/A	N/A
Perfluorooctanoic acid (linear)*	99202	021820	0.02	1.00	0.004	44.2	0.88	0.012	335-67-1	N/A	ipr-rel 189mg/kg
Perfluorooctanoic acid (branched isomer)*	99202	021820	0.02	1.00	0.004	6.0	0.12	0.002	335-67-1	N/A	ipr-rel 189mg/kg
Perfluorohexanesulfonic acid (linear)*	99198	091219	0.02	1.00	0.004	50.0	1.00	0.01	355-46-4	N/A	N/A
Perfluorohexanesulfonic acid (branched isomer)*	99198	091219	0.02	1.00	0.004	0.6	0.01	0.0002	355-46-4	N/A	N/A
Heptadecafluorooctanesulfonic acid (linear)*	99201	021820	0.02	1.00	0.004	38.2	0.76	0.01	1763-23-1	N/A	N/A
Heptadecafluorooctanesulfonic acid (branched isomer)*	99201	021820	0.02	1.00	0.004	7.5	0.15	0.002	1763-23-1	N/A	N/A
Heptadecafluorooctanesulfonic acid (branched isomer)*	99201	021820	0.02	1.00	0.004	4.0	0.08	0.001	1763-23-1	N/A	N/A
Heptadecafluorooctanesulfonic acid (branched isomer)*	99201	021820	0.02	1.00	0.004	0.5	0.010	0.0001	1763-23-1	N/A	N/A
N-Methylperfluoro-1-octanesulfonamidoacetic acid (linear)*	4162	brNMeFOSAA0119	0.02	1.00	0.004	34.2	0.68	0.03	2355-31-9	N/A	N/A
N-Methylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4162	brNMeFOSAA0119	0.02	1.00	0.004	10.5	0.21	0.011	00-00-0	N/A	N/A
N-Methylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4162	brNMeFOSAA0119	0.02	1.00	0.004	5.1	0.10	0.005	00-00-0	N/A	N/A
N-Methylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4162	brNMeFOSAA0119	0.02	1.00	0.004	0.3	0.005	0.00026	00-00-0	N/A	N/A
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (linear)*	4163	brNEIFOSAA0819	0.02	1.00	0.004	36.2	0.72	0.04	2991-50-6	N/A	N/A
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4163	brNEIFOSAA0819	0.02	1.00	0.004	8.7	0.17	0.009	00-00-0	N/A	N/A
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4163	brNEIFOSAA0819	0.02	1.00	0.004	4.5	0.09	0.005	00-00-0	N/A	N/A
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4163	brNEIFOSAA0819	0.02	1.00	0.004	0.6	0.012	0.0006	00-00-0	N/A	N/A

*Concentrations for branched and linear isomers are based on LCMS chromatographic analysis only.

A qualitative standard (Sect. 3.19) is available for PFOA that contains the linear and branched isomers (Wellington Labs, Cat. No. T-PFOA, or equivalent). This qualitative PFOA standard must be purchased and used to identify the retention times of the branched PFOA isomers, but the linear only PFOA standard must be used for quantitation (Sect. 12.2) until a quantitative PFOA standard containing the branched and linear isomers becomes commercially available.1

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with cap tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



It can be done

BDO Id: 200914-01

Reagent Receipt Report

Approved: Authorized

Name: PFOA DOD **Received:** 9/14/2020
Vendor: ABSOLUTE STANDARDS **Custodian:** Schumitz, Matt
Catalogue No: 64029 **Expires:** 8/26/2025
Type: Solution **Consumed:** _____
Lot No: 082620 **Stored In:** LC Laboratory - F0111
Quantity: 5 ea ML **% Moisture:** _____
Description: PFOA DOD

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
11-chloroeicosafuoro-3-oxaundecan	763051-92-9	1.0000	100.00	--	--	<input type="checkbox"/>			
1H,1H,2H,2H-Perfluorodecane sulfon	39108-34-4	1.0100	100.00	--	--	<input type="checkbox"/>			
1H,1H,2H,2H-Perfluorohexane sulfon	757124-72-4	1.0000	100.00	--	--	<input type="checkbox"/>			
1H,1H,2H,2H-Perfluorooctane sulfon	27619-97-2	1.0000	100.00	--	--	<input type="checkbox"/>			
9-chlorohexadecafluoro-3-oxanonane	756426-58-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Adona	919005-14-4	1.0000	100.00	--	--	<input type="checkbox"/>			
Hexafluoropropylene oxide dimer aci	13252-13-6	1.0000	100.00	--	--	<input type="checkbox"/>			
N-ethylperfluoro-octanesulfonamidoa	2991-50-6	1.0000	100.00	--	--	<input type="checkbox"/>			
N-methylperfluoro-1-octanesulfonami	2355-31-9	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-butanefluoride	375-73-5	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-decanesulfonate	335-77-3	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-heptanesulfonate	375-92-8	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-hexanesulfonate	355-46-4	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-nonanesulfonate	68259-12-1	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-octanesulfonamide	754-91-6	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-octanesulfonate	1763-23-1	1.0100	100.00	--	--	<input type="checkbox"/>			
perfluoro-1-pentanesulfonate	2706-91-4	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-butanoic Acid	375-22-4	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-decanoic Acid	335-76-2	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-dodecanoic acid	307-55-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-heptanoic Acid	375-85-9	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-hexanoic acid	307-24-4	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-octanoic Acid	335-67-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluorononanoic Acid	375-95-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-pentanoic acid	2706-90-3	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-tetradecanoic acid	376-06-7	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-tridecanoic acid	72629-94-8	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-undecanoic acid	2058-94-8	1.0000	100.00	--	--	<input type="checkbox"/>			

Total Analytes: 28

Notes:

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____



CERTIFIED WEIGHT REPORT

Part Number: 64029
Lot Number: 082620
Description: PFOA - DOD
28 components
Expiration Date: 082625
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 1.0
NIST Test ID#: 23060

Solvent(s): Methanol (1 mM KOH) 042920 (98%)
2-Propanol 23214 (2%)
Lot#
Formulated By: Benson Cran DATE 082620
Reviewed By: Pedro L. Rentas DATE 082620

Volume(s) shown below were combined and diluted to (mL): 50.0 0.007

Note: All assigned values are anion concentrations.

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.)		
									CAS#	OSHA PEL (TWA)	LD50
1. Perfluoro-n-butyric acid (linear)	99542	110419	0.02	1.00	0.004	50.2	1.00	0.01	375-22-4	N/A	N/A
2. Perfluoro-n-pentanoic acid	99543	110419	0.02	1.00	0.004	50.7	1.01	0.02	2706-90-3	N/A	N/A
3. Perfluorohexanoic acid	99199	010820	0.02	1.00	0.004	50.3	1.01	0.01	307-24-4	N/A	N/A
4. Perfluorooctanoic acid (linear)*	99202	021820	0.02	1.00	0.004	50.3	1.01	0.01	375-85-9	N/A	N/A
5. Perfluorooctanoic acid (branched)*	99202	021820	0.02	1.00	0.004	50.3	1.01	0.01	335-67-1	N/A	or-rel 180mg/kg
6. Perfluorononanoic acid	99200	110419	0.02	1.00	0.004	50.1	1.00	0.01	375-95-1	N/A	N/A
7. Perfluorodecanoic acid	99195	110419	0.02	1.00	0.004	50.1	1.00	0.01	335-76-2	N/A	or-rel 57mg/kg
8. Perfluoroundecanoic acid	99205	110419	0.02	1.00	0.004	50.1	1.00	0.01	2058-94-8	N/A	N/A
9. Tricosfluorododecanoic acid	99196	010820	0.02	1.00	0.004	50.1	1.00	0.01	307-55-1	N/A	N/A
10. Perfluortridecanoic acid	99204	110419	0.02	1.00	0.004	50.1	1.00	0.01	72529-94-8	N/A	N/A
11. Perfluortetradecanoic acid	99203	120319	0.02	1.00	0.004	50.1	1.00	0.01	376-06-7	N/A	N/A
12. Perfluoro-1-octanesulfonamide	3677	FOSA04201	0.02	1.00	0.004	50.0	1.00	0.05	754-91-6	N/A	N/A
13. N-Methylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4162	brMeFOSAA1119	0.02	1.00	0.004	50.0	1.00	0.05	00-00-0	N/A	N/A
14. N-Ethylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4163	brNEFOSAA0819	0.02	1.00	0.004	50.0	1.00	0.05	00-00-0	N/A	N/A
15. Perfluorobutanesulfonic acid	99194	021820	0.02	1.00	0.004	50.2	1.00	0.01	375-73-5	N/A	N/A
16. Perfluoro-1-pentanesulfonic acid	99544	011420	0.02	0.98	0.004	51.3	1.00	0.02	630402-22-1	N/A	N/A
17. Perfluorohexanesulfonic acid (branched)*	99198	081920	0.02	1.00	0.004	50.2	1.00	0.01	355-46-4	N/A	N/A
18. Perfluoro-1-heptanesulfonic acid	3672	LPFHs0120	0.021	1.05	0.004	47.6	1.00	0.05	375-92-8	N/A	N/A
19. Heptadecafluorooctanesulfonic acid (branched)*	99201	021820	0.02	1.00	0.004	50.2	1.00	0.01	1783-23-1	N/A	N/A
20. Perfluoro-1-nonanesulfonic acid	3957	LFFNS1119	0.021	1.05	0.004	48.0	1.01	0.05	98789-57-2	N/A	N/A
21. Perfluoro-1-decane sulfonic acid	3671	LFFDS1119	0.021	1.05	0.004	48.2	1.01	0.05	2806-15-7	N/A	N/A
22. 1H,1H,2H,2H-Perfluorohexane sulfonic acid	3955	42FTS0720	0.0214	1.07	0.004	46.7	1.00	0.05	27619-93-8	N/A	N/A
23. 1H,1H,2H,2H-Perfluorooctane sulfonic acid	3661	62FTS0420	0.021	1.05	0.004	47.4	1.00	0.05	27819-94-9	N/A	N/A
24. 1H,1H,2H,2H-Perfluorodecane sulfonic acid	3662	82FTS0520	0.021	1.05	0.004	47.9	1.01	0.05	27619-96-1	N/A	N/A
25. 2-(heptafluoropropoxy)-2,3,3,3-tetrafluoropropanoic acid	99966	061820	0.020	1.00	0.004	50.1	1.00	0.01	13252-13-6	N/A	N/A
26. 11-Chlorooctadecafluoro-3-oxaundecane-1-sulfonic acid	4165	11ClPF3OudS0320	0.021	1.06	0.004	47.1	1.00	0.05	83329-89-9	N/A	N/A
27. 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	4164	9ClPF3ONS0420	0.021	1.07	0.004	46.6	1.00	0.05	72606-19-6	N/A	N/A
28. Dodecafluoro-3H-4,8-dioxanonanoic acid (ADONA)	4103	NaDONA1119	0.021	1.06	0.004	47.1	1.00	0.05	958445-44-8	N/A	N/A

Perfluorooctanoic acid (linear)*	99202	021820	0.02	1.00	0.004	44.2	0.88	0.012	335-67-1	N/A	or-rel 180mg/kg
Perfluorooctanoic acid (branched isomer)*	99202	021820	0.02	1.00	0.004	6.0	0.12	0.002	335-67-1	N/A	or-rel 180mg/kg
Perfluorohexanesulfonic acid (linear)*	99198	081920	0.02	1.00	0.004	49.6	0.99	0.01	355-46-4	N/A	N/A
Perfluorohexanesulfonic acid (branched isomer)*	99198	081920	0.02	1.00	0.004	0.6	0.01	0.0002	355-46-4	N/A	N/A
Heptadecafluorooctanesulfonic acid (linear)*	99201	021820	0.02	1.00	0.004	38.2	0.76	0.01	1783-23-1	N/A	N/A
Heptadecafluorooctanesulfonic acid (branched isomer)*	99201	021820	0.02	1.00	0.004	7.5	0.15	0.002	1783-23-1	N/A	N/A
Heptadecafluorooctanesulfonic acid (branched isomer)*	99201	021820	0.02	1.00	0.004	4.0	0.08	0.001	1783-23-1	N/A	N/A
Heptadecafluorooctanesulfonic acid (branched isomer)*	99201	021820	0.02	1.00	0.004	0.5	0.010	0.0001	1783-23-1	N/A	N/A
N-Methylperfluoro-1-octanesulfonamidoacetic acid (linear)*	4162	brMeFOSAA0119	0.02	1.00	0.004	34.2	0.68	0.03	2355-31-9	N/A	N/A
N-Methylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4162	brMeFOSAA0119	0.02	1.00	0.004	10.5	0.21	0.011	00-00-0	N/A	N/A
N-Methylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4162	brMeFOSAA0119	0.02	1.00	0.004	5.1	0.10	0.005	00-00-0	N/A	N/A
N-Methylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4162	brMeFOSAA0119	0.02	1.00	0.004	0.3	0.005	0.00026	00-00-0	N/A	N/A
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (linear)*	4163	brNEFOSAA0819	0.02	1.00	0.004	36.2	0.72	0.04	2991-50-6	N/A	N/A
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4163	brNEFOSAA0819	0.02	1.00	0.004	6.7	0.17	0.009	00-00-0	N/A	N/A
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4163	brNEFOSAA0819	0.02	1.00	0.004	4.5	0.09	0.005	00-00-0	N/A	N/A
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4163	brNEFOSAA0819	0.02	1.00	0.004	0.6	0.012	0.0006	00-00-0	N/A	N/A

*Concentrations for branched and linear isomers are based on LCMS chromatographic analysis only.

A qualitative standard (Sect. 3.19) is available for PFOA that contains the linear and branched isomers (Wellington Labs, Cat. No. T-PFOA, or equivalent). This qualitative PFOA standard must be purchased and used to identify the retention times of the branched PFOA isomers, but the linear only PFOA standard must be used for quantitation (Sect. 12.2) until a quantitative PFOA standard containing the branched and linear isomers becomes commercially available. 1

The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
Standards are certified (+/-) 0.25% of the stated value, unless otherwise stated.
All standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
Uncertainty Reference: Taylor, B.N. and Kaye, C.C., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

ACCREDITATIONS

Accrediting Authority	Laboratory ID
U.S. Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP)	91667
State of Florida Department of Health	E87856
State of New York Department of Health	12105
State of Washington Department of Ecology	C1050
State of California	3045
Commonwealth of Massachusetts	E87856
State of Maine	MA00056
State of Vermont	VT 87856
State of New Hampshire	2137
Commonwealth of Pennsylvania Department of Environmental Protection	68-05687
State of Alaska Department of Environmental Conservation	19-005
State of Rhode Island	E87856

Current certificates and lists of accredited parameters are available upon request.



Sample Preparation



It can be done

**BATTELLE - NORWELL OPERATIONS
SAMPLE PREPARATION RECORDS**

<u>Project Title(s)</u>	<u>Project No.(s)</u>
CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10	100142218
20-1298	
CTO-4532: PFAS in Water	
AQ, SW	
SOP Numbers (see workplan for modifications)	
ExtractionSOP No.	5-370

This Batch Contains The Following Samples:			
DA891PB-FS	G1651-FS	G1658-FS	G1667MSD-FS
DA892LCS-FS	G1652-FS	G1661-FS	G1668-FS
G1644-FS	G1654-FS	G1663-FS	
G1645-FS	G1655-FS	G1664-FS	
G1646-FS	G1656-FS	G1665-FS	
G1647-FS	G1657-FS	G1666MS-FS	

Laboratory Preparation Records
COMPLETE AND VALIDATED

Prep Task Leader: Allison Wamness

Approved By:	Date	Initials
Denise Schumitz	11/04/2020	DMS



It can be done

BATTELLE - NORWELL OPERATIONS SAMPLE IDENTIFICATION PAGE

Project Title(s)CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10**Project No.(s)**

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Sample ID	Description
DA891PB-FS	Procedural Blank
DA892LCS-FS	Laboratory Control Sample
G1644-FS	CBD-AOA-SW07-1020
G1645-FS	CBD-AOA-SW05-1020
G1646-FS	CBD-AOA-SW03-1020
G1647-FS	CBD-AOA-SW04-1020
G1651-FS	CBD-AOA-SW02-1020
G1652-FS	CBD-AOA-SW02P-1020
G1654-FS	CBD-AOA-SW01-1020
G1655-FS	CBD-AOA-FB03-101320
G1656-FS	CBD-AOA-EB01-101320-SW
G1657-FS	CBD-AOA-EB01-101320-SD
G1658-FS	CBD-AOA-SW08-1020
G1661-FS	CBD-AOA-SW06-1020
G1663-FS	CBD-AOA-SW11-1020
G1664-FS	CBD-AOA-SW11P-1020
G1665-FS	CBD-AOA-SW10-1020
G1666MS-FS	Matrix Spike of CBD-AOA-SW10-1020-MS
G1667MSD-FS	Matrix Spike Duplicate of CBD-AOA-SW10-1020-SD
G1668-FS	CBD-AOA-SW09-1020

Samples Assigned By:

Matt Schumitz

Date : October 14, 2020

Comments:



It can be done

BATTELLE - NORWELL OPERATIONS SAMPLE CUSTODY LOG

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Requested On/By: 10/21/2020 AW	Purpose: Sample Preparation
Relinquished On/By: 10/21/2020 MDS	Last Activity: Transfer
Accepted On/By: 10/21/2020 AW Stored In Facility: Sample Preparation Stored Until: Stored Comment: NA	Returned On/To: Returned To Facility: Returned Comment: NA

No.	BDO-ID:	Ctrs	*	Condition:	Custody Comment:
1	G1644	1	C	Consumed	NA
2	G1645	1	C	Consumed	NA
3	G1646	1	C	Consumed	NA
4	G1647	1	C	Consumed	NA
5	G1651	1	C	Consumed	NA
6	G1652	1	C	Consumed	NA
7	G1654	1	C	Consumed	NA
8	G1655	1	C	Consumed	NA
9	G1656	1	C	Consumed	NA
10	G1657	1	C	Consumed	NA
11	G1658	1	C	Consumed	NA
12	G1661	1	C	Consumed	NA
13	G1663	1	C	Consumed	NA
14	G1664	1	C	Consumed	NA
15	G1665	1	C	Consumed	NA
16	G1668	1	C	Consumed	NA
Total Samples		16	* "C" = Consumed Container		



It can be done

BATTELLE - NORWELL OPERATIONS LIQUID SAMPLE ID FORM

Project Title(s)CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10**Project No.(s)**

100142218

20-1298

**CTO-4532: PFAS in Water
AQ, SW**

Sample ID	Description	Volume (mL)	Bottles	*	Date Initials
DA891PB-FS	Procedural Blank	245.0	NA	--	10/21/20 AW
DA892LCS-FS	Laboratory Control Sample	245.0	NA	--	10/21/20 AW
G1644-FS	CBD-AOA-SW07-1020	265.0	1	C	10/22/20 AW
G1645-FS	CBD-AOA-SW05-1020	260.0	1	C	10/22/20 AW
G1646-FS	CBD-AOA-SW03-1020	250.0	1	C	10/22/20 AW
G1647-FS	CBD-AOA-SW04-1020	247.0	1	C	10/22/20 AW
G1651-FS	CBD-AOA-SW02-1020	265.0	1	C	10/22/20 AW
G1652-FS	CBD-AOA-SW02P-1020	265.0	1	C	10/22/20 AW
G1654-FS	CBD-AOA-SW01-1020	270.0	1	C	10/22/20 AW
G1655-FS	CBD-AOA-FB03-101320	260.0	1	C	10/22/20 AW
G1656-FS	CBD-AOA-EB01-101320-SW	270.0	1	C	10/22/20 AW
G1657-FS	CBD-AOA-EB01-101320-SD	270.0	1	C	10/22/20 AW
G1658-FS	CBD-AOA-SW08-1020	265.0	1	C	10/22/20 AW
G1661-FS	CBD-AOA-SW06-1020	260.0	1	C	10/22/20 AW
G1663-FS	CBD-AOA-SW11-1020	265.0	1	C	10/22/20 AW
G1664-FS	CBD-AOA-SW11P-1020	270.0	1	C	10/22/20 AW
G1665-FS	CBD-AOA-SW10-1020	275.0	1	C	10/22/20 AW
G1666MS-FS	Matrix Spike	270.0	1	C	10/22/20 AW
G1667MSD-FS	Matrix Spike Duplicate	265.0	1	C	10/22/20 AW
G1668-FS	CBD-AOA-SW09-1020	250.0	1	C	10/22/20 AW

Comments:

Samples Assigned By:

Matt Schumitz

Date : October 14, 2020

* - "C" = Sample is Consumed



It can be done

**BATTELLE - NORWELL OPERATIONS
SURROGATE SPIKE FORM**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
DA891PB-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
DA892LCS-FS	LD43	LCS/MS	1	100	10/21/20 AW	KB	NA
DA892LCS-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1644-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1645-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1646-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1647-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1651-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1652-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1654-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1655-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1656-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1657-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1658-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1661-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1663-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1664-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1665-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1666MS-FS	LD43	LCS/MS	1	125	10/21/20 AW	KB	NA
G1666MS-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1667MSD-FS	LD43	LCS/MS	1	125	10/21/20 AW	KB	NA
G1667MSD-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA
G1668-FS	LD44	SIS	5	125	10/21/20 AW	KB	NA



It can be done

**BATTELLE - NORWELL OPERATIONS
SURROGATE SPIKE FORM**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
-----------	-------------	------	----------	----------------	---------------------------	-----------	---------

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
LD43	Pipette	B814657482
LD44	Pipette	B814657482



It can be done

BATTELLE - NORWELL OPERATIONS SAMPLE EXTRACTION FORM

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Conc. ID	Turbo °C	Turbo PSI	KD °C	Comment
DA891PB-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
DA892LCS-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1644-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1645-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1646-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1647-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1651-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1652-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1654-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1655-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1656-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1657-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1658-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1661-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1663-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1664-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1665-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1666MS-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1667MSD-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA
G1668-FS	10/21/20 AW	NA	NA	NEVAP_4	NA	NA	NA	NA



It can be done

BATTELLE - NORWELL OPERATIONS SAMPLE EXTRACTION FORM

Project Title(s)CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10**Project No.(s)**

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Conc. ID	Turbo °C	Turbo PSI	KD °C	Comment
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Solvents/Reagent Preparations:

Name	ID	Expires	Lot No	Procedure	Comments
pH Indicator Strips 0-14	200923-01	09/23/25	10D0401	NA	
0.5% NH3 in Methanol (w/v)	RP-201021-1	10/21/20	A0409799	Per 100 mL, 4.25 mL ammonia solution brought to 100 mL with methanol	
0.5% NH3 in Methanol (w/v)	RP-201021-1	10/21/20	201527	Per 100 mL, 4.25 mL ammonia solution brought to 100 mL with methanol	
Pre-packed SPE Column	RP-201021-3	10/21/20	S308-0116/S20-004415	Pre-packed SPE Column	

Solvents/Reagents:

Name	Lot No	Comments
Methanol HPLC (201009-02)	201527	



It can be done

**BATTELLE - NORWELL OPERATIONS
EXTRACT CLEANUP FORM**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

Extract Id	Date	Init.	Comments
DA891PB-FS(0)	10/21/20	AW	NA
DA892LCS-FS(0)	10/21/20	AW	NA
G1644-FS(0)	10/21/20	AW	NA
G1645-FS(0)	10/21/20	AW	NA
G1646-FS(0)	10/21/20	AW	NA
G1647-FS(0)	10/21/20	AW	NA
G1651-FS(0)	10/21/20	AW	NA
G1652-FS(0)	10/21/20	AW	NA
G1654-FS(0)	10/21/20	AW	NA
G1655-FS(0)	10/21/20	AW	NA
G1656-FS(0)	10/21/20	AW	NA
G1657-FS(0)	10/21/20	AW	NA
G1658-FS(0)	10/21/20	AW	NA
G1661-FS(0)	10/21/20	AW	NA
G1663-FS(0)	10/21/20	AW	NA
G1664-FS(0)	10/21/20	AW	NA
G1665-FS(0)	10/21/20	AW	NA
G1666MS-FS(0)	10/21/20	AW	NA



It can be done

**BATTELLE - NORWELL OPERATIONS
EXTRACT CLEANUP FORM**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

Extract Id	Date	Init.	Comments
G1667MSD-FS(0)	10/21/20	AW	NA
G1668-FS(0)	10/21/20	AW	NA

Cleanup:

Envi-Carb

Reagents:

Reagent Prep	Name	Expires	Lot No	Procedure
191209-01	Supelclean ENVI- Carb SPE Bulk Packing	12/09/24	122395	NA



It can be done

**BATTELLE - NORWELL OPERATIONS
EXTRACT CLEANUP FORM**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

Extract Id	Date	Init.	Comments
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It can be done

**BATTELLE - NORWELL OPERATIONS
INTERNAL STANDARD SPIKING FORM**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
DA891PB-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
DA892LCS-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1644-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1644-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW
G1644-FS-D(5)	925	75	LD56	125	7	1000	12.500	11/02/20 KH	AW
G1645-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1645-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW
G1645-FS-D(5)	925	75	LD56	125	7	1000	12.500	11/02/20 KH	AW
G1645-FS-D(7)	925	75	LD56	125	8	1000	31.250	11/03/20 KB	RPK
G1646-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1646-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW
G1647-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1647-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW
G1651-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1652-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1654-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1655-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1656-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1657-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



It can be done

**BATTELLE - NORWELL OPERATIONS
INTERNAL STANDARD SPIKING FORM**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
G1658-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1658-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW
G1658-FS-D(5)	925	75	LD56	125	7	1000	12.500	11/02/20 KH	AW
G1658-FS-D(7)	900	100	LD56	125	7	1000	62.500	11/02/20 KH	AW
G1661-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1661-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW
G1661-FS-D(5)	900	100	LD56	125	7	1000	25.000	11/02/20 KH	AW
G1661-FS-D(7)	925	75	LD56	125	7	1000	62.500	11/02/20 KH	AW
G1663-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1663-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW
G1663-FS-D(5)	925	75	LD56	125	7	1000	12.500	11/02/20 KH	AW
G1663-FS-D(7)	925	75	LD56	125	7	1000	31.250	11/02/20 KH	AW
G1663-FS-D(9)	900	100	LD56	125	8	1000	156.250	11/03/20 KB	RPK
G1664-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1664-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW
G1664-FS-D(5)	925	75	LD56	125	7	1000	12.500	11/02/20 KH	AW
G1664-FS-D(7)	900	100	LD56	125	7	1000	62.500	11/02/20 KH	AW
G1665-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1665-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



It can be done

BATTELLE - NORWELL OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
G1665-FS-D(5)	925	75	LD56	125	7	1000	12.500	11/02/20 KH	AW
G1665-FS-D(7)	925	75	LD56	125	7	1000	31.250	11/02/20 KH	AW
G1665-FS-D(9)	900	100	LD56	125	8	1000	156.250	11/03/20 KB	RPK
G1666MS-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1666MS-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW
G1666MS-FS-D(5)	925	75	LD56	125	7	1000	12.500	11/02/20 KH	AW
G1666MS-FS-D(7)	900	100	LD56	125	7	1000	62.500	11/02/20 KH	AW
G1666MS-FS-D(9)	925	75	LD56	125	8	1000	156.250	11/03/20 KB	RPK
G1667MSD-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1667MSD-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW
G1667MSD-FS-D(5)	925	75	LD56	125	7	1000	12.500	11/02/20 KH	AW
G1667MSD-FS-D(7)	925	75	LD56	125	7	1000	31.250	11/02/20 KH	AW
G1667MSD-FS-D(9)	925	75	LD56	125	8	1000	78.125	11/03/20 KB	RPK
G1668-FS(0)	875	125	LD56	125	7	1000	1.000	11/02/20 KH	AW
G1668-FS-D(3)	900	100	LD56	125	7	1000	5.000	11/02/20 KH	AW
G1668-FS-D(5)	900	100	LD56	125	7	1000	25.000	11/02/20 KH	AW
G1668-FS-D(7)	925	75	LD56	125	8	1000	62.500	11/03/20 KB	RPK

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



It can be done

**BATTELLE - NORWELL OPERATIONS
INTERNAL STANDARD SPIKING FORM**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
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Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
LD44	Pipette	B814657482
LD56	Pipette	B814657482

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



It can be done

BATTELLE - NORWELL OPERATIONS EXTRACT SPIKE FORM

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Extract Id	DF	Std. ID	Type	Vial No.	Vol. Added (uL)	Conc (ug/mL)	Added (ng)	Date Spiked/ Spiked By	Witn'd By
G1644-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1644-FS-D(5)	12.5	LD44	SIS	7	75	0	0	11/02/20 KH	AW
G1645-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1645-FS-D(5)	12.5	LD44	SIS	7	75	0	0	11/02/20 KH	AW
G1645-FS-D(7)	31.25	LD44	SIS	8	75	0	0	11/03/20 KB	RPK
G1646-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1647-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1658-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1658-FS-D(5)	12.5	LD44	SIS	7	75	0	0	11/02/20 KH	AW
G1658-FS-D(7)	62.5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1661-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1661-FS-D(5)	25	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1661-FS-D(7)	62.5	LD44	SIS	7	75	0	0	11/02/20 KH	AW
G1663-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1663-FS-D(5)	12.5	LD44	SIS	7	75	0	0	11/02/20 KH	AW
G1663-FS-D(7)	31.25	LD44	SIS	7	75	0	0	11/02/20 KH	RPK
G1663-FS-D(9)	156.25	LD44	SIS	8	100	0	0	11/03/20 KB	AW
G1664-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1664-FS-D(5)	12.5	LD44	SIS	7	75	0	0	11/02/20 KH	AW
G1664-FS-D(7)	62.5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1665-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1665-FS-D(5)	12.5	LD44	SIS	7	75	0	0	11/02/20 KH	AW
G1665-FS-D(7)	31.25	LD44	SIS	7	75	0	0	11/02/20 KH	RPK
G1665-FS-D(9)	156.25	LD44	SIS	8	100	0	0	11/03/20 KB	AW
G1666MS-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW



It can be done

BATTELLE - NORWELL OPERATIONS EXTRACT SPIKE FORM

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

Extract Id	DF	Std. ID	Type	Vial No.	Vol. Added (uL)	Conc (ug/mL)	Added (ng)	Date Spiked/ Spiked By	Witn'd By
G1666MS-FS-D(5)	12.5	LD44	SIS	7	75	0	0	11/02/20 KH	AW
G1666MS-FS-D(7)	62.5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1666MS-FS-D(9)	156.25	LD44	SIS	8	75	0	0	11/03/20 KB	RPK
G1667MSD-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1667MSD-FS-D(5)	12.5	LD44	SIS	7	75	0	0	11/02/20 KH	AW
G1667MSD-FS-D(7)	31.25	LD44	SIS	7	75	0	0	11/02/20 KH	AW
G1667MSD-FS-D(9)	78.125	LD44	SIS	8	75	0	0	11/03/20 KB	RPK
G1668-FS-D(3)	5	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1668-FS-D(5)	25	LD44	SIS	7	100	0	0	11/02/20 KH	AW
G1668-FS-D(7)	62.5	LD44	SIS	8	75	0	0	11/03/20 KB	RPK

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
LD44	Pipette	B814657482
LD56	Pipette	B814657482



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
DA891PB-FS	0	--	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
DA892LCS-FS	0	--	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1644-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1644-FS	2	--	11/2/2020 3:08:00 PM	G1644-FS	0	1000	800	1.250	1.250	11/02/20 KH
G1644-FS-D	3	C	11/2/2020 3:08:00 PM	G1644-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1644-FS-D	4	--	11/2/2020 3:11:00 PM	G1644-FS-D	3	1000	600	1.667	8.333	11/02/20 KH
G1644-FS-D	5	--	11/2/2020 3:11:00 PM	G1644-FS-D	3	1000	400	2.500	12.500	11/02/20 KH
G1645-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1645-FS	2	--	11/2/2020 3:08:00 PM	G1645-FS	0	1000	800	1.250	1.250	11/02/20 KH
G1645-FS-D	3	C	11/2/2020 3:08:00 PM	G1645-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1645-FS-D	4	--	11/2/2020 3:11:00 PM	G1645-FS-D	3	1000	600	1.667	8.333	11/02/20 KH
G1645-FS-D	5	C	11/2/2020 3:11:00 PM	G1645-FS-D	3	1000	400	2.500	12.500	11/02/20 KH
G1645-FS-D	6	--	11/3/2020 4:33:00 PM	G1645-FS-D	5	1000	600	1.667	20.833	11/03/20 KB
G1645-FS-D	7	--	11/3/2020 4:33:00 PM	G1645-FS-D	5	1000	400	2.500	31.250	11/03/20 KB

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1646-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1646-FS	2	--	11/2/2020 3:08:00 PM	G1646-FS	0	1000	800	1.250	1.250	11/02/20 KH
G1646-FS-D	3	--	11/2/2020 3:08:00 PM	G1646-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1647-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1647-FS	2	--	11/2/2020 3:08:00 PM	G1647-FS	0	1000	800	1.250	1.250	11/02/20 KH
G1647-FS-D	3	--	11/2/2020 3:08:00 PM	G1647-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1651-FS	0	--	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1652-FS	0	--	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1654-FS	0	--	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1655-FS	0	--	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1656-FS	0	--	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1657-FS	0	--	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1658-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1658-FS	2	--	11/2/2020 3:08:00 PM	G1658-FS	0	1000	800	1.250	1.250	11/02/20 KH

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1658-FS-D	3	C	11/2/2020 3:08:00 PM	G1658-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1658-FS-D	4	--	11/2/2020 3:11:00 PM	G1658-FS-D	3	1000	600	1.667	8.333	11/02/20 KH
G1658-FS-D	5	C	11/2/2020 3:11:00 PM	G1658-FS-D	3	1000	400	2.500	12.500	11/02/20 KH
G1658-FS-D	6	--	11/2/2020 3:14:00 PM	G1658-FS-D	5	1000	800	1.250	15.625	11/02/20 KH
G1658-FS-D	7	--	11/2/2020 3:14:00 PM	G1658-FS-D	5	1000	200	5.000	62.500	11/02/20 KH
G1661-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1661-FS	2	--	11/2/2020 3:08:00 PM	G1661-FS	0	1000	800	1.250	1.250	11/02/20 KH
G1661-FS-D	3	C	11/2/2020 3:08:00 PM	G1661-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1661-FS-D	4	--	11/2/2020 3:14:00 PM	G1661-FS-D	3	1000	800	1.250	6.250	11/02/20 KH
G1661-FS-D	5	C	11/2/2020 3:14:00 PM	G1661-FS-D	3	1000	200	5.000	25.000	11/02/20 KH
G1661-FS-D	6	--	11/2/2020 3:21:00 PM	G1661-FS-D	5	1000	600	1.667	41.667	11/02/20 KH
G1661-FS-D	7	--	11/2/2020 3:21:00 PM	G1661-FS-D	5	1000	400	2.500	62.500	11/02/20 KH
G1663-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1663-FS	2	--	11/2/2020 3:08:00 PM	G1663-FS	0	1000	800	1.250	1.250	11/02/20 KH

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1663-FS-D	3	C	11/2/2020 3:08:00 PM	G1663-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1663-FS-D	4	--	11/2/2020 3:11:00 PM	G1663-FS-D	3	1000	600	1.667	8.333	11/02/20 KH
G1663-FS-D	5	C	11/2/2020 3:11:00 PM	G1663-FS-D	3	1000	400	2.500	12.500	11/02/20 KH
G1663-FS-D	6	--	11/2/2020 3:21:00 PM	G1663-FS-D	5	1000	600	1.667	20.833	11/02/20 KH
G1663-FS-D	7	C	11/2/2020 3:21:00 PM	G1663-FS-D	5	1000	400	2.500	31.250	11/02/20 KH
G1663-FS-D	8	--	11/3/2020 4:39:00 PM	G1663-FS-D	7	1000	800	1.250	39.063	11/03/20 KB
G1663-FS-D	9	--	11/3/2020 4:39:00 PM	G1663-FS-D	7	1000	200	5.000	156.250	11/03/20 KB
G1664-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1664-FS	2	--	11/2/2020 3:08:00 PM	G1664-FS	0	1000	800	1.250	1.250	11/02/20 KH
G1664-FS-D	3	C	11/2/2020 3:08:00 PM	G1664-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1664-FS-D	4	--	11/2/2020 3:11:00 PM	G1664-FS-D	3	1000	600	1.667	8.333	11/02/20 KH
G1664-FS-D	5	C	11/2/2020 3:11:00 PM	G1664-FS-D	3	1000	400	2.500	12.500	11/02/20 KH
G1664-FS-D	6	--	11/2/2020 3:14:00 PM	G1664-FS-D	5	1000	800	1.250	15.625	11/02/20 KH
G1664-FS-D	7	--	11/2/2020 3:14:00 PM	G1664-FS-D	5	1000	200	5.000	62.500	11/02/20 KH

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1665-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1665-FS	2	--	11/2/2020 3:08:00 PM	G1665-FS	0	1000	800	1.250	1.250	11/02/20 KH
G1665-FS-D	3	C	11/2/2020 3:08:00 PM	G1665-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1665-FS-D	4	--	11/2/2020 3:11:00 PM	G1665-FS-D	3	1000	600	1.667	8.333	11/02/20 KH
G1665-FS-D	5	C	11/2/2020 3:11:00 PM	G1665-FS-D	3	1000	400	2.500	12.500	11/02/20 KH
G1665-FS-D	6	--	11/2/2020 3:21:00 PM	G1665-FS-D	5	1000	600	1.667	20.833	11/02/20 KH
G1665-FS-D	7	C	11/2/2020 3:21:00 PM	G1665-FS-D	5	1000	400	2.500	31.250	11/02/20 KH
G1665-FS-D	8	--	11/3/2020 4:39:00 PM	G1665-FS-D	7	1000	800	1.250	39.063	11/03/20 KB
G1665-FS-D	9	--	11/3/2020 4:39:00 PM	G1665-FS-D	7	1000	200	5.000	156.250	11/03/20 KB
G1666MS-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1666MS-FS	2	--	11/2/2020 3:08:00 PM	G1666MS-FS	0	1000	800	1.250	1.250	11/02/20 KH
G1666MS-FS-D	3	C	11/2/2020 3:08:00 PM	G1666MS-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1666MS-FS-D	4	--	11/2/2020 3:11:00 PM	G1666MS-FS-D	3	1000	600	1.667	8.333	11/02/20 KH
G1666MS-FS-D	5	C	11/2/2020 3:11:00 PM	G1666MS-FS-D	3	1000	400	2.500	12.500	11/02/20 KH

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1666MS-FS-D	6	--	11/2/2020 3:14:00 PM	G1666MS-FS-D	5	1000	800	1.250	15.625	11/02/20 KH
G1666MS-FS-D	7	C	11/2/2020 3:14:00 PM	G1666MS-FS-D	5	1000	200	5.000	62.500	11/02/20 KH
G1666MS-FS-D	8	--	11/3/2020 4:33:00 PM	G1666MS-FS-D	7	1000	600	1.667	104.167	11/03/20 KB
G1666MS-FS-D	9	--	11/3/2020 4:33:00 PM	G1666MS-FS-D	7	1000	400	2.500	156.250	11/03/20 KB
G1667MSD-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW
G1667MSD-FS	2	--	11/2/2020 3:08:00 PM	G1667MSD-FS	0	1000	800	1.250	1.250	11/02/20 KH
G1667MSD-FS-D	3	C	11/2/2020 3:08:00 PM	G1667MSD-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1667MSD-FS-D	4	--	11/2/2020 3:11:00 PM	G1667MSD-FS-D	3	1000	600	1.667	8.333	11/02/20 KH
G1667MSD-FS-D	5	C	11/2/2020 3:11:00 PM	G1667MSD-FS-D	3	1000	400	2.500	12.500	11/02/20 KH
G1667MSD-FS-D	6	--	11/2/2020 3:21:00 PM	G1667MSD-FS-D	5	1000	600	1.667	20.833	11/02/20 KH
G1667MSD-FS-D	7	C	11/2/2020 3:21:00 PM	G1667MSD-FS-D	5	1000	400	2.500	31.250	11/02/20 KH
G1667MSD-FS-D	8	--	11/3/2020 4:33:00 PM	G1667MSD-FS-D	7	1000	600	1.667	52.083	11/03/20 KB
G1667MSD-FS-D	9	--	11/3/2020 4:33:00 PM	G1667MSD-FS-D	7	1000	400	2.500	78.125	11/03/20 KB
G1668-FS	0	C	10/21/2020 11:47:00 AM	NA		NA	NA	1.000	1.000	10/21/20 AW

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298**CTO-4532: PFAS in Water****AQ, SW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1668-FS	2	--	11/2/2020 3:08:00 PM	G1668-FS	0	1000	800	1.250	1.250	11/02/20 KH
G1668-FS-D	3	C	11/2/2020 3:08:00 PM	G1668-FS	0	1000	200	5.000	5.000	11/02/20 KH
G1668-FS-D	4	--	11/2/2020 3:14:00 PM	G1668-FS-D	3	1000	800	1.250	6.250	11/02/20 KH
G1668-FS-D	5	C	11/2/2020 3:14:00 PM	G1668-FS-D	3	1000	200	5.000	25.000	11/02/20 KH
G1668-FS-D	6	--	11/3/2020 4:33:00 PM	G1668-FS-D	5	1000	600	1.667	41.667	11/03/20 KB
G1668-FS-D	7	--	11/3/2020 4:33:00 PM	G1668-FS-D	5	1000	400	2.500	62.500	11/03/20 KB

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

**BATTELLE - NORWELL OPERATIONS
EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

Purpose:	LC-MS/MS TRANSFER	Last Activity:	Prep->Inst
Relinquished On/By:	Nov 2 2020 5:10PM SAS	Received On/By:	Nov 2 2020 5:10PM SAS
Relinquished From:	Sample Preparation: NA	Received Location:	LC Laboratory: NA
Relinquish Comment:	NA	Received Comment:	NA

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	DA891PB-FS(0)	1000	1	Intact	NA
2	DA892LCS-FS(0)	1000	1	Intact	NA
3	G1644-FS(0)	1000	1	Intact	NA
4	G1644-FS-D(3)	1000	5	Intact	NA
5	G1644-FS-D(5)	1000	12.5	Intact	NA
6	G1645-FS(0)	1000	1	Intact	NA
7	G1645-FS-D(3)	1000	5	Intact	NA
8	G1645-FS-D(5)	1000	12.5	Intact	NA
9	G1646-FS(0)	1000	1	Intact	NA
10	G1646-FS-D(3)	1000	5	Intact	NA
11	G1647-FS(0)	1000	1	Intact	NA
12	G1647-FS-D(3)	1000	5	Intact	NA
13	G1651-FS(0)	1000	1	Intact	NA
14	G1652-FS(0)	1000	1	Intact	NA
15	G1654-FS(0)	1000	1	Intact	NA
16	G1655-FS(0)	1000	1	Intact	NA
17	G1656-FS(0)	1000	1	Intact	NA
18	G1657-FS(0)	1000	1	Intact	NA
19	G1658-FS(0)	1000	1	Intact	NA
20	G1658-FS-D(3)	1000	5	Intact	NA
21	G1658-FS-D(5)	1000	12.5	Intact	NA
22	G1658-FS-D(7)	1000	62.5	Intact	NA
23	G1661-FS(0)	1000	1	Intact	NA
24	G1661-FS-D(3)	1000	5	Intact	NA
25	G1661-FS-D(5)	1000	25	Intact	NA
26	G1661-FS-D(7)	1000	62.5	Intact	NA
27	G1663-FS(0)	1000	1	Intact	NA
28	G1663-FS-D(3)	1000	5	Intact	NA



It can be done

**BATTELLE - NORWELL OPERATIONS
EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

29	G1663-FS-D(5)	1000	12.5	Intact	NA
30	G1663-FS-D(7)	1000	31.25	Intact	NA
31	G1664-FS(0)	1000	1	Intact	NA
32	G1664-FS-D(3)	1000	5	Intact	NA
33	G1664-FS-D(5)	1000	12.5	Intact	NA
34	G1664-FS-D(7)	1000	62.5	Intact	NA
35	G1665-FS(0)	1000	1	Intact	NA
36	G1665-FS-D(3)	1000	5	Intact	NA
37	G1665-FS-D(5)	1000	12.5	Intact	NA
38	G1665-FS-D(7)	1000	31.25	Intact	NA
39	G1666MS-FS(0)	1000	1	Intact	NA
40	G1666MS-FS-D(3)	1000	5	Intact	NA
41	G1666MS-FS-D(5)	1000	12.5	Intact	NA
42	G1666MS-FS-D(7)	1000	62.5	Intact	NA
43	G1667MSD-FS(0)	1000	1	Intact	NA
44	G1667MSD-FS-D(3)	1000	5	Intact	NA
45	G1667MSD-FS-D(5)	1000	12.5	Intact	NA
46	G1667MSD-FS-D(7)	1000	31.25	Intact	NA
47	G1668-FS(0)	1000	1	Intact	NA
48	G1668-FS-D(3)	1000	5	Intact	NA
49	G1668-FS-D(5)	1000	25	Intact	NA

Total Extracts: 49



It can be done

**BATTELLE - NORWELL OPERATIONS
EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

Purpose: LC-MS/MS TRANSFER		Last Activity: Prep->Inst			
Relinquished On/By: Nov 3 2020 4:50PM SAS		Received On/By: Nov 3 2020 4:50PM DMS			
Relinquished From: Sample Preparation: NA		Received Location: LC Laboratory: NA			
Relinquish Comment: NA		Received Comment: NA			
No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	G1645-FS-D(7)	1000	31.25	Intact	NA
2	G1663-FS-D(9)	1000	156.25	Intact	NA
3	G1665-FS-D(9)	1000	156.25	Intact	NA
4	G1666MS-FS-D(9)	1000	156.25	Intact	NA
5	G1667MSD-FS-D(9)	1000	78.125	Intact	NA
6	G1668-FS-D(7)	1000	62.5	Intact	NA
Total Extracts:		6			



BATTELLE - NORWELL OPERATIONS SAMPLE SPECIFIC COMMENTS

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

Sample ID:	Comment:	Date/Initials:
DA891PB-FS	Sample was fortified per project plan, and was poured into a centrifuge bottle and centrifuged at 3500 RPM, for 5 minutes and then poured back into original sample container.	10/21/20 AW
DA891PB-FS	Extraction started at 11:47 AM, manifold 2, ended at 12:47 PM	10/21/20 AW
DA892LCS-FS	Sample was fortified per project plan, and was poured into a centrifuge bottle and centrifuged at 3500 RPM, for 5 minutes and then poured back into original sample container.	10/21/20 AW
DA892LCS-FS	Extraction started at 11:47 AM, manifold 2, ended at 12:40 PM	10/21/20 AW
G1644-FS	Extraction started at 11:47 AM, manifold 2, ended at 1:15 PM	10/21/20 AW
G1644-FS	Sample contained particulates	10/21/20 AW
G1645-FS	Extraction started at 11:47 AM, manifold 2, ended at 1:49 PM	10/21/20 AW
G1645-FS	Sample clogged the top filter of the SPE cartridge during extraction, the filter was popped and left inside the SPE cartridge for the remainder of the extraction and elution process.	10/21/20 AW
G1646-FS	Extraction started at 11:47 AM, manifold 5, ended at 1:10 PM	10/21/20 AW
G1646-FS	Sample contained particulates	10/21/20 AW
G1647-FS	Extraction started at 11:47 AM, manifold 5, ended at 1:21 PM	10/21/20 AW
G1647-FS	Sample contained particulates	10/21/20 AW
G1651-FS	Extraction started at 11:47 AM, manifold 5, ended at 2:08 PM	10/21/20 AW
G1651-FS	Sample clogged the top filter of the SPE cartridge during extraction, the filter was popped and left inside the SPE cartridge for the remainder of the extraction and elution process.	10/21/20 AW
G1652-FS	Extraction started at 11:47 AM, manifold 5, ended at 2:00 PM	10/21/20 AW
G1652-FS	Sample clogged the top filter of the SPE cartridge during extraction, the filter was popped and left inside the SPE cartridge for the remainder of the extraction and elution process.	10/21/20 AW
G1654-FS	Extraction started at 11:47 AM, manifold 5, ended at 2:31 PM	10/21/20 AW
G1654-FS	Sample clogged the top filter of the SPE cartridge during extraction, the filter was popped and left inside the SPE cartridge for the remainder of the extraction and elution process.	10/21/20 AW
G1654-FS	Sample contained vegetation	10/21/20 AW
G1655-FS	Extraction started at 11:47 AM, manifold 2, ended at 12:54 PM	10/21/20 AW
G1656-FS	Extraction started at 11:47 AM, manifold 2, ended at 12:50 PM	10/21/20 AW
G1657-FS	Extraction started at 11:47 AM, manifold 2, ended at 12:54 PM	10/21/20 AW
G1658-FS	Extraction started at 11:47 AM, manifold 5, ended at 12:57 PM	10/21/20 AW



BATTELLE - NORWELL OPERATIONS SAMPLE SPECIFIC COMMENTS

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

Sample ID:	Comment:	Date/Initials:
G1658-FS	Sample contained particulates	10/21/20 AW
G1661-FS	Extraction started at 11:47 AM, manifold 5, ended at 12:45 PM	10/21/20 AW
G1661-FS	Sample contained particulates	10/21/20 AW
G1663-FS	Extraction started at 11:47 AM, manifold 5, ended at 1:47 PM	10/21/20 AW
G1663-FS	Sample clogged the top filter of the SPE cartridge during extraction, the filter was popped and left inside the SPE cartridge for the remainder of the extraction and elution process.	10/21/20 AW
G1664-FS	Extraction started at 11:47 AM, manifold 5, ended at	10/21/20 AW
G1664-FS	Sample clogged the top filter of the SPE cartridge during extraction, the filter was popped and left inside the SPE cartridge for the remainder of the extraction and elution process.	10/21/20 AW
G1665-FS	Extraction started at 11:47 AM, manifold 2, ended at 1:06 PM	10/21/20 AW
G1665-FS	Sample contained particulates	10/21/20 AW
G1666MS-FS	Extraction started at 11:47 AM, manifold 2, ended at 1:07 PM	10/21/20 AW
G1666MS-FS	Sample contained particulates	10/21/20 AW
G1667MSD-FS	Extraction started at 11:47 AM, manifold 2, ended at 1:06 PM	10/21/20 AW
G1667MSD-FS	Sample contained particulates	10/21/20 AW
G1668-FS	Sample was fortified per project plan, and was poured into a centrifuge bottle and centrifuged at 3500 RPM, for 5 minutes and then poured back into original sample container.	10/21/20 AW
G1668-FS	Extraction started at 11:47 AM, manifold 5, ended at	10/21/20 AW



It can be done

**BATTELLE - NORWELL OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM**

Project Title(s)

CTO-4532: NRL Chesapeake Bay Detachment (NRL-
CBD) Site 10

Project No.(s)

100142218

20-1298

CTO-4532: PFAS in Water

AQ, SW

Entered By:

On:

Task Leader Approval:

On:

Supervisor Approval:

On:

PM Approval:

On:

Analytical Calibrations



Sequence Report

Created with Analyst Reporter
Printed: 04/11/2020 5:21:34 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
11	MeOH		10/30/2020 2:57:13 AM	5-369.dam	AE_10292020_5-369.wiff
2	LD74	L1	10/30/2020 3:07:41 AM	5-369.dam	AE_10292020_5-369.wiff
3	LD75	L2	10/30/2020 3:18:08 AM	5-369.dam	AE_10292020_5-369.wiff
4	LD76	L3	10/30/2020 3:28:36 AM	5-369.dam	AE_10292020_5-369.wiff
5	LD77	L4	10/30/2020 3:39:03 AM	5-369.dam	AE_10292020_5-369.wiff
6	LD78	L5	10/30/2020 3:49:29 AM	5-369.dam	AE_10292020_5-369.wiff
7	LD79	L6	10/30/2020 3:59:58 AM	5-369.dam	AE_10292020_5-369.wiff
8	LD80 IB	Instrument Blank	10/30/2020 4:10:26 AM	5-369.dam	AE_10292020_5-369.wiff
9	LD81 ICC	ICC	10/30/2020 4:20:54 AM	5-369.dam	AE_10292020_5-369.wiff
10	LD10 Branch	Branch Standard	10/30/2020 4:31:23 AM	5-369.dam	AE_10292020_5-369.wiff



Sequence Report

Created with Analyst Reporter
Printed: 04/11/2020 5:24:33 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
1	MeOH		11/2/2020 9:23:50 AM	5-369.dam	AE_11022020_5-369.wiff
2	LD76 CCV	CCV	11/2/2020 9:34:18 AM	5-369.dam	AE_11022020_5-369.wiff
3	LD79	L6	11/2/2020 9:44:45 AM	5-369.dam	AE_11022020_5-369.wiff
4	LD80 IB	Instrument Blank	11/2/2020 9:55:12 AM	5-369.dam	AE_11022020_5-369.wiff
5	MeOH		11/2/2020 10:05:39 AM	5-369.dam	AE_11022020_5-369.wiff
6	DA869PB-FS(0)		11/2/2020 10:16:05 AM	5-369.dam	AE_11022020_5-369.wiff
7	G1560-FS(0)		11/2/2020 10:26:32 AM	5-369.dam	AE_11022020_5-369.wiff
8	G1554-FS-D(5)		11/2/2020 10:36:59 AM	5-369.dam	AE_11022020_5-369.wiff
9	MeOH		11/2/2020 10:47:44 AM	5-369.dam	AE_11022020_5-369.wiff
10	LD77 CCV	CCV	11/2/2020 10:58:11 AM	5-369.dam	AE_11022020_5-369.wiff
1	MeOH		11/2/2020 5:13:34 PM	5-369.dam	AE_11022020_5-369.wiff
2	LD76 CCV	CCV	11/2/2020 5:24:03 PM	5-369.dam	AE_11022020_5-369.wiff
3	MeOH		11/2/2020 5:34:31 PM	5-369.dam	AE_11022020_5-369.wiff
4	DA860PB-FS(0)		11/2/2020 5:44:58 PM	5-369.dam	AE_11022020_5-369.wiff
5	DA861LCS-FS(0)		11/2/2020 5:55:27 PM	5-369.dam	AE_11022020_5-369.wiff
6	G1524-FS(0)		11/2/2020 6:05:55 PM	5-369.dam	AE_11022020_5-369.wiff
7	G1525-FS(0)		11/2/2020 6:16:23 PM	5-369.dam	AE_11022020_5-369.wiff
8	LD77 CCV	CCV	11/2/2020 6:26:51 PM	5-369.dam	AE_11022020_5-369.wiff
9	MeOH		11/2/2020 6:37:20 PM	5-369.dam	AE_11022020_5-369.wiff
10	DA858PB-FS(3)		11/2/2020 6:47:48 PM	5-369.dam	AE_11022020_5-369.wiff
11	DA859LCS-FS(3)		11/2/2020 6:58:15 PM	5-369.dam	AE_11022020_5-369.wiff
12	G1517-FS(3)		11/2/2020 7:08:43 PM	5-369.dam	AE_11022020_5-369.wiff
13	G1518-FS(3)		11/2/2020 7:19:11 PM	5-369.dam	AE_11022020_5-369.wiff
14	G1519MS-FS(3)		11/2/2020 7:29:39 PM	5-369.dam	AE_11022020_5-369.wiff
15	G1520MSD-FS(3)		11/2/2020 7:40:07 PM	5-369.dam	AE_11022020_5-369.wiff
16	G1521-FS(3)		11/2/2020 7:50:35 PM	5-369.dam	AE_11022020_5-369.wiff
17	G1522-FS(3)		11/2/2020 8:01:03 PM	5-369.dam	AE_11022020_5-369.wiff
18	G1523-FS(3)		11/2/2020 8:11:31 PM	5-369.dam	AE_11022020_5-369.wiff
19	LD76 CCV	CCV	11/2/2020 8:22:00 PM	5-369.dam	AE_11022020_5-369.wiff
20	MeOH		11/2/2020 8:32:28 PM	5-369.dam	AE_11022020_5-369.wiff
21	DA889PB-FS(3)		11/2/2020 8:42:56 PM	5-369.dam	AE_11022020_5-369.wiff
22	DA890LCS-FS(3)		11/2/2020 8:53:24 PM	5-369.dam	AE_11022020_5-369.wiff
23	G1648-FS(3)		11/2/2020 9:03:52 PM	5-369.dam	AE_11022020_5-369.wiff
24	G1649MS-FS(3)		11/2/2020 9:14:20 PM	5-369.dam	AE_11022020_5-369.wiff
25	G1650MSD-FS(3)		11/2/2020 9:24:48 PM	5-369.dam	AE_11022020_5-369.wiff
26	G1653-FS(3)		11/2/2020 9:35:16 PM	5-369.dam	AE_11022020_5-369.wiff
27	G1659-FS(3)		11/2/2020 9:45:44 PM	5-369.dam	AE_11022020_5-369.wiff
28	G1660-FS(3)		11/2/2020 9:56:12 PM	5-369.dam	AE_11022020_5-369.wiff
29	G1662-FS(3)		11/2/2020 10:06:40 PM	5-369.dam	AE_11022020_5-369.wiff

1. Samples from another batch, not reported with this one. DMS 11/4/2020



Sequence Report

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Printed: 04/11/2020 5:24:33 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
30	LD77 CCV	CCV	11/2/2020 10:17:09 PM	5-369.dam	AE_11022020_5-369.wiff
31	MeOH		11/2/2020 10:27:36 PM	5-369.dam	AE_11022020_5-369.wiff
1	DA891PB-FS(0)	Procedural Blank	11/2/2020 10:38:04 PM	5-369.dam	AE_11022020_5-369.wiff
2	DA892LCS-FS(0)	Laboratory Control Sample	11/2/2020 10:48:33 PM	5-369.dam	AE_11022020_5-369.wiff
3	G1651-FS(0)	CBD-AOA-SW02-1020	11/2/2020 10:59:02 PM	5-369.dam	AE_11022020_5-369.wiff
4	G1652-FS(0)	CBD-AOA-SW02P-1020	11/2/2020 11:09:30 PM	5-369.dam	AE_11022020_5-369.wiff
5	G1654-FS(0)	CBD-AOA-SW01-1020	11/2/2020 11:19:58 PM	5-369.dam	AE_11022020_5-369.wiff
6	G1655-FS(0)	CBD-AOA-FB03-101320	11/2/2020 11:30:25 PM	5-369.dam	AE_11022020_5-369.wiff
7	G1656-FS(0)	CBD-AOA-EB01-101320-SW	11/2/2020 11:40:54 PM	5-369.dam	AE_11022020_5-369.wiff
8	G1657-FS(0)	CBD-AOA-EB01-101320-SD	11/2/2020 11:51:22 PM	5-369.dam	AE_11022020_5-369.wiff
9	MeOH		11/3/2020 12:01:50 AM	5-369.dam	AE_11022020_5-369.wiff
10	LD76 CCV	CCV	11/3/2020 12:12:18 AM	5-369.dam	AE_11022020_5-369.wiff
11	G1644-FS(0)	CBD-AOA-SW07-1020	11/3/2020 12:22:46 AM	5-369.dam	AE_11022020_5-369.wiff
12	G1644-FS-D(3)	CBD-AOA-SW07-1020	11/3/2020 12:33:14 AM	5-369.dam	AE_11022020_5-369.wiff
13	G1644-FS-D(5)	CBD-AOA-SW07-1020	11/3/2020 12:43:42 AM	5-369.dam	AE_11022020_5-369.wiff
14	G1645-FS(0)	CBD-AOA-SW05-1020	11/3/2020 12:54:10 AM	5-369.dam	AE_11022020_5-369.wiff
15	G1645-FS-D(3)	CBD-AOA-SW05-1020	11/3/2020 1:04:40 AM	5-369.dam	AE_11022020_5-369.wiff
16	G1645-FS-D(5)	CBD-AOA-SW05-1020	11/3/2020 1:15:09 AM	5-369.dam	AE_11022020_5-369.wiff
17	G1646-FS(0)	CBD-AOA-SW03-1020	11/3/2020 1:25:37 AM	5-369.dam	AE_11022020_5-369.wiff
18	G1646-FS-D(3)	CBD-AOA-SW03-1020	11/3/2020 1:36:05 AM	5-369.dam	AE_11022020_5-369.wiff
19	MeOH		11/3/2020 1:46:33 AM	5-369.dam	AE_11022020_5-369.wiff
20	LD77 CCV	CCV	11/3/2020 1:57:01 AM	5-369.dam	AE_11022020_5-369.wiff
21	G1647-FS(0)	CBD-AOA-SW04-1020	11/3/2020 2:07:29 AM	5-369.dam	AE_11022020_5-369.wiff
22	G1647-FS-D(3)	CBD-AOA-SW04-1020	11/3/2020 2:17:58 AM	5-369.dam	AE_11022020_5-369.wiff
23	G1658-FS(0)	CBD-AOA-SW08-1020	11/3/2020 2:28:28 AM	5-369.dam	AE_11022020_5-369.wiff
24	G1658-FS-D(3)	CBD-AOA-SW08-1020	11/3/2020 2:38:58 AM	5-369.dam	AE_11022020_5-369.wiff
25	G1658-FS-D(5)	CBD-AOA-SW08-1020	11/3/2020 2:49:28 AM	5-369.dam	AE_11022020_5-369.wiff
26	G1658-FS-D(7)	CBD-AOA-SW08-1020	11/3/2020 2:59:56 AM	5-369.dam	AE_11022020_5-369.wiff
27	G1668-FS(0)	CBD-AOA-SW09-1020	11/3/2020 3:10:24 AM	5-369.dam	AE_11022020_5-369.wiff
28	G1668-FS-D(3)	CBD-AOA-SW09-1020	11/3/2020 3:20:52 AM	5-369.dam	AE_11022020_5-369.wiff
29	G1668-FS-D(5)	CBD-AOA-SW09-1020	11/3/2020 3:31:20 AM	5-369.dam	AE_11022020_5-369.wiff
30	MeOH		11/3/2020 3:41:49 AM	5-369.dam	AE_11022020_5-369.wiff
31	LD76 CCV	CCV	11/3/2020 3:52:16 AM	5-369.dam	AE_11022020_5-369.wiff
32	G1661-FS(0)	CBD-AOA-SW06-1020	11/3/2020 4:02:44 AM	5-369.dam	AE_11022020_5-369.wiff
33	G1661-FS-D(3)	CBD-AOA-SW06-1020	11/3/2020 4:13:11 AM	5-369.dam	AE_11022020_5-369.wiff
34	G1661-FS-D(5)	CBD-AOA-SW06-1020	11/3/2020 4:23:40 AM	5-369.dam	AE_11022020_5-369.wiff
35	G1661-FS-D(7)	CBD-AOA-SW06-1020	11/3/2020 4:34:08 AM	5-369.dam	AE_11022020_5-369.wiff
36	G1663-FS(0)	CBD-AOA-SW11-1020	11/3/2020 4:44:38 AM	5-369.dam	AE_11022020_5-369.wiff
37	G1663-FS-D(3)	CBD-AOA-SW11-1020	11/3/2020 4:55:08 AM	5-369.dam	AE_11022020_5-369.wiff



Sequence Report

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Printed: 04/11/2020 5:24:33 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
38	G1663-FS-D(5)	CBD-AOA-SW11-1020	11/3/2020 5:05:38 AM	5-369.dam	AE_11022020_5-369.wiff
39	G1663-FS-D(7)	CBD-AOA-SW11-1020	11/3/2020 5:16:05 AM	5-369.dam	AE_11022020_5-369.wiff
40	MeOH		11/3/2020 5:26:33 AM	5-369.dam	AE_11022020_5-369.wiff
41	LD77 CCV	CCV	11/3/2020 5:37:00 AM	5-369.dam	AE_11022020_5-369.wiff
42	G1664-FS(0)	CBD-AOA-SW11P-1020	11/3/2020 5:47:28 AM	5-369.dam	AE_11022020_5-369.wiff
43	G1664-FS-D(3)	CBD-AOA-SW11P-1020	11/3/2020 5:57:57 AM	5-369.dam	AE_11022020_5-369.wiff
44	G1664-FS-D(5)	CBD-AOA-SW11P-1020	11/3/2020 6:08:26 AM	5-369.dam	AE_11022020_5-369.wiff
45	G1664-FS-D(7)	CBD-AOA-SW11P-1020	11/3/2020 6:18:56 AM	5-369.dam	AE_11022020_5-369.wiff
46	G1665-FS(0)	CBD-AOA-SW10-1020	11/3/2020 6:29:25 AM	5-369.dam	AE_11022020_5-369.wiff
47	G1665-FS-D(3)	CBD-AOA-SW10-1020	11/3/2020 6:39:53 AM	5-369.dam	AE_11022020_5-369.wiff
48	G1665-FS-D(5)	CBD-AOA-SW10-1020	11/3/2020 6:50:23 AM	5-369.dam	AE_11022020_5-369.wiff
49	G1665-FS-D(7)	CBD-AOA-SW10-1020	11/3/2020 7:00:53 AM	5-369.dam	AE_11022020_5-369.wiff
50	MeOH		11/3/2020 7:11:23 AM	5-369.dam	AE_11022020_5-369.wiff
51	LD76 CCV	CCV	11/3/2020 7:22:06 AM	5-369.dam	AE_11022020_5-369.wiff
52	G1666MS-FS(0)	CBD-AOA-SW10-1020-MS	11/3/2020 7:32:35 AM	5-369.dam	AE_11022020_5-369.wiff
53	G1666MS-FS-D(3)	CBD-AOA-SW10-1020-MS	11/3/2020 7:43:04 AM	5-369.dam	AE_11022020_5-369.wiff
54	G1666MS-FS-D(5)	CBD-AOA-SW10-1020-MS	11/3/2020 7:53:32 AM	5-369.dam	AE_11022020_5-369.wiff
1	G1666MS-FS-D(7)	CBD-AOA-SW10-1020-MS	11/3/2020 8:04:01 AM	5-369.dam	AE_11022020_5-369.wiff
2	G1667MSD-FS(0)	CBD-AOA-SW10-1020-SD	11/3/2020 8:14:30 AM	5-369.dam	AE_11022020_5-369.wiff
3	G1667MSD-FS-D(3)	CBD-AOA-SW10-1020-SD	11/3/2020 8:24:58 AM	5-369.dam	AE_11022020_5-369.wiff
4	G1667MSD-FS-D(5)	CBD-AOA-SW10-1020-SD	11/3/2020 8:35:27 AM	5-369.dam	AE_11022020_5-369.wiff
5	G1667MSD-FS-D(7)	CBD-AOA-SW10-1020-SD	11/3/2020 8:45:56 AM	5-369.dam	AE_11022020_5-369.wiff
6	MeOH		11/3/2020 8:56:24 AM	5-369.dam	AE_11022020_5-369.wiff
7	LD77 CCV	CCV	11/3/2020 9:06:53 AM	5-369.dam	AE_11022020_5-369.wiff

1. Dilution made and run but not needed. DMS 11/4/2020



Sequence Report

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Printed: 04/11/2020 5:19:04 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
2	LD76 CCV	CCV	11/3/2020 6:17:43 PM	5-369.dam	AE_11032020_5-369.wiff
3	LD79	L6	11/3/2020 6:28:11 PM	5-369.dam	AE_11032020_5-369.wiff
4	LD80 IB	Instrument Blank	11/3/2020 6:38:38 PM	5-369.dam	AE_11032020_5-369.wiff
5	MeOH		11/3/2020 6:49:06 PM	5-369.dam	AE_11032020_5-369.wiff
6	G1644-FS(0)	CBD-AOA-SW07-1020	11/3/2020 6:59:33 PM	5-369.dam	AE_11032020_5-369.wiff
7	G1645-FS(0)	CBD-AOA-SW05-1020	11/3/2020 7:10:00 PM	5-369.dam	AE_11032020_5-369.wiff
8	G1645-FS-D(7)	CBD-AOA-SW05-1020	11/3/2020 7:20:27 PM	5-369.dam	AE_11032020_5-369.wiff
9	G1646-FS(0)	CBD-AOA-SW03-1020	11/3/2020 7:30:54 PM	5-369.dam	AE_11032020_5-369.wiff
10	G1647-FS(0)	CBD-AOA-SW04-1020	11/3/2020 7:41:21 PM	5-369.dam	AE_11032020_5-369.wiff
11	MeOH		11/3/2020 7:51:49 PM	5-369.dam	AE_11032020_5-369.wiff
12	LD77 CCV	CCV	11/3/2020 8:02:17 PM	5-369.dam	AE_11032020_5-369.wiff
13	G1651-FS(0)	CBD-AOA-SW02-1020	11/3/2020 8:12:44 PM	5-369.dam	AE_11032020_5-369.wiff
14	G1652-FS(0)	CBD-AOA-SW02P-1020	11/3/2020 8:23:12 PM	5-369.dam	AE_11032020_5-369.wiff
15	G1654-FS(0)	CBD-AOA-SW01-1020	11/3/2020 8:33:40 PM	5-369.dam	AE_11032020_5-369.wiff
16	G1661-FS(0)	CBD-AOA-SW06-1020	11/3/2020 8:44:08 PM	5-369.dam	AE_11032020_5-369.wiff
17	G1663-FS(0)	CBD-AOA-SW11-1020	11/3/2020 8:54:35 PM	5-369.dam	AE_11032020_5-369.wiff
18	G1663-FS-D(9)	CBD-AOA-SW11-1020	11/3/2020 9:05:03 PM	5-369.dam	AE_11032020_5-369.wiff
19	G1664-FS(0)	CBD-AOA-SW11P-1020	11/3/2020 9:15:31 PM	5-369.dam	AE_11032020_5-369.wiff
20	G1665-FS-D(9)	CBD-AOA-SW11P-1020	11/3/2020 9:26:00 PM	5-369.dam	AE_11032020_5-369.wiff
21	G1666MS-FS(0)	CBD-AOA-SW10-1020-MS	11/3/2020 9:36:28 PM	5-369.dam	AE_11032020_5-369.wiff
22	MeOH		11/3/2020 9:46:56 PM	5-369.dam	AE_11032020_5-369.wiff
23	LD76 CCV	CCV	11/3/2020 9:57:25 PM	5-369.dam	AE_11032020_5-369.wiff
24	G1666MS-FS-D(9)	CBD-AOA-SW10-1020-MS	11/3/2020 10:07:53 PM	5-369.dam	AE_11032020_5-369.wiff
25	G1667MSD-FS(0)	CBD-AOA-SW10-1020-SD	11/3/2020 10:18:21 PM	5-369.dam	AE_11032020_5-369.wiff
26	G1667MSD-FS-D(9)	CBD-AOA-SW10-1020-SD	11/3/2020 10:28:49 PM	5-369.dam	AE_11032020_5-369.wiff
27	G1668-FS(0)	CBD-AOA-SW09-1020	11/3/2020 10:39:17 PM	5-369.dam	AE_11032020_5-369.wiff
28	G1668-FS-D(7)	CBD-AOA-SW09-1020	11/3/2020 10:49:45 PM	5-369.dam	AE_11032020_5-369.wiff
29	MeOH		11/3/2020 11:00:13 PM	5-369.dam	AE_11032020_5-369.wiff
30	LD77 CCV	CCV	11/3/2020 11:10:40 PM	5-369.dam	AE_11032020_5-369.wiff

1. Samples run for confirmation only. DMS 11/4/2020



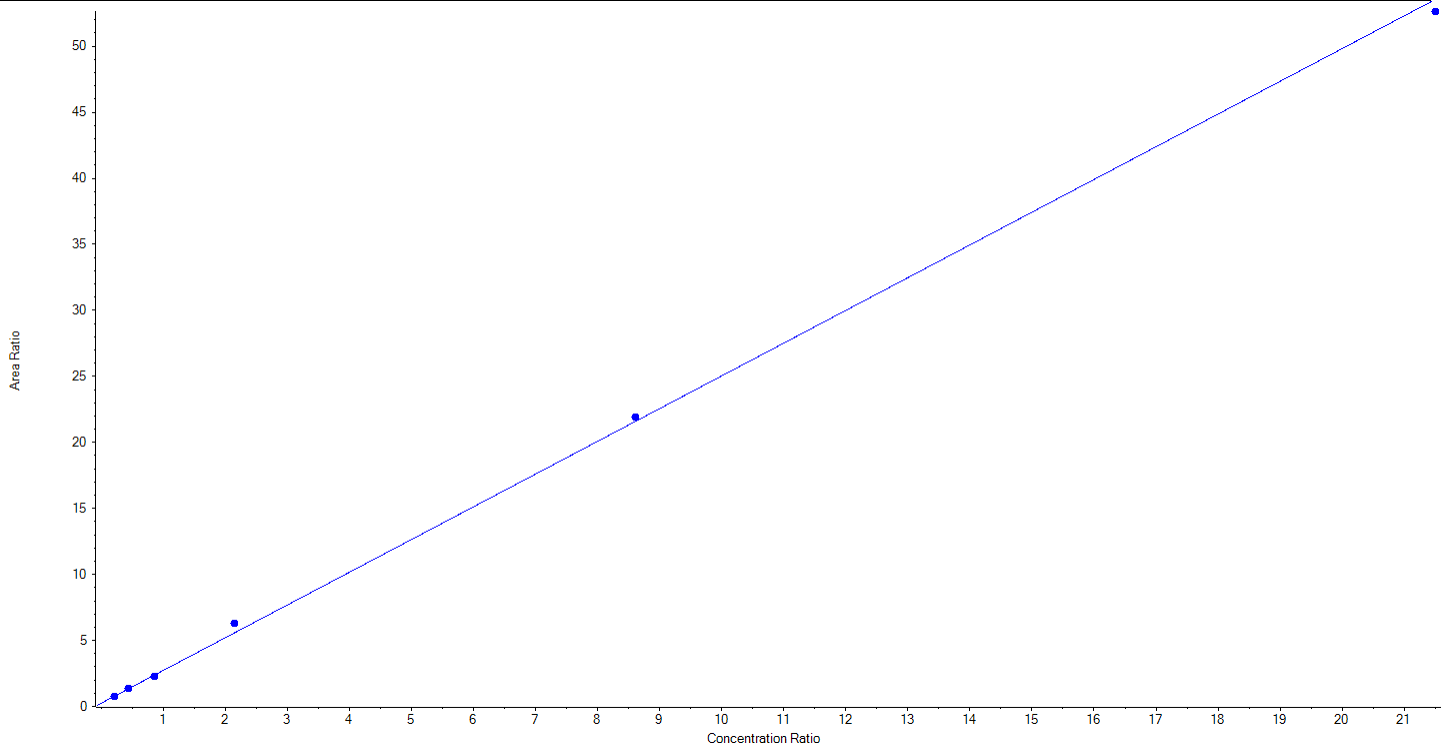
Calibration Summary Report

Created with Analyst Reporter
Printed: 05/11/2020 1:22:13 PM

Analyte Name	PFBS_1	Data File	AE_10292020_5-369.wiff
MRM Transition	298.9 / 80.0	Result Table	20-1298
Internal Standard	13C3-PFBS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 2.47805x + 0.26034$ ($r = 0.99917$) (weighting: $1/x$) $r^2: 0.9983$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	222.12	88.9
3	LD75	L2	True	500.00	513.64	102.7
4	LD76	L3	True	1000.00	956.22	95.6
5	LD77	L4	True	2500.00	2820.80	112.8
6	LD78	L5	True	10000.00	10170.48	101.7
7	LD79	L6	True	25000.00	24566.75	98.3





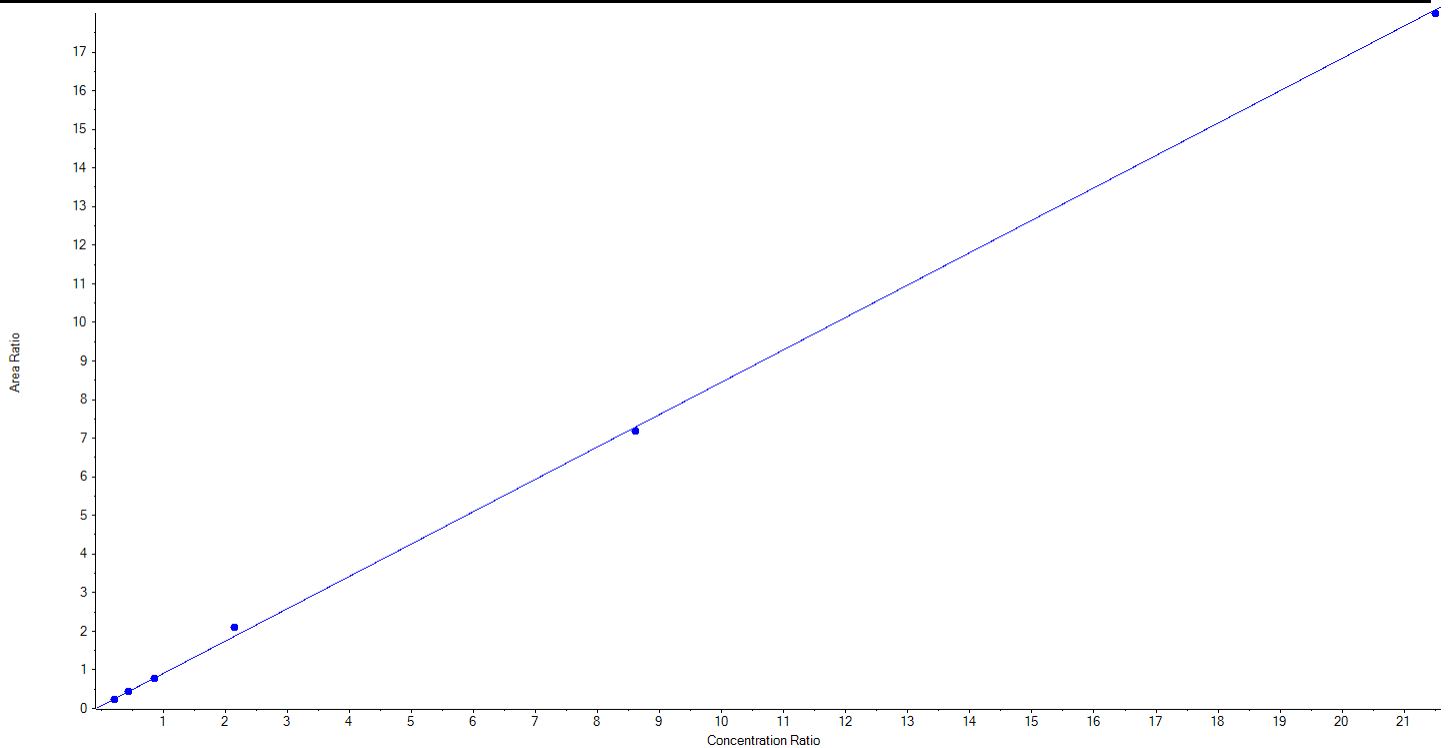
Calibration Summary Report

Created with Analyst Reporter
Printed: 05/11/2020 1:22:13 PM

Analyte Name	PFBS_2	Data File	AE_10292020_5-369.wiff
MRM Transition	298.9 / 99.0	Result Table	20-1298
Internal Standard	13C3-PFBS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.83834 x + 0.07137$ ($r = 0.99930$) (weighting: $1/x$) $r^2: 0.9986$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	218.51	87.4
3	LD75	L2	True	500.00	519.81	104.0
4	LD76	L3	True	1000.00	979.50	98.0
5	LD77	L4	True	2500.00	2817.55	112.7
6	LD78	L5	True	10000.00	9853.95	98.5
7	LD79	L6	True	25000.00	24860.68	99.4





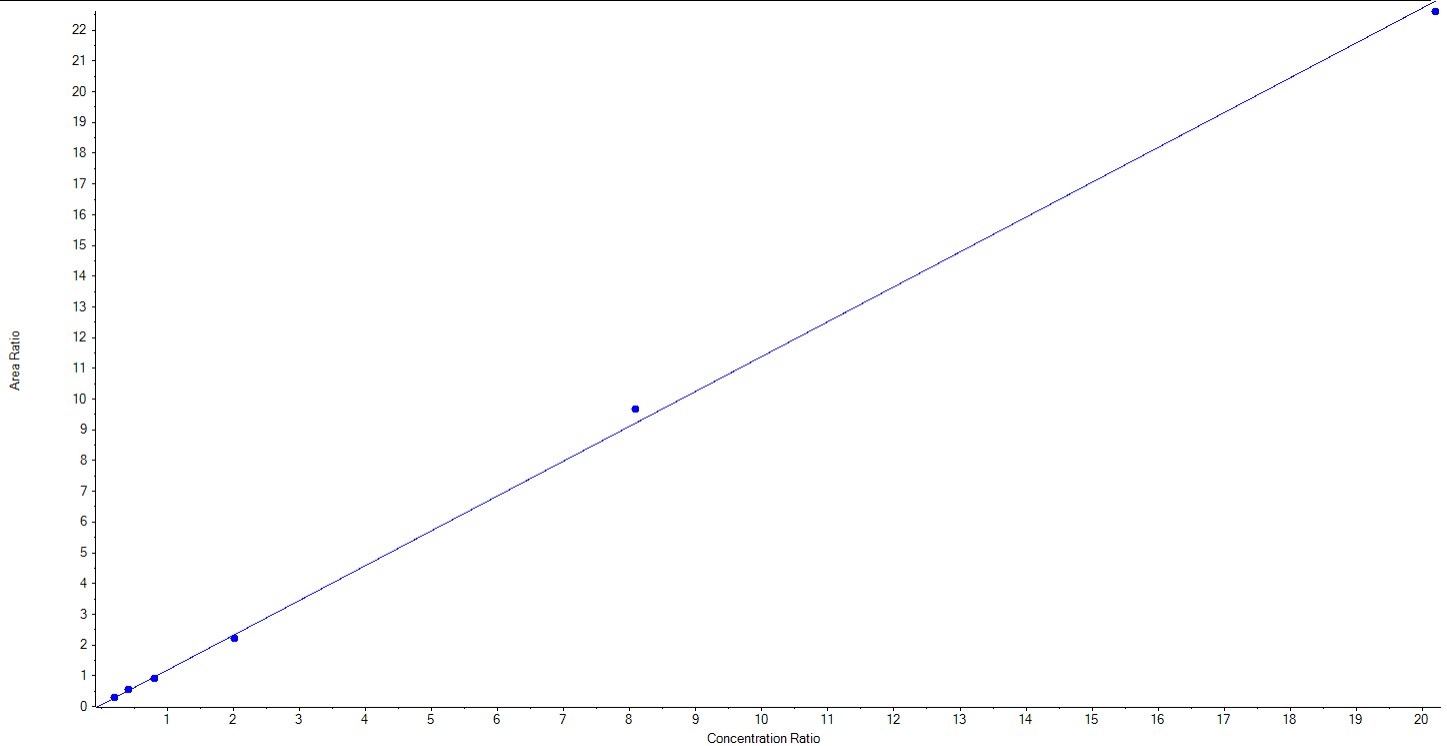
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Analyte Name	PFHxA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	313.0 / 269.0	Result Table	20-1298
Internal Standard	13C5-PFHxA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.13340x + 0.05269$ ($r = 0.99936$) (weighting: $1/x$) $r^2: 0.9987$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	252.50	249.58	98.8
3	LD75	L2	True	505.00	544.87	107.9
4	LD76	L3	True	1010.00	956.98	94.8
5	LD77	L4	True	2525.00	2395.08	94.9
6	LD78	L5	True	10100.00	10618.29	105.1
7	LD79	L6	True	25250.00	24877.70	98.5





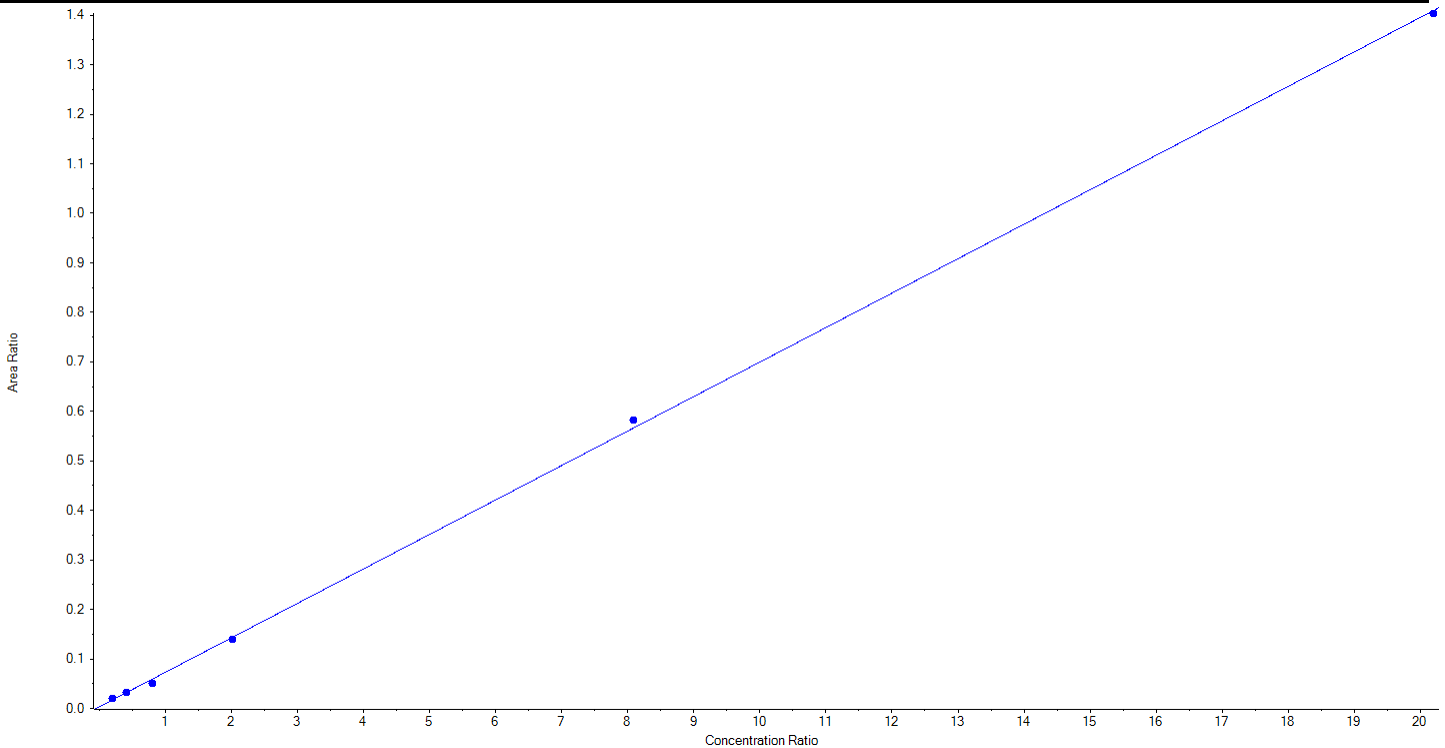
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Analyte Name	PFHxA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	313.0 / 119.0	Result Table	20-1298
Internal Standard	13C5-PFHxA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.06959x + 0.00361$ ($r = 0.99934$) (weighting: $1/x$) $r^2: 0.9987$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	252.50	284.08	112.5
3	LD75	L2	True	505.00	530.31	105.0
4	LD76	L3	True	1010.00	840.07	83.2
5	LD77	L4	True	2525.00	2442.45	96.7
6	LD78	L5	True	10100.00	10403.43	103.0
7	LD79	L6	True	25250.00	25142.16	99.6





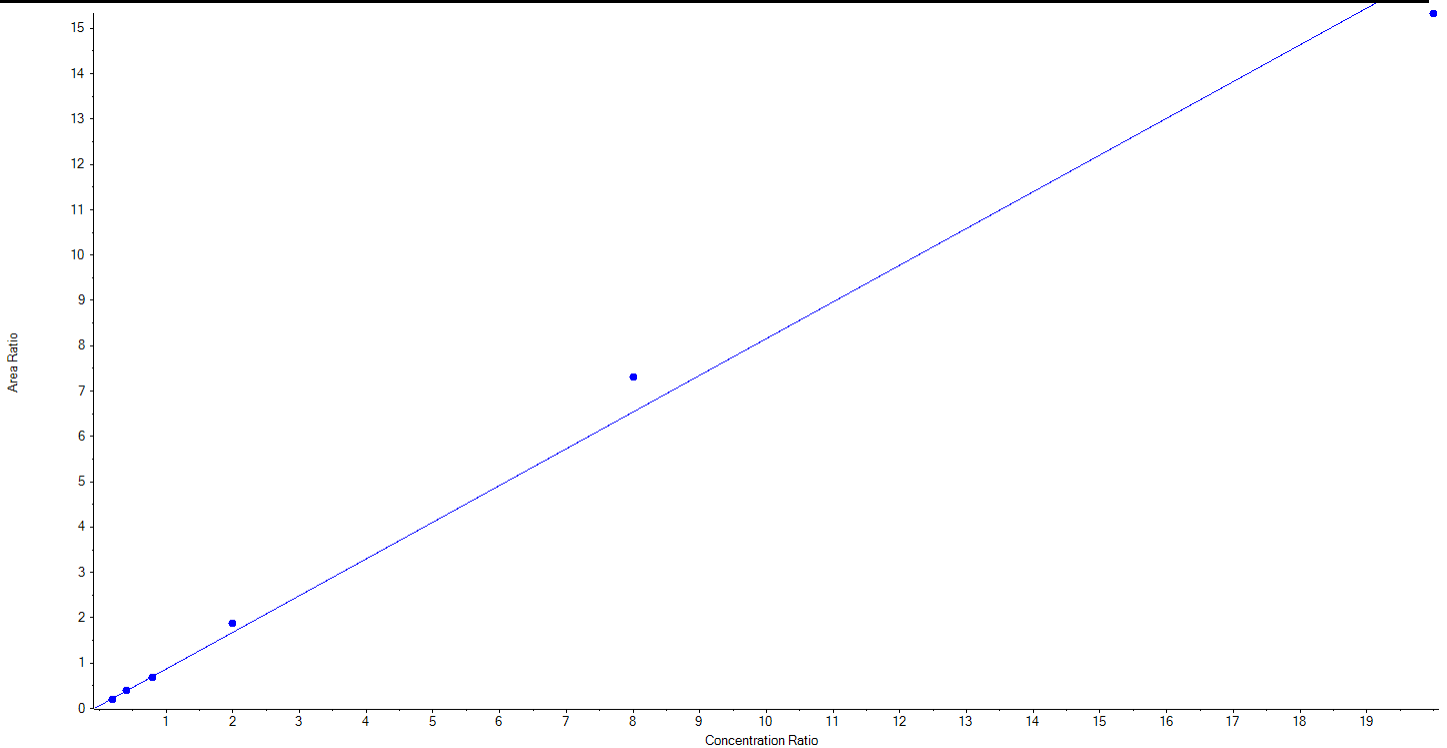
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Analyte Name	PFHpA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	363.0 / 319.0	Result Table	20-1298
Internal Standard	13C4-PFHpA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.80980x + 0.06001$ ($r = 0.99607$) (weighting: $1/x$) $r^2: 0.9922$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	206.84	82.7
3	LD75	L2	True	500.00	514.89	103.0
4	LD76	L3	True	1000.00	959.57	96.0
5	LD77	L4	True	2500.00	2801.13	112.1
6	LD78	L5	True	10000.00	11202.55	112.0
7	LD79	L6	True	25000.00	23565.03	94.3





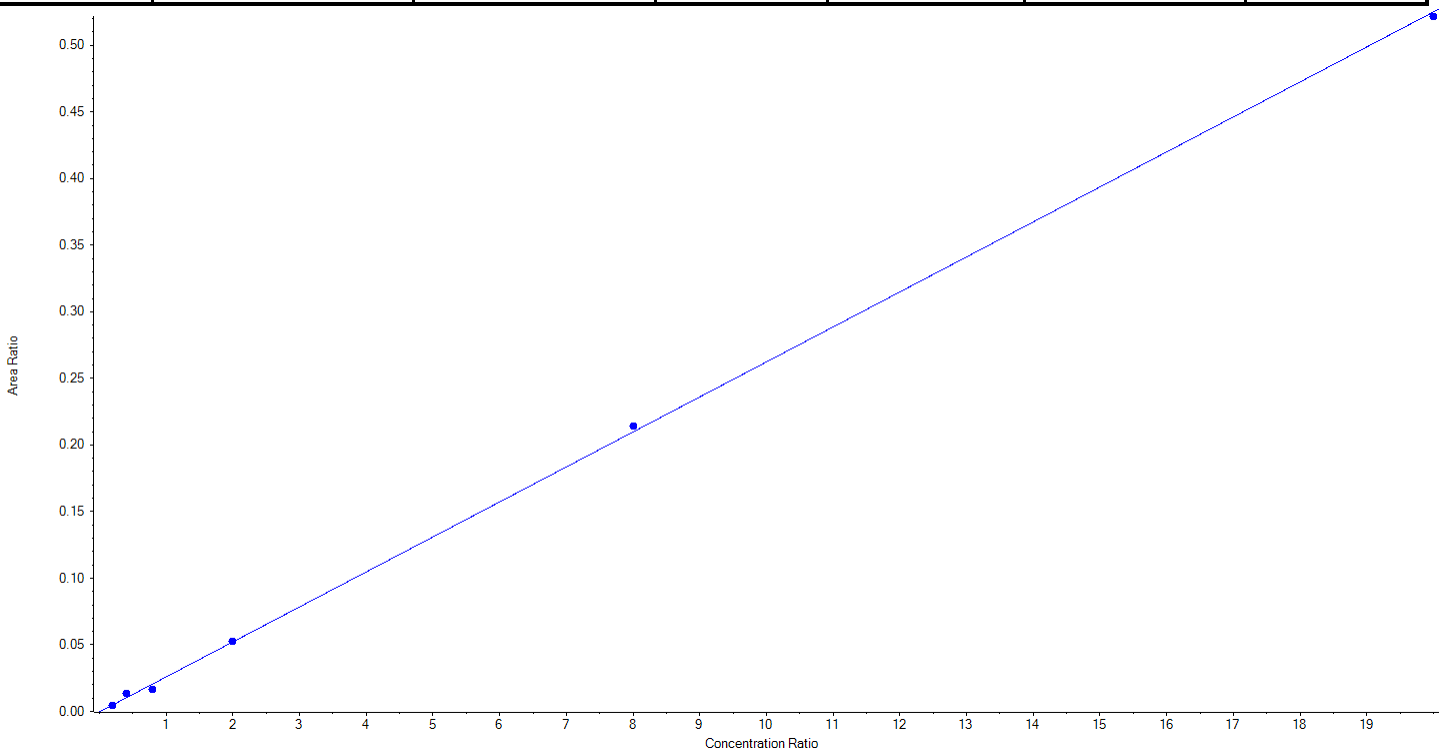
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Analyte Name	PFHpA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	363.0 / 169.0	Result Table	20-1298
Internal Standard	13C4-PFHpA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.02627x + -3.27945e-4$ ($r = 0.99868$) (weighting: $1/x$) $r^2: 0.9974$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	218.50	87.4
3	LD75	L2	True	500.00	647.07	129.4
4	LD76	L3	True	1000.00	804.40	80.4
5	LD77	L4	True	2500.00	2531.81	101.3
6	LD78	L5	True	10000.00	10213.21	102.1
7	LD79	L6	True	25000.00	24835.00	99.3





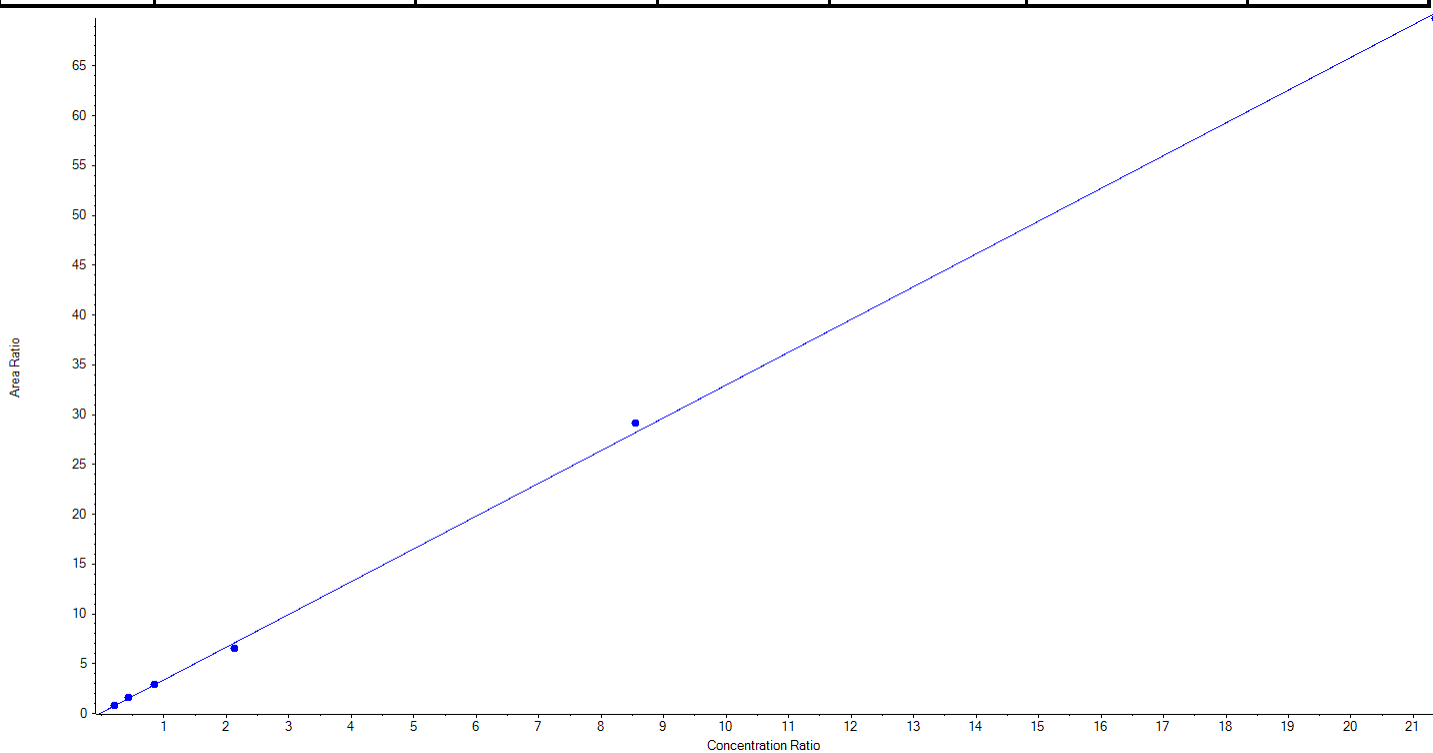
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Analyte Name	PFHxS_1	Data File	AE_10292020_5-369.wiff
MRM Transition	399.0 / 80.0	Result Table	20-1298
Internal Standard	13C3-PFHxS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 3.28867 x + 0.08472$ (r = 0.99952) (weighting: 1 / x) $r^2:0.9990$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	252.50	245.70	97.3
3	LD75	L2	True	505.00	541.32	107.2
4	LD76	L3	True	1010.00	1016.69	100.7
5	LD77	L4	True	2525.00	2323.62	92.0
6	LD78	L5	True	10100.00	10463.86	103.6
7	LD79	L6	True	25250.00	25051.32	99.2





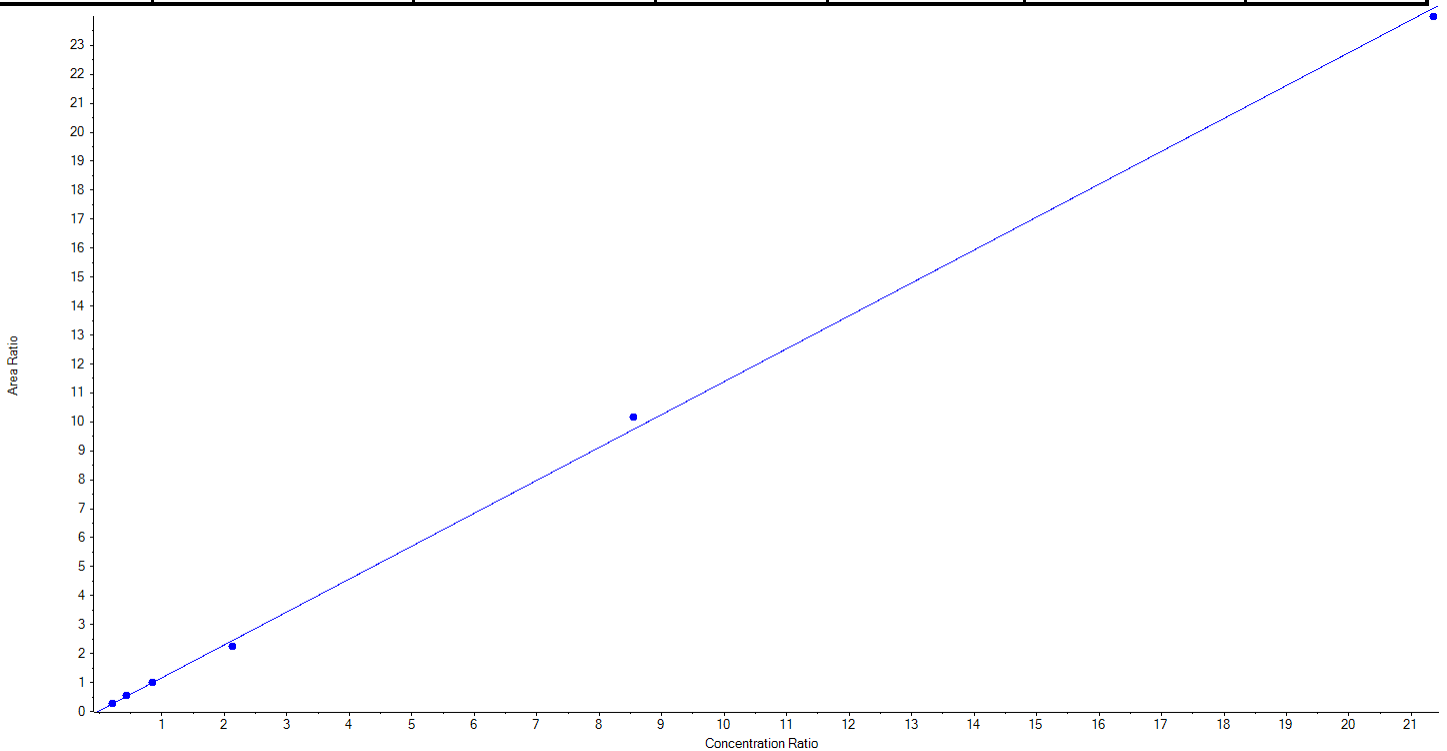
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Analyte Name	PFHxS_2	Data File	AE_10292020_5-369.wiff
MRM Transition	399.0 / 99.0	Result Table	20-1298
Internal Standard	13C3-PFHxS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.13607 x + 0.02816$ ($r = 0.99936$) (weighting: $1/x$) $r^2: 0.9987$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	252.50	243.31	96.4
3	LD75	L2	True	505.00	539.50	106.8
4	LD76	L3	True	1010.00	1024.34	101.4
5	LD77	L4	True	2525.00	2322.33	92.0
6	LD78	L5	True	10100.00	10565.89	104.6
7	LD79	L6	True	25250.00	24947.12	98.8





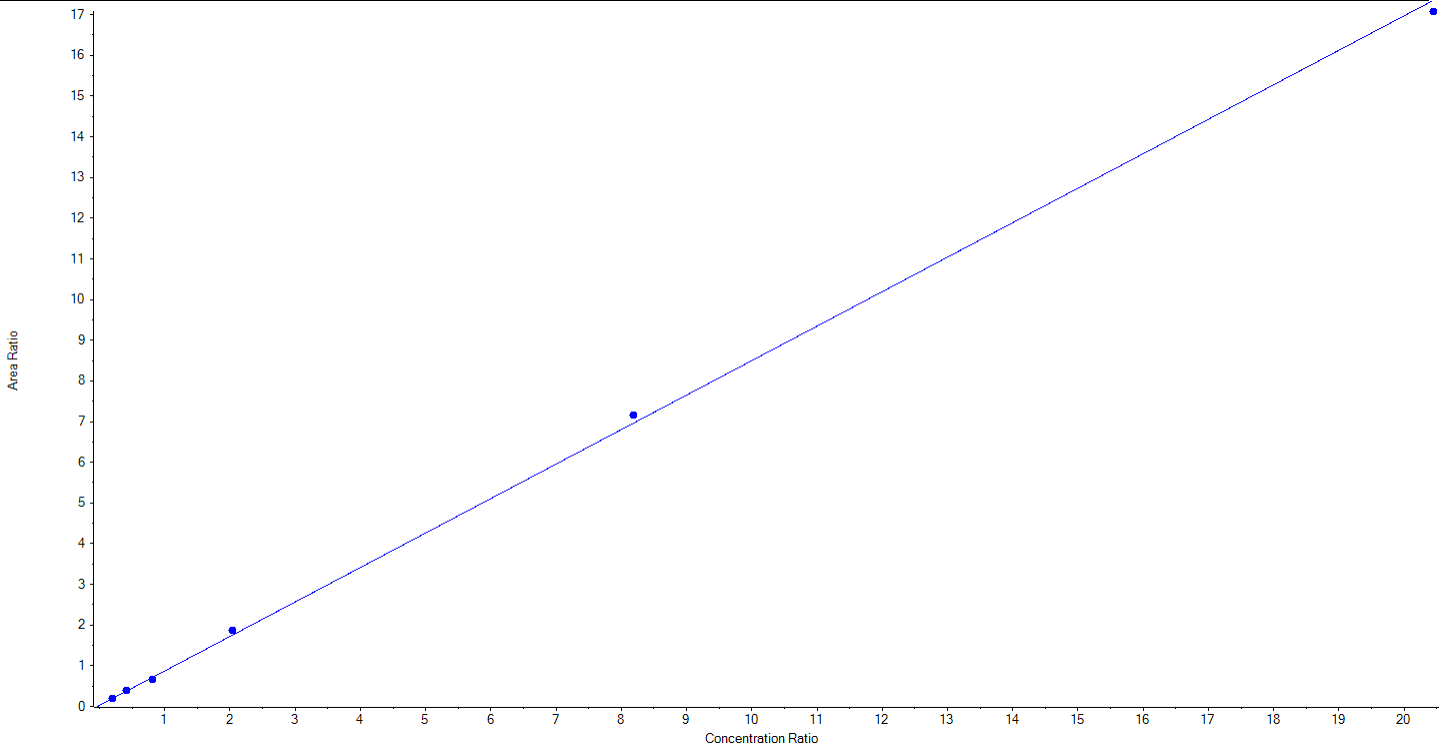
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Analyte Name	PFOA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	413.0 / 369.0	Result Table	20-1298
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.84726x + 0.02621$ ($r = 0.99949$) (weighting: $1/x$) $r^2: 0.9990$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	233.76	93.5
3	LD75	L2	True	500.00	533.30	106.7
4	LD76	L3	True	1000.00	920.40	92.0
5	LD77	L4	True	2500.00	2659.25	106.4
6	LD78	L5	True	10000.00	10302.18	103.0
7	LD79	L6	True	25000.00	24601.11	98.4





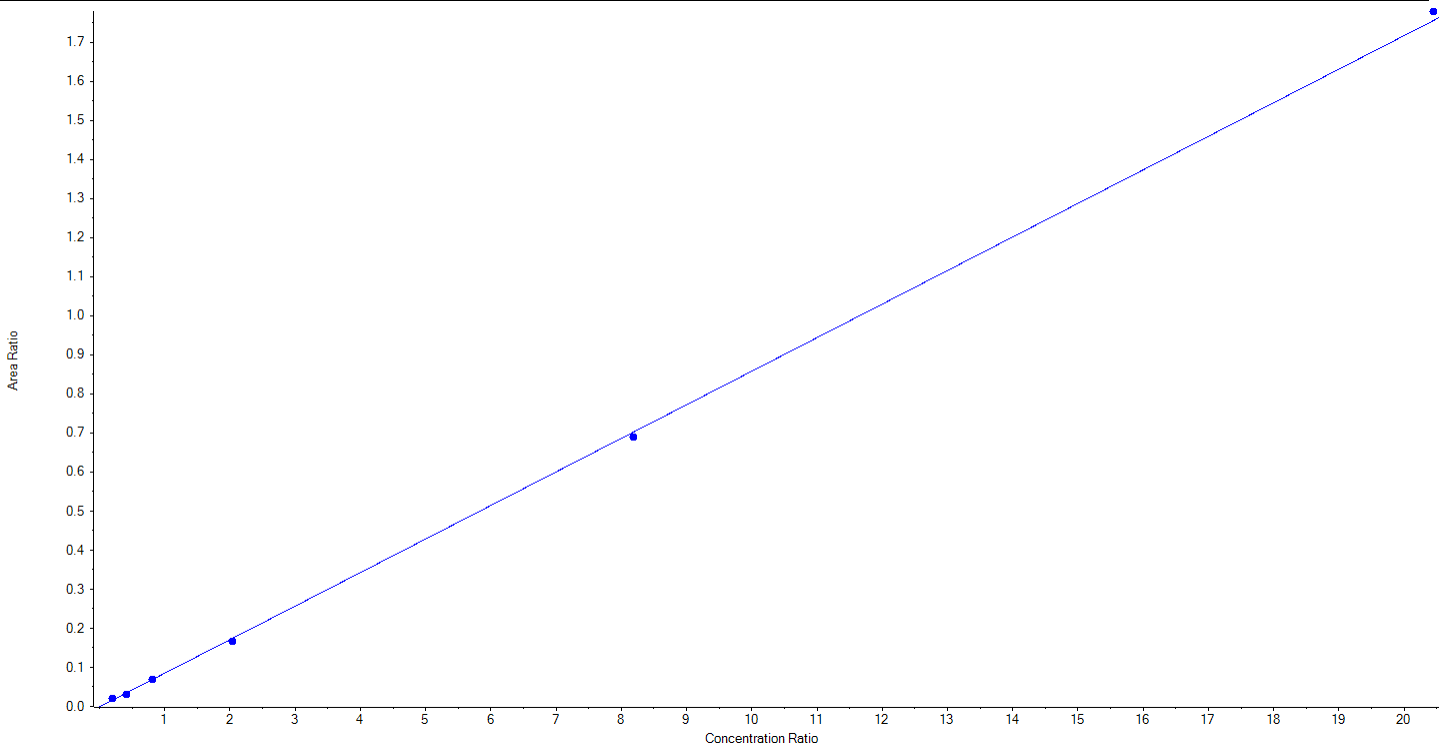
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Analyte Name	PFOA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	413.0 / 169.0	Result Table	20-1298
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.08589x + -7.97627e-4$ ($r = 0.99965$) (weighting: $1/x$) $r^2: 0.9993$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	290.04	116.0
3	LD75	L2	True	500.00	458.41	91.7
4	LD76	L3	True	1000.00	978.57	97.9
5	LD77	L4	True	2500.00	2372.58	94.9
6	LD78	L5	True	10000.00	9823.33	98.2
7	LD79	L6	True	25000.00	25327.07	101.3





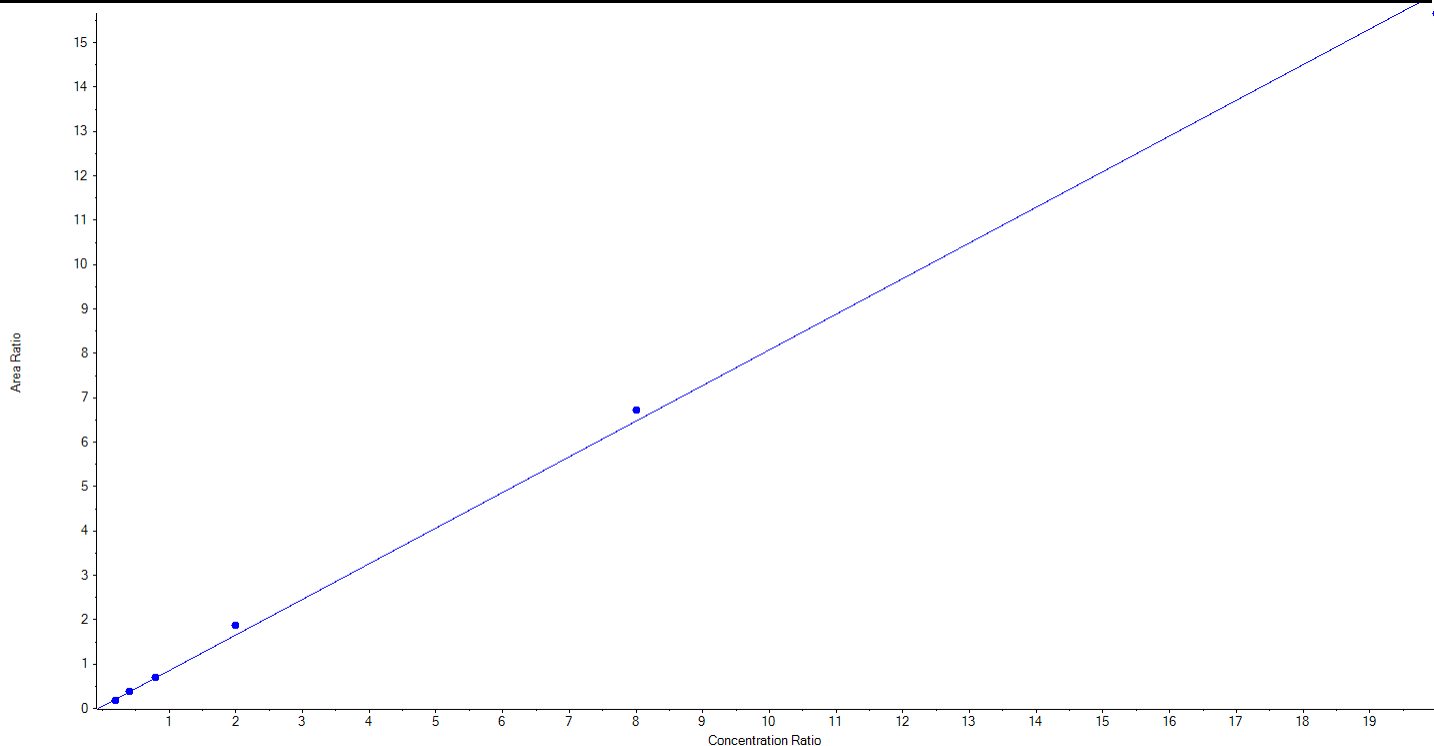
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Analyte Name	PFNA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	463.0 / 419.0	Result Table	20-1298
Internal Standard	13C9-PFNA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.80296x + 0.04971$ ($r = 0.99873$) (weighting: $1/x$) $r^2: 0.9975$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	199.93	80.0
3	LD75	L2	True	500.00	519.67	103.9
4	LD76	L3	True	1000.00	1021.39	102.1
5	LD77	L4	True	2500.00	2820.84	112.8
6	LD78	L5	True	10000.00	10395.03	104.0
7	LD79	L6	True	25000.00	24293.15	97.2





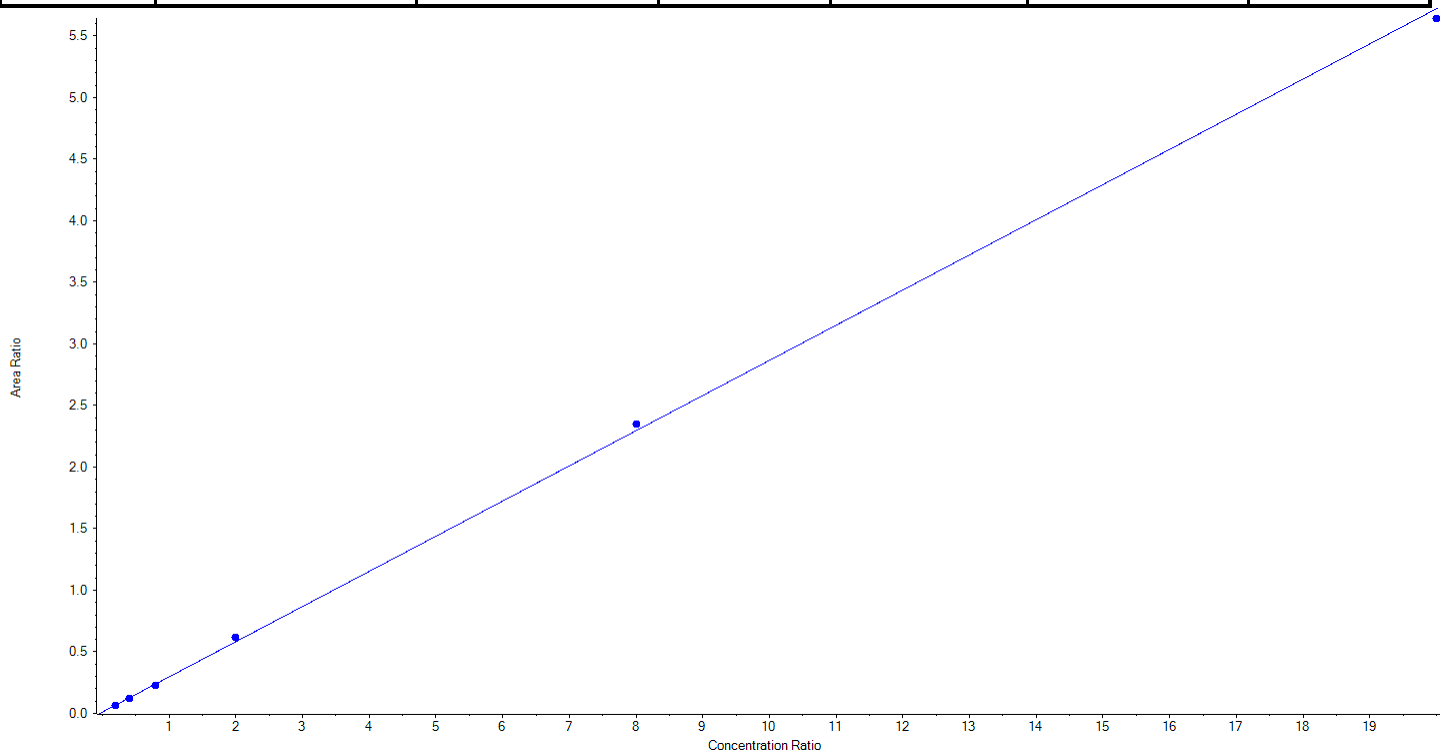
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Analyte Name	PFNA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	463.0 / 219.0	Result Table	20-1298
Internal Standard	13C9-PFNA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.28546x + 0.01201$ ($r = 0.99961$) (weighting: $1/x$) $r^2: 0.9992$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	247.65	99.1
3	LD75	L2	True	500.00	498.61	99.7
4	LD76	L3	True	1000.00	934.37	93.4
5	LD77	L4	True	2500.00	2666.48	106.7
6	LD78	L5	True	10000.00	10252.16	102.5
7	LD79	L6	True	25000.00	24650.74	98.6





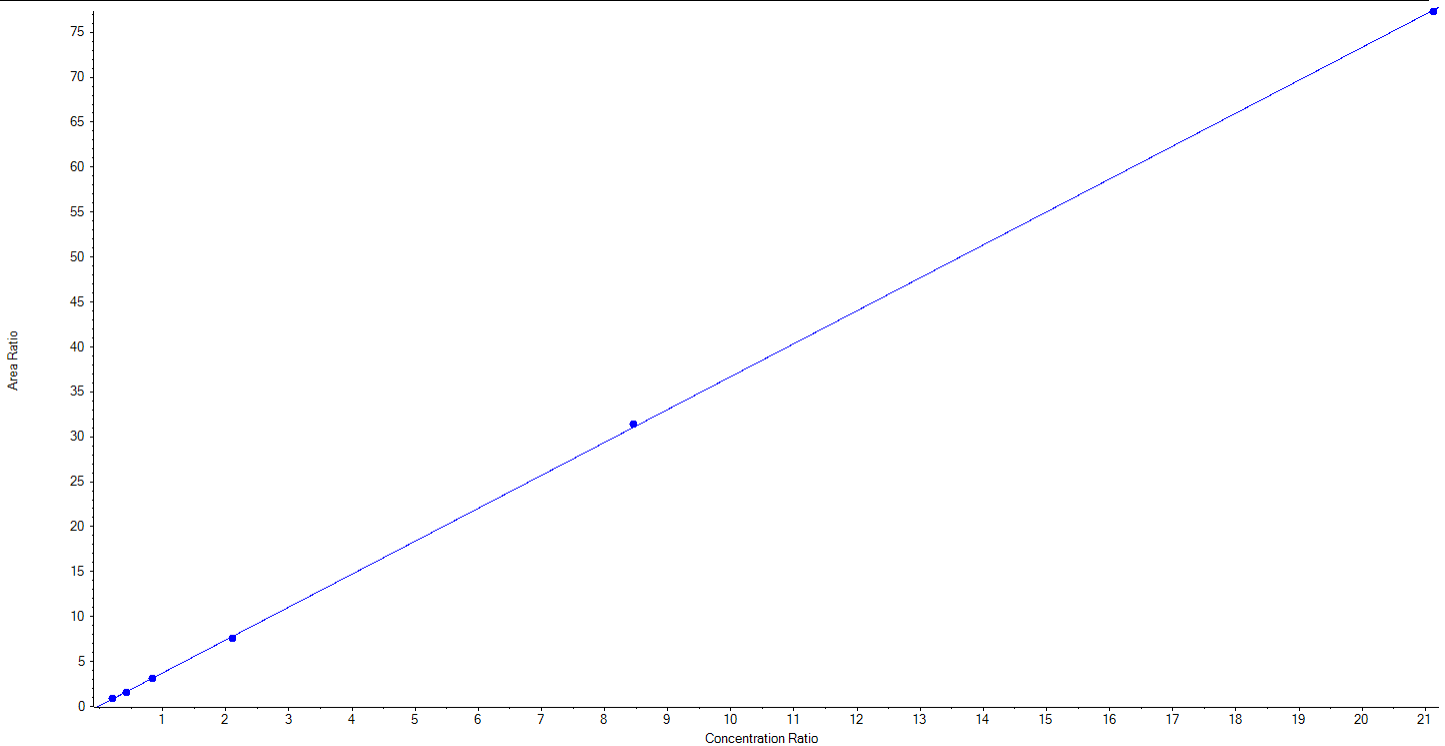
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Analyte Name	PFOS_1	Data File	AE_10292020_5-369.wiff
MRM Transition	499.0 / 80.0	Result Table	20-1298
Internal Standard	13C8-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 3.66302x + 0.06750$ ($r = 0.99992$) (weighting: $1/x$) $r^2: 0.9998$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	252.50	263.38	104.3
3	LD75	L2	True	505.00	504.46	99.9
4	LD76	L3	True	1010.00	986.01	97.6
5	LD77	L4	True	2525.00	2448.41	97.0
6	LD78	L5	True	10100.00	10242.62	101.4
7	LD79	L6	True	25250.00	25197.60	99.8





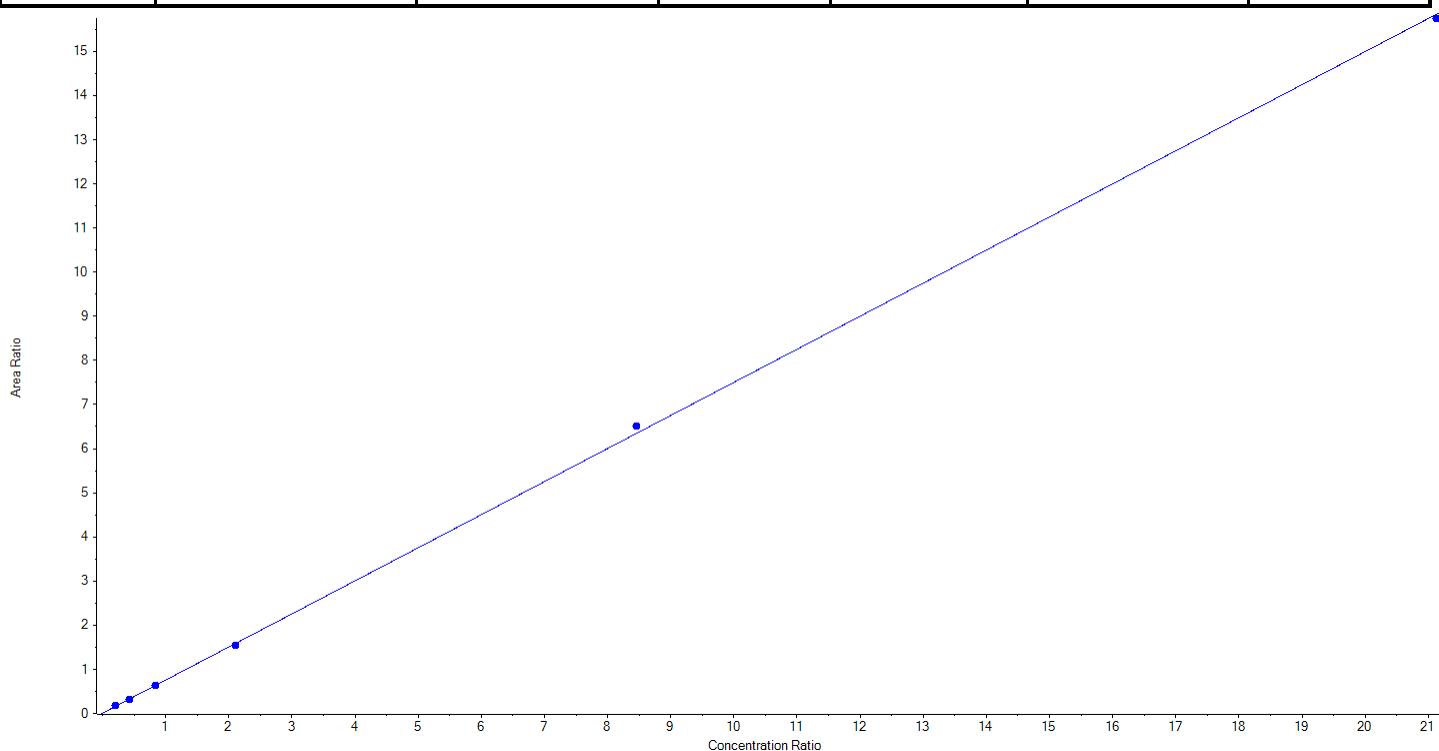
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Analyte Name	PFOS_2	Data File	AE_10292020_5-369.wiff
MRM Transition	499.0 / 99.0	Result Table	20-1298
Internal Standard	13C8-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.74936x + 0.00732$ ($r = 0.99980$) (weighting: $1/x$) $r^2: 0.9996$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	252.50	271.26	107.4
3	LD75	L2	True	505.00	485.65	96.2
4	LD76	L3	True	1010.00	990.36	98.1
5	LD77	L4	True	2525.00	2431.43	96.3
6	LD78	L5	True	10100.00	10369.54	102.7
7	LD79	L6	True	25250.00	25094.26	99.4





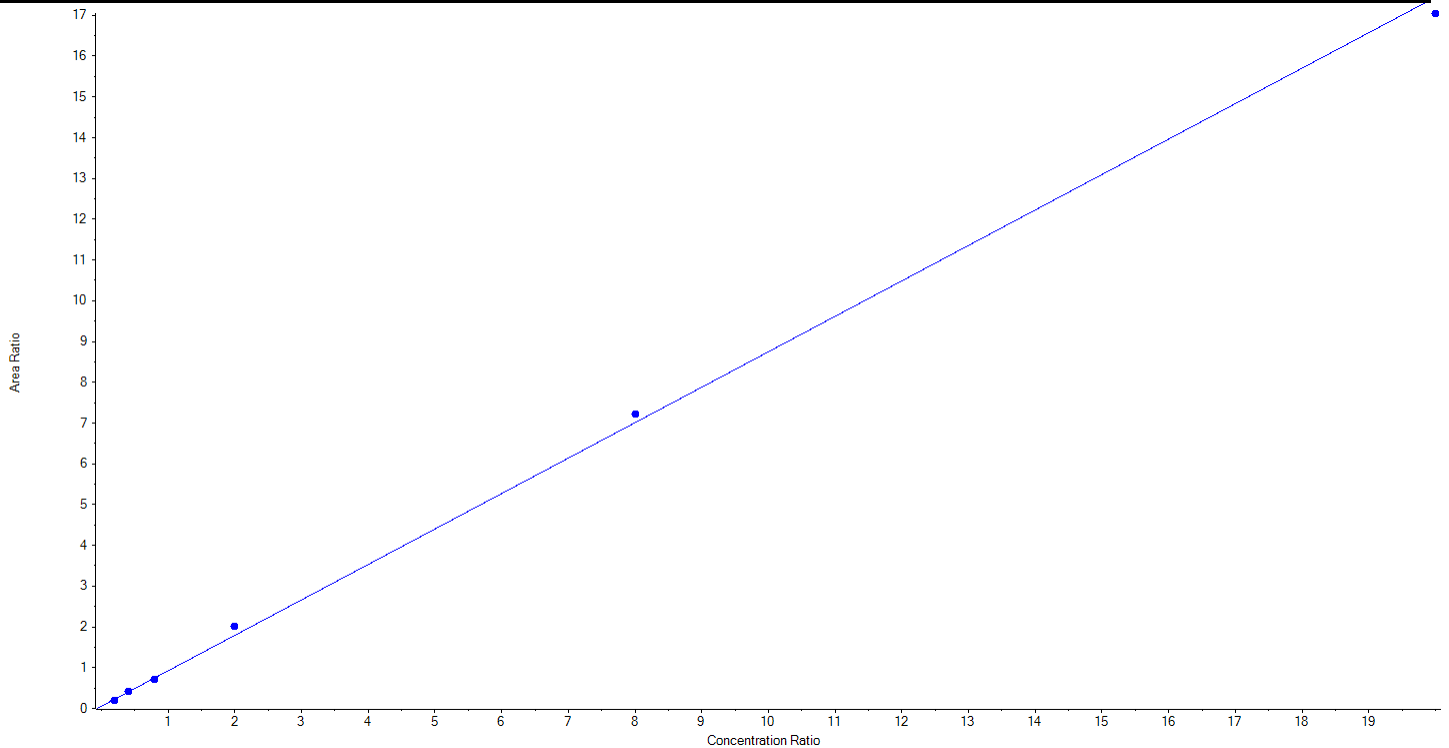
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Analyte Name	PFDA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	513.0 / 469.0	Result Table	20-1298
Internal Standard	13C6-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.86938x + 0.05530$ ($r = 0.99887$) (weighting: $1/x$) $r^2: 0.9977$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	218.73	87.5
3	LD75	L2	True	500.00	526.64	105.3
4	LD76	L3	True	1000.00	929.91	93.0
5	LD77	L4	True	2500.00	2833.26	113.3
6	LD78	L5	True	10000.00	10315.61	103.2
7	LD79	L6	True	25000.00	24425.85	97.7





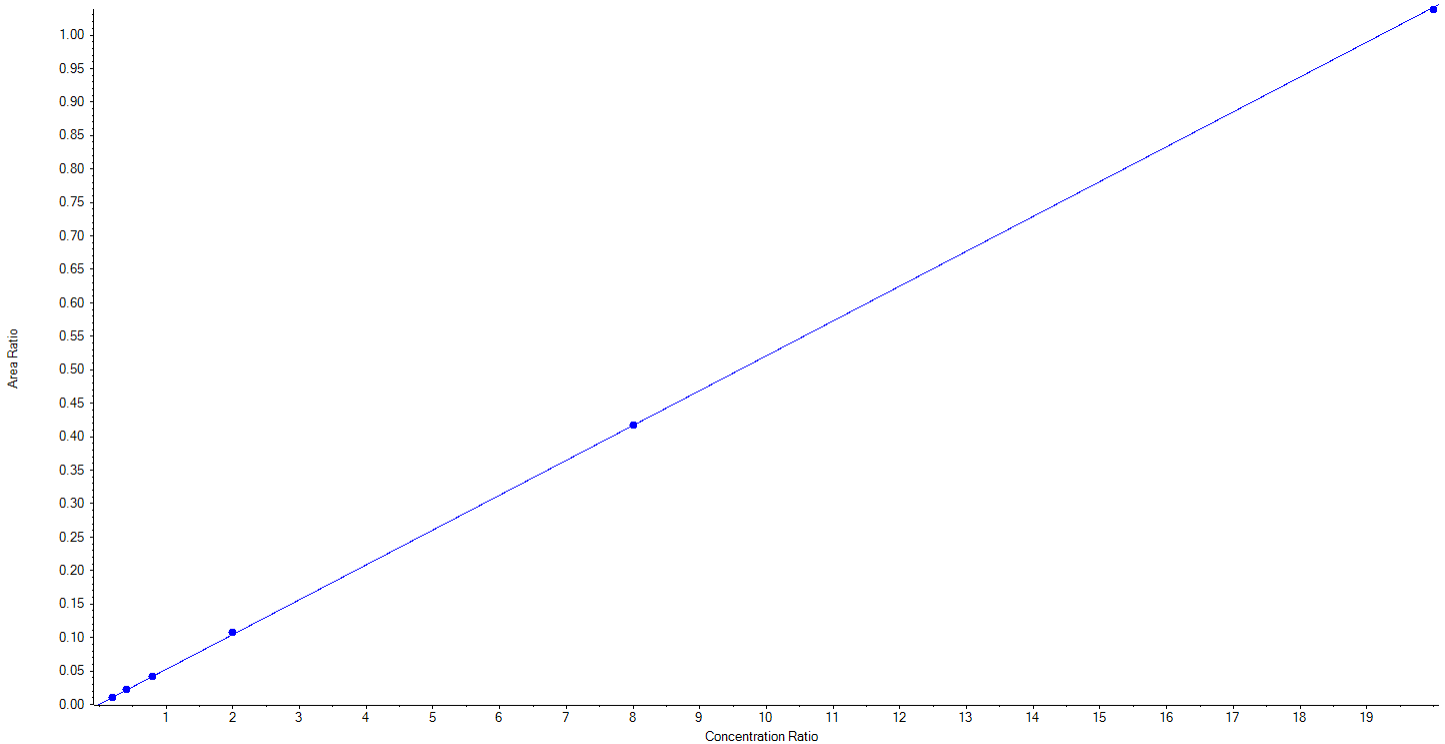
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Analyte Name	PFDA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	513.0 / 219.0	Result Table	20-1298
Internal Standard	13C6-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.05206 x + 3.79964e-4$ ($r = 0.99993$) (weighting: $1/x$) $r^2: 0.9999$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	232.30	92.9
3	LD75	L2	True	500.00	522.18	104.4
4	LD76	L3	True	1000.00	999.52	100.0
5	LD77	L4	True	2500.00	2574.92	103.0
6	LD78	L5	True	10000.00	10001.95	100.0
7	LD79	L6	True	25000.00	24919.14	99.7





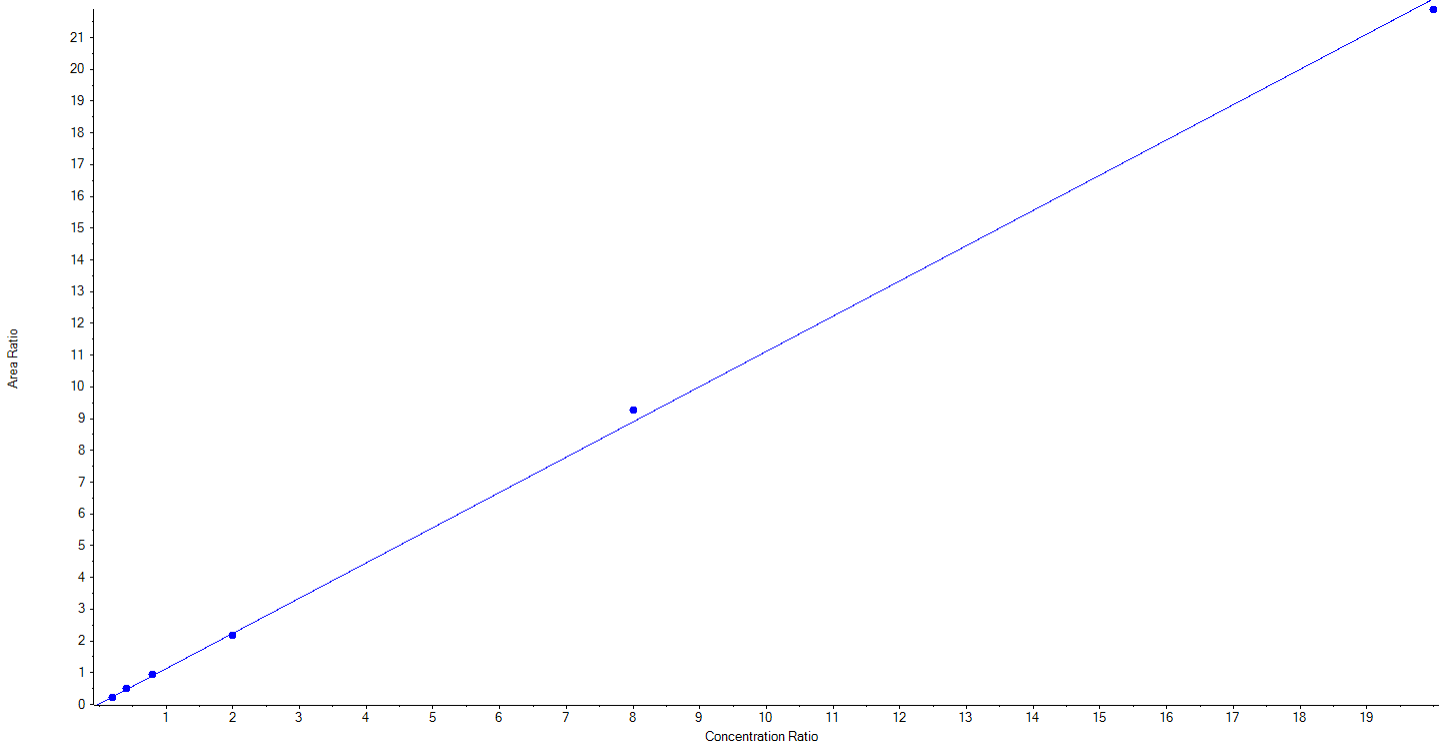
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Analyte Name	PFUnA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	563.0 / 519.0	Result Table	20-1298
Internal Standard	13C7-PFUnA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.10996x + 0.01872$ ($r = 0.99953$) (weighting: $1/x$) $r^2: 0.9991$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	222.35	88.9
3	LD75	L2	True	500.00	539.12	107.8
4	LD76	L3	True	1000.00	1037.97	103.8
5	LD77	L4	True	2500.00	2422.01	96.9
6	LD78	L5	True	10000.00	10407.33	104.1
7	LD79	L6	True	25000.00	24621.23	98.5





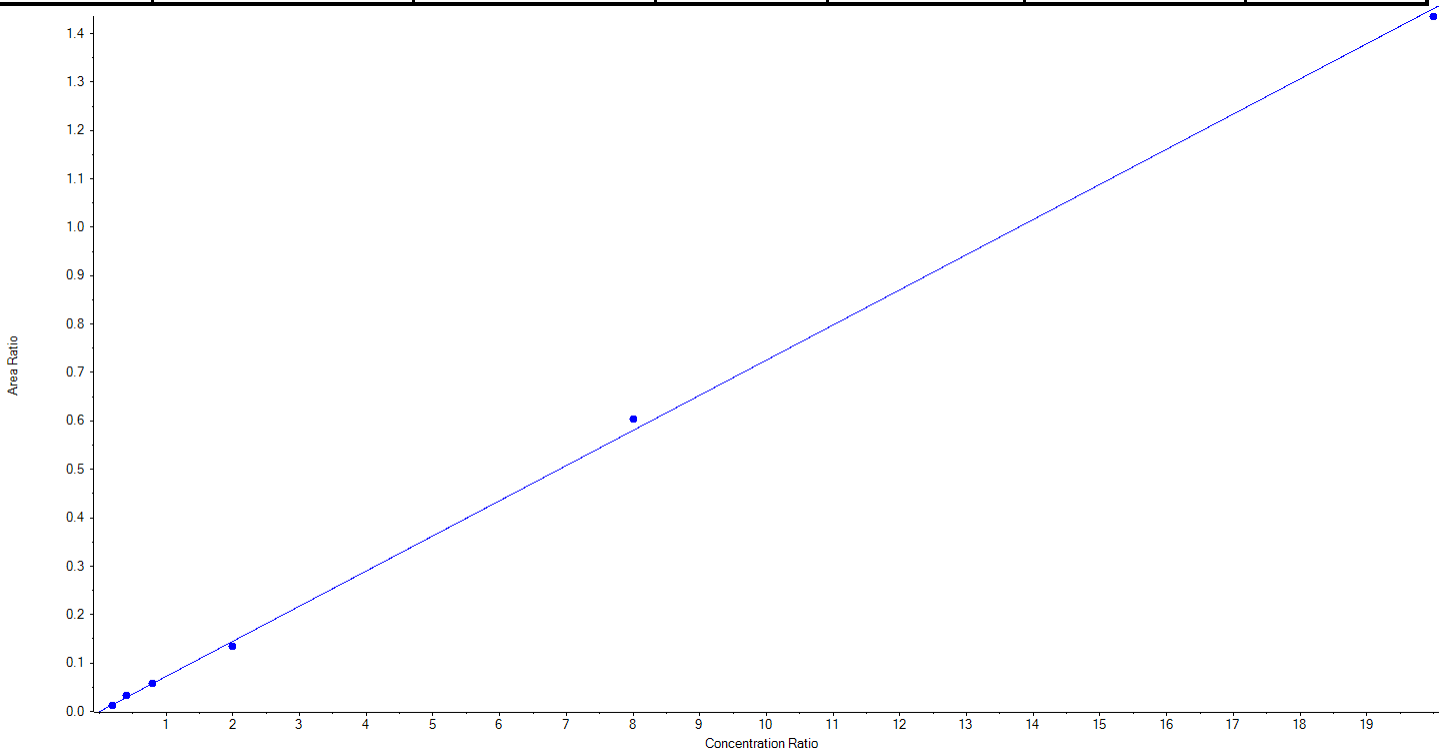
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Analyte Name	PFUnA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	563.0 / 269.0	Result Table	20-1298
Internal Standard	13C7-PFUnA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.07259x + -2.36564e-4$ ($r = 0.99929$) (weighting: $1/x$) $r^2: 0.9986$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	219.12	87.7
3	LD75	L2	True	500.00	585.69	117.1
4	LD76	L3	True	1000.00	989.29	98.9
5	LD77	L4	True	2500.00	2334.41	93.4
6	LD78	L5	True	10000.00	10403.74	104.0
7	LD79	L6	True	25000.00	24717.74	98.9





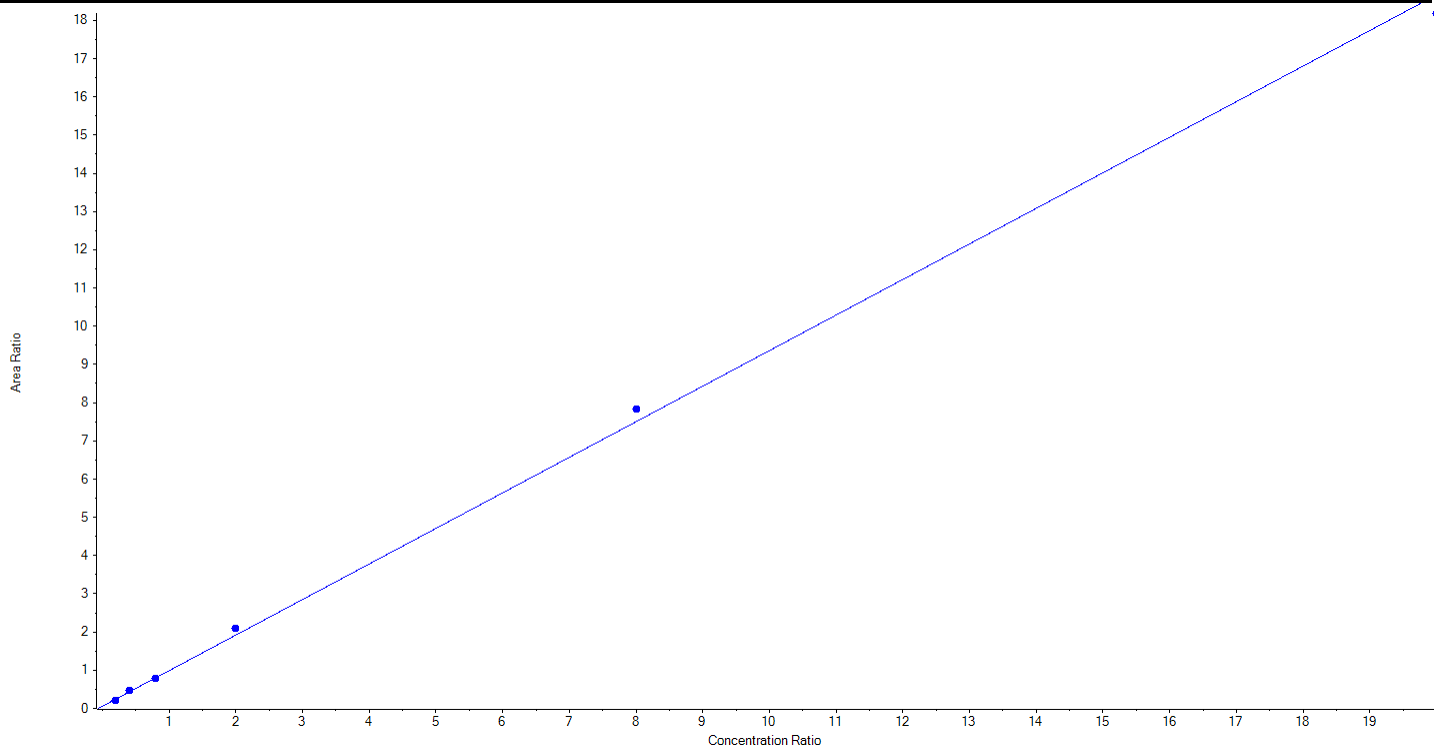
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Analyte Name	PFD _o A_1	Data File	AE_10292020_5-369.wiff
MRM Transition	613.0 / 569.0	Result Table	20-1298
Internal Standard	13C2-PFD _o A	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.93022x + 0.05985$ ($r = 0.99899$) (weighting: $1/x$) $r^2: 0.9980$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	208.72	83.5
3	LD75	L2	True	500.00	536.51	107.3
4	LD76	L3	True	1000.00	977.20	97.7
5	LD77	L4	True	2500.00	2743.11	109.7
6	LD78	L5	True	10000.00	10437.66	104.4
7	LD79	L6	True	25000.00	24346.80	97.4





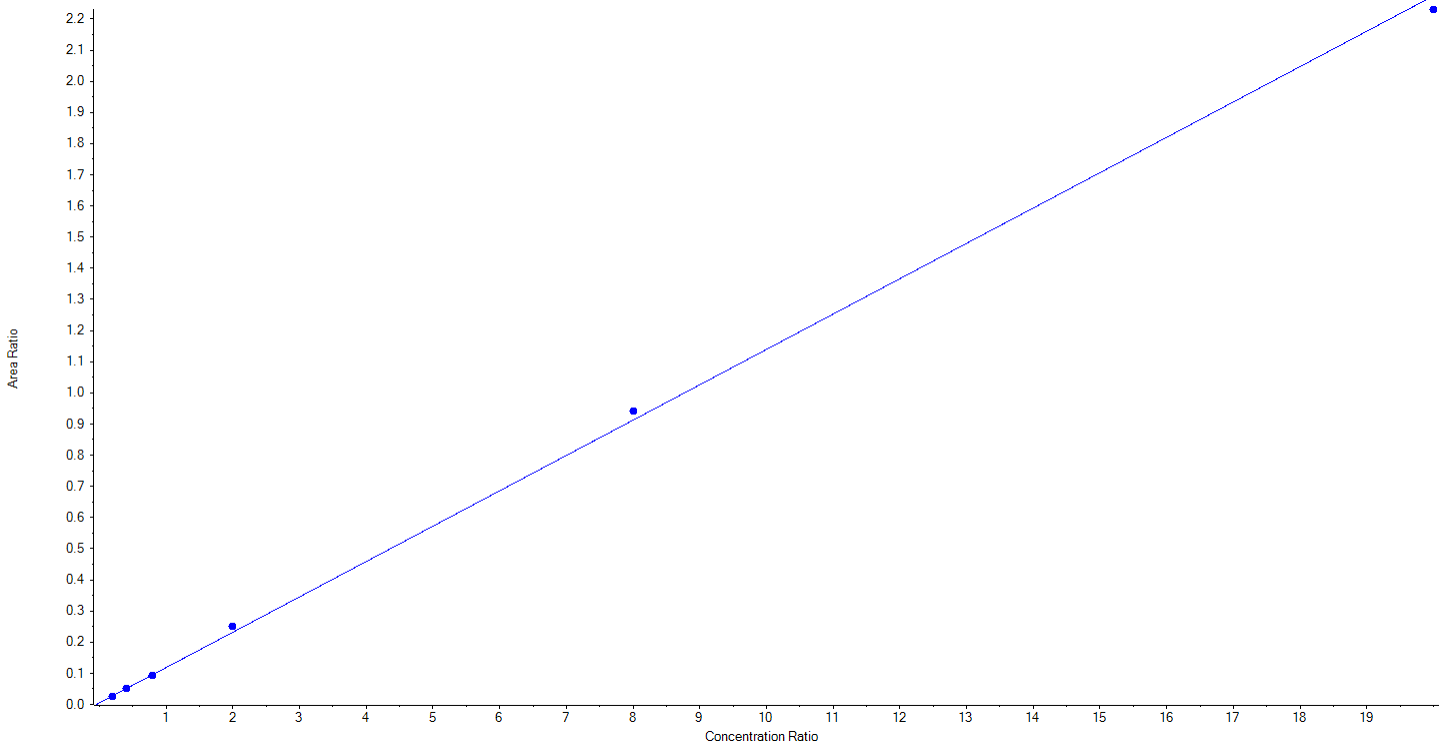
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Analyte Name	PFDoA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	613.0 / 319.0	Result Table	20-1298
Internal Standard	13C2-PFDoA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.11344 x + 0.00504$ ($r = 0.99942$) (weighting: $1/x$) $r^2: 0.9988$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	238.79	95.5
3	LD75	L2	True	500.00	494.25	98.9
4	LD76	L3	True	1000.00	958.58	95.9
5	LD77	L4	True	2500.00	2709.99	108.4
6	LD78	L5	True	10000.00	10330.55	103.3
7	LD79	L6	True	25000.00	24517.84	98.1





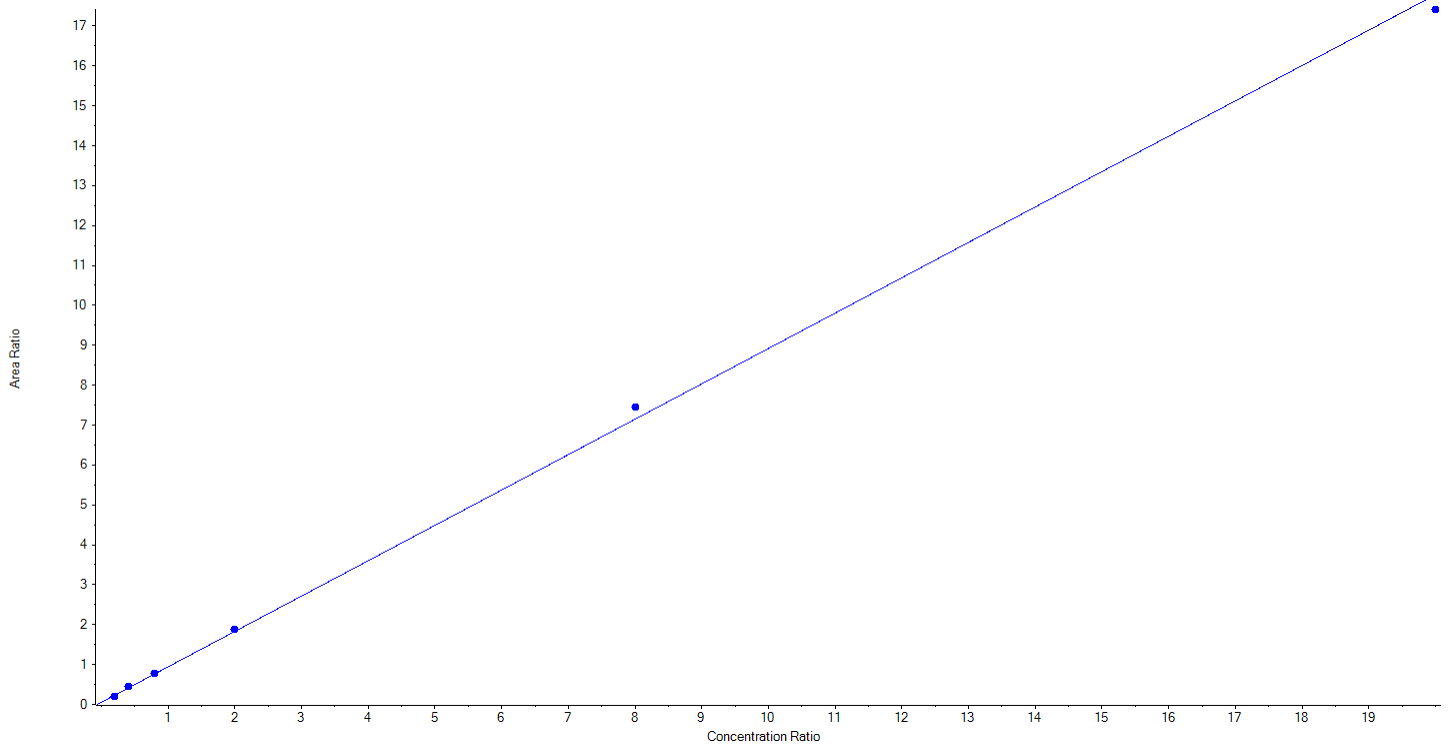
Calibration Summary Report

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Printed: 05/11/2020 1:22:13 PM

Analyte Name	PFTrDA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	663.0 / 619.0	Result Table	20-1298
Internal Standard	13C2-PFTeDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.88615x + 0.05802$ ($r = 0.99941$) (weighting: $1/x$) $r^2: 0.9988$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	215.78	86.3
3	LD75	L2	True	500.00	541.34	108.3
4	LD76	L3	True	1000.00	998.96	99.9
5	LD77	L4	True	2500.00	2581.76	103.3
6	LD78	L5	True	10000.00	10433.92	104.3
7	LD79	L6	True	25000.00	24478.23	97.9





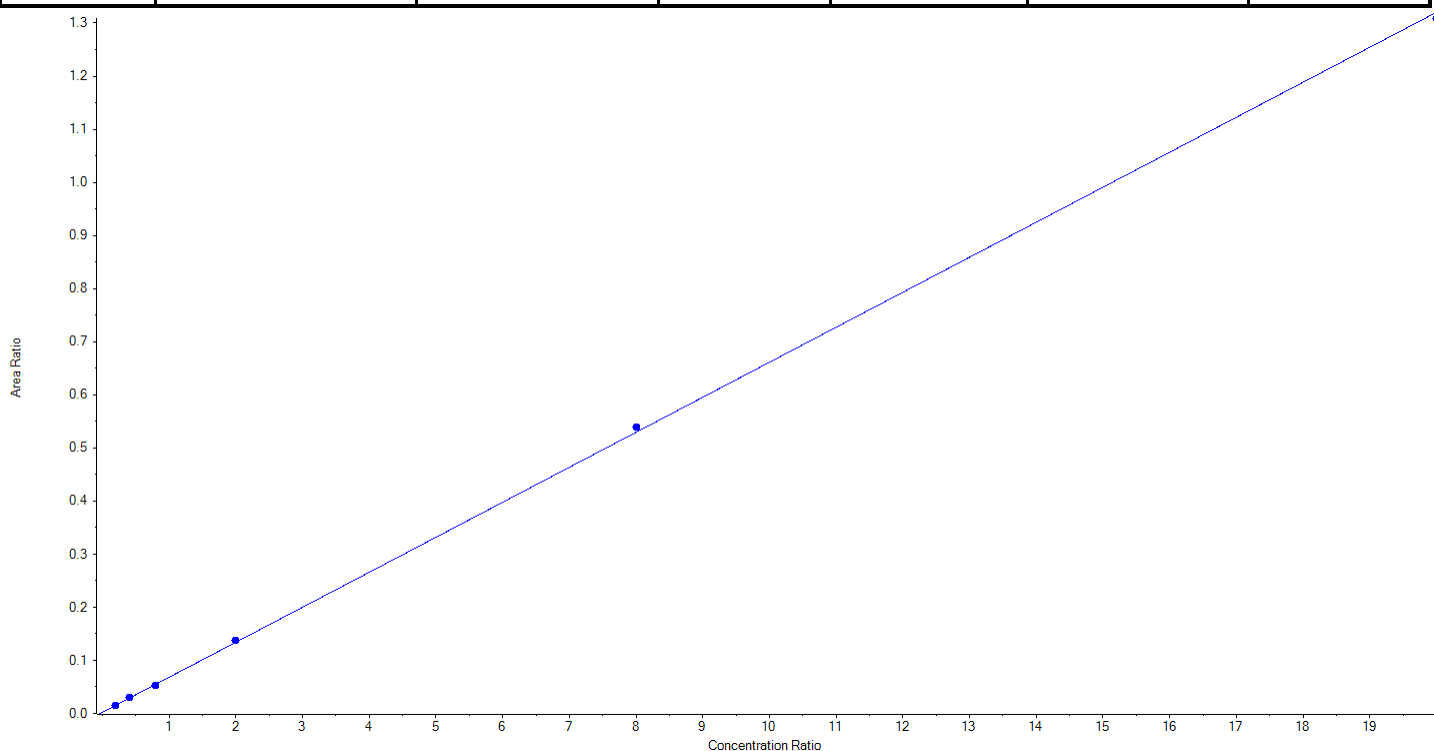
Calibration Summary Report

Created with Analyst Reporter
Printed: 05/11/2020 1:22:13 PM

Analyte Name	PFTrDA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	663.0 / 169.0	Result Table	20-1298
Internal Standard	13C2-PFTeDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.06590x + 0.00236$ ($r = 0.99985$) (weighting: $1/x$) $r^2: 0.9997$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	241.37	96.6
3	LD75	L2	True	500.00	519.16	103.8
4	LD76	L3	True	1000.00	957.49	95.8
5	LD77	L4	True	2500.00	2573.69	103.0
6	LD78	L5	True	10000.00	10181.97	101.8
7	LD79	L6	True	25000.00	24776.32	99.1





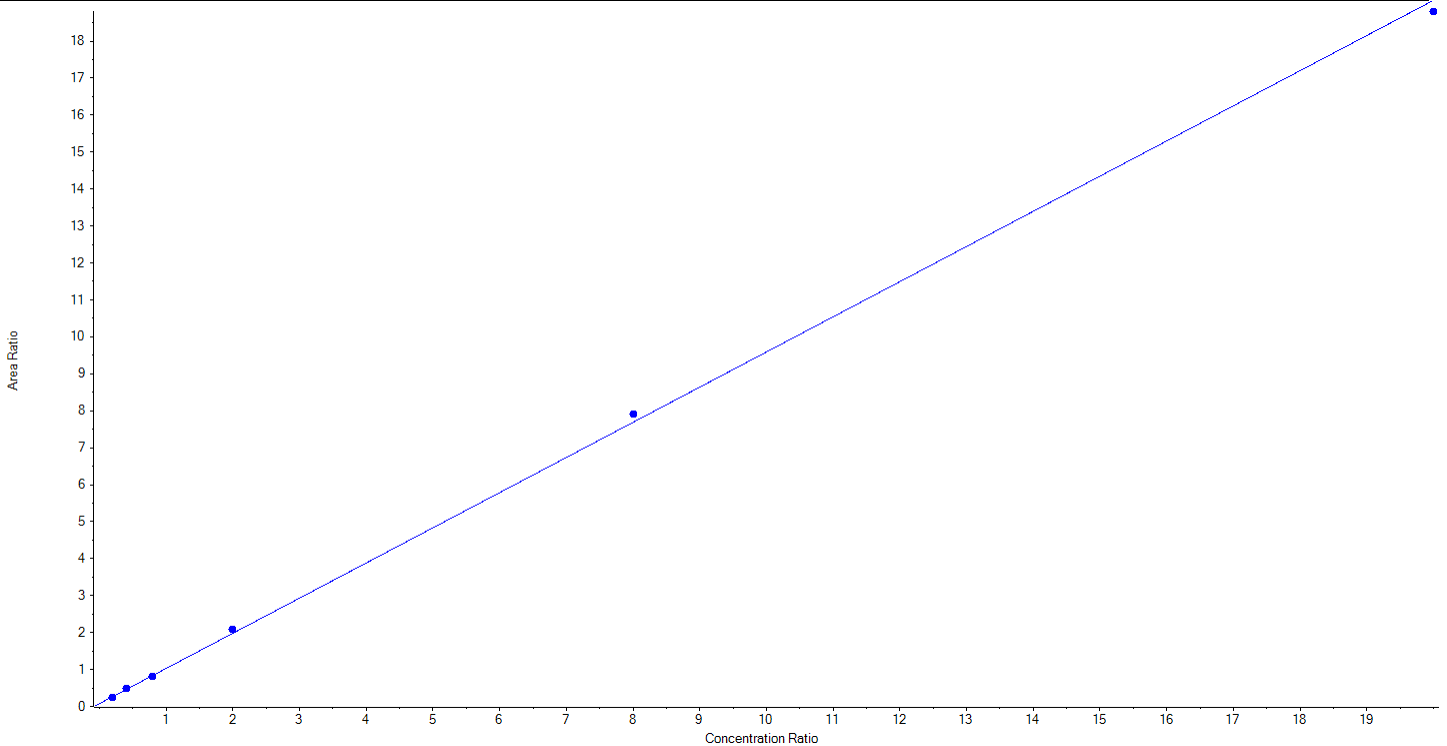
Calibration Summary Report

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Analyte Name	PFTeDA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	713.0 / 669.0	Result Table	20-1298
Internal Standard	13C2-PFTeDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.95126x + 0.07812$ ($r = 0.99954$) (weighting: $1/x$) $r^2: 0.9991$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	217.80	87.1
3	LD75	L2	True	500.00	548.22	109.6
4	LD76	L3	True	1000.00	964.96	96.5
5	LD77	L4	True	2500.00	2638.59	105.5
6	LD78	L5	True	10000.00	10278.94	102.8
7	LD79	L6	True	25000.00	24601.48	98.4





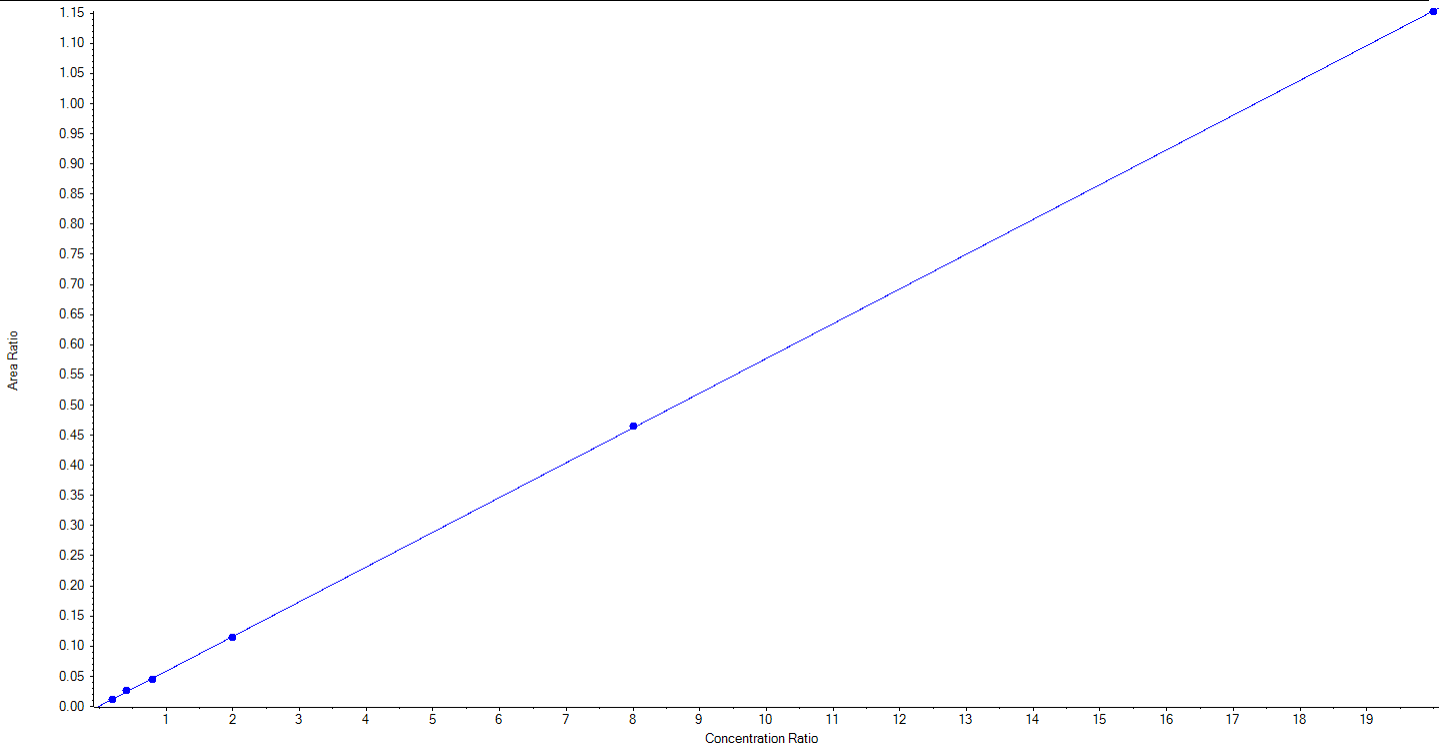
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Analyte Name	PFTeDA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	713.0 / 169.0	Result Table	20-1298
Internal Standard	13C2-PFTeDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.05765x + 8.03479e-4$ ($r = 0.99985$) (weighting: $1/x$) $r^2: 0.9997$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	234.40	93.8
3	LD75	L2	True	500.00	557.15	111.4
4	LD76	L3	True	1000.00	961.56	96.2
5	LD77	L4	True	2500.00	2451.27	98.1
6	LD78	L5	True	10000.00	10070.55	100.7
7	LD79	L6	True	25000.00	24975.08	99.9





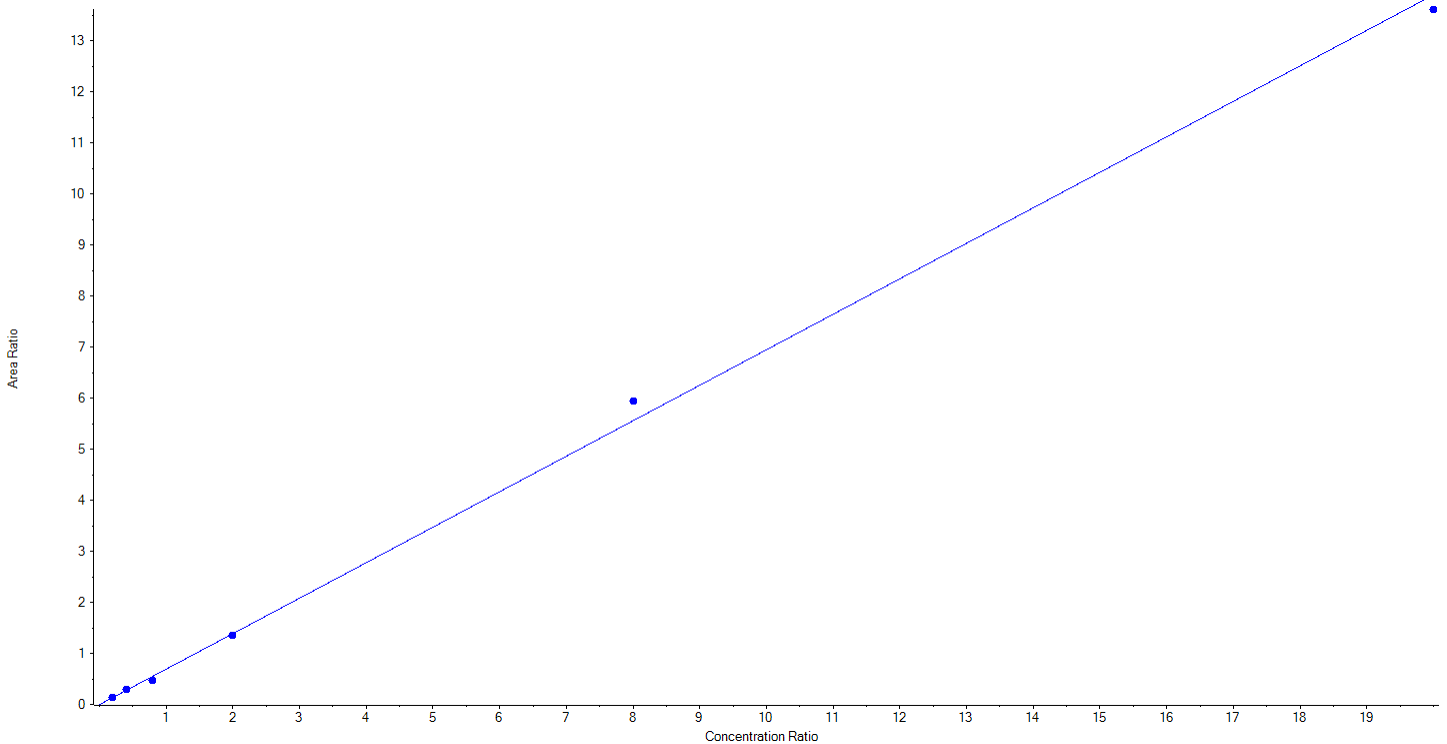
Calibration Summary Report

Created with Analyst Reporter
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Analyte Name	NMeFOSAA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	570.0 / 419.0	Result Table	20-1298
Internal Standard	d3-MeFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.69523x + -0.00297$ ($r = 0.99885$) (weighting: $1/x$) $r^2: 0.9977$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	263.60	105.4
3	LD75	L2	True	500.00	530.02	106.0
4	LD76	L3	True	1000.00	868.49	86.9
5	LD77	L4	True	2500.00	2424.25	97.0
6	LD78	L5	True	10000.00	10680.61	106.8
7	LD79	L6	True	25000.00	24483.04	97.9





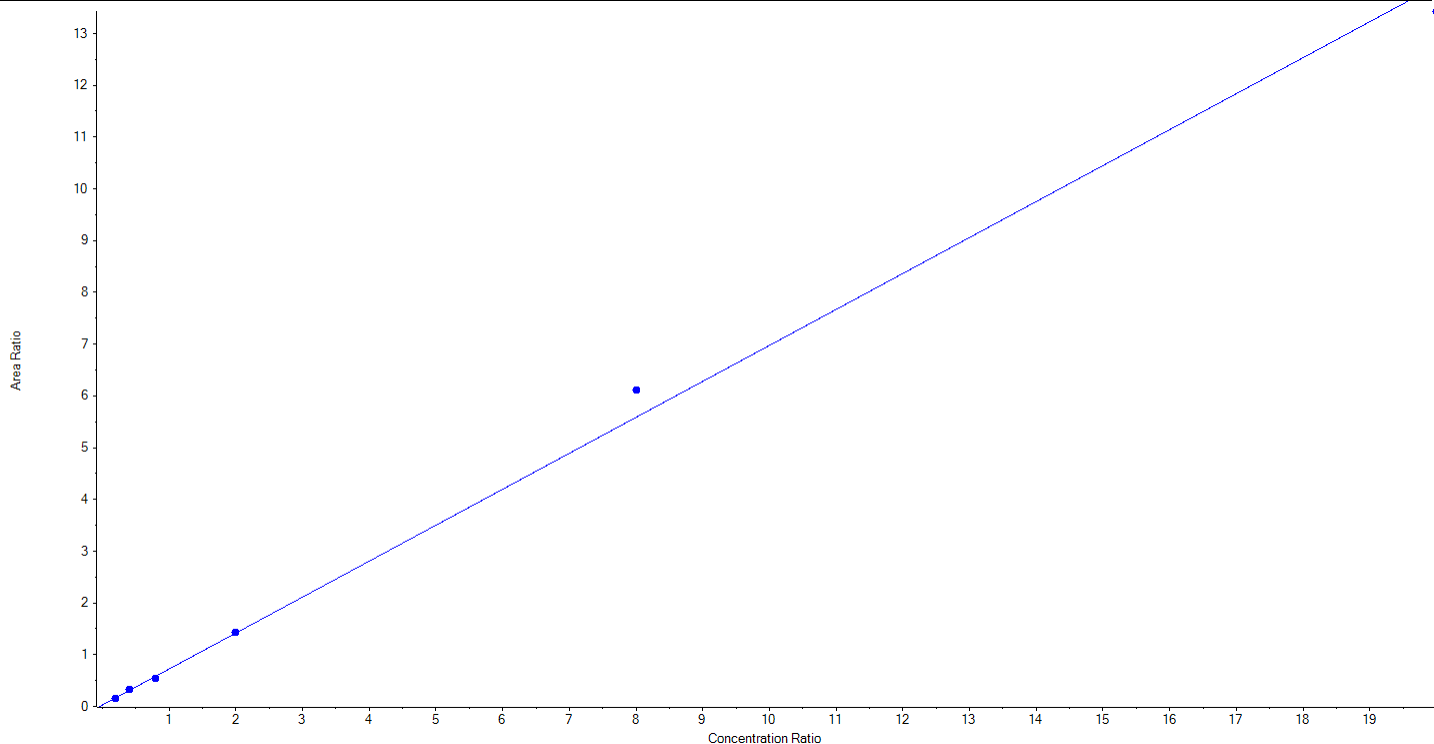
Calibration Summary Report

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Analyte Name	NMeFOSAA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	570.0 / 512.0	Result Table	20-1298
Internal Standard	d3-MeFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.69462x + 0.02907$ ($r = 0.99811$) (weighting: $1/x$) $r^2: 0.9962$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	240.37	96.2
3	LD75	L2	True	500.00	528.60	105.7
4	LD76	L3	True	1000.00	918.55	91.9
5	LD77	L4	True	2500.00	2509.28	100.4
6	LD78	L5	True	10000.00	10948.74	109.5
7	LD79	L6	True	25000.00	24104.45	96.4





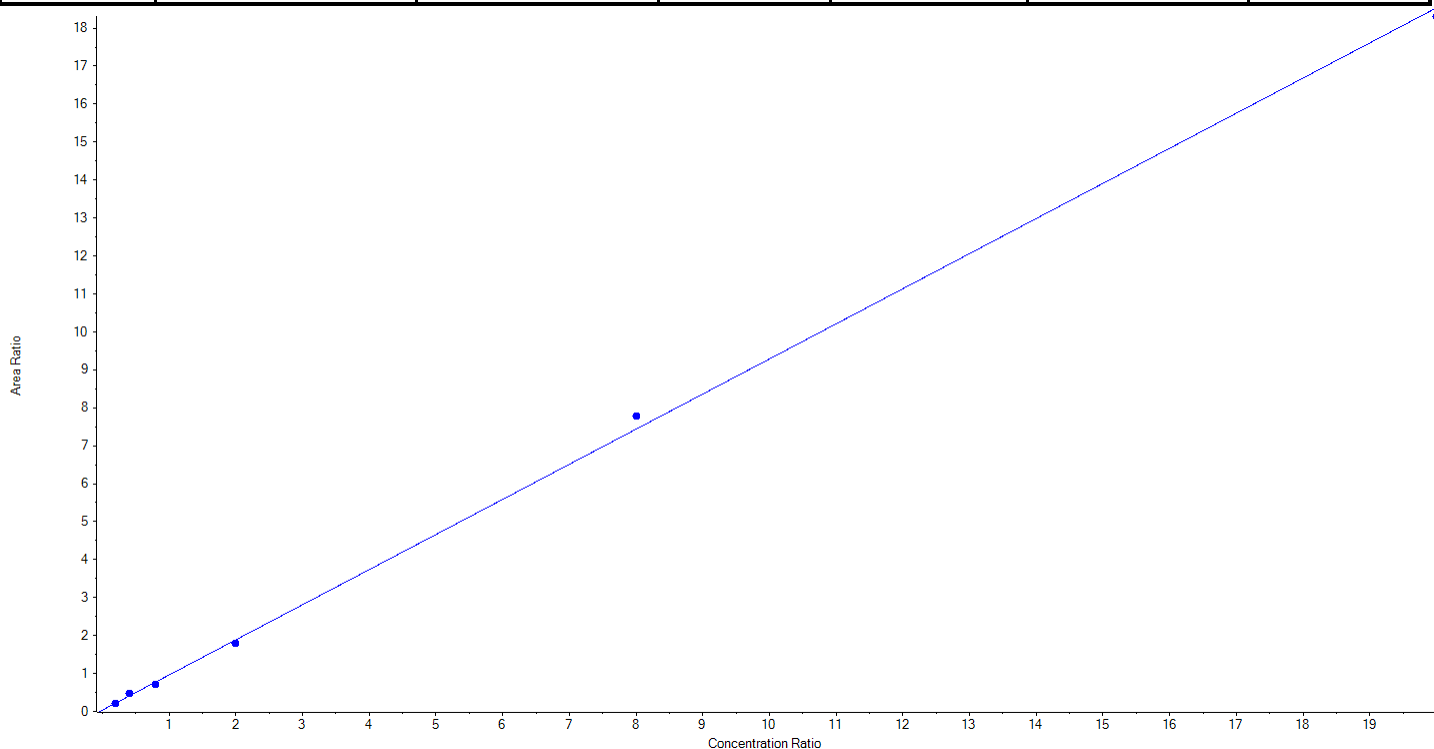
Calibration Summary Report

Created with Analyst Reporter
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Analyte Name	NEtFOSAA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	584.0 / 419.0	Result Table	20-1298
Internal Standard	d5-EtFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.92487x + 0.03790$ ($r = 0.99912$) (weighting: $1/x$) $r^2: 0.9982$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	234.21	93.7
3	LD75	L2	True	500.00	590.36	118.1
4	LD76	L3	True	1000.00	904.09	90.4
5	LD77	L4	True	2500.00	2358.57	94.3
6	LD78	L5	True	10000.00	10473.27	104.7
7	LD79	L6	True	25000.00	24689.49	98.8





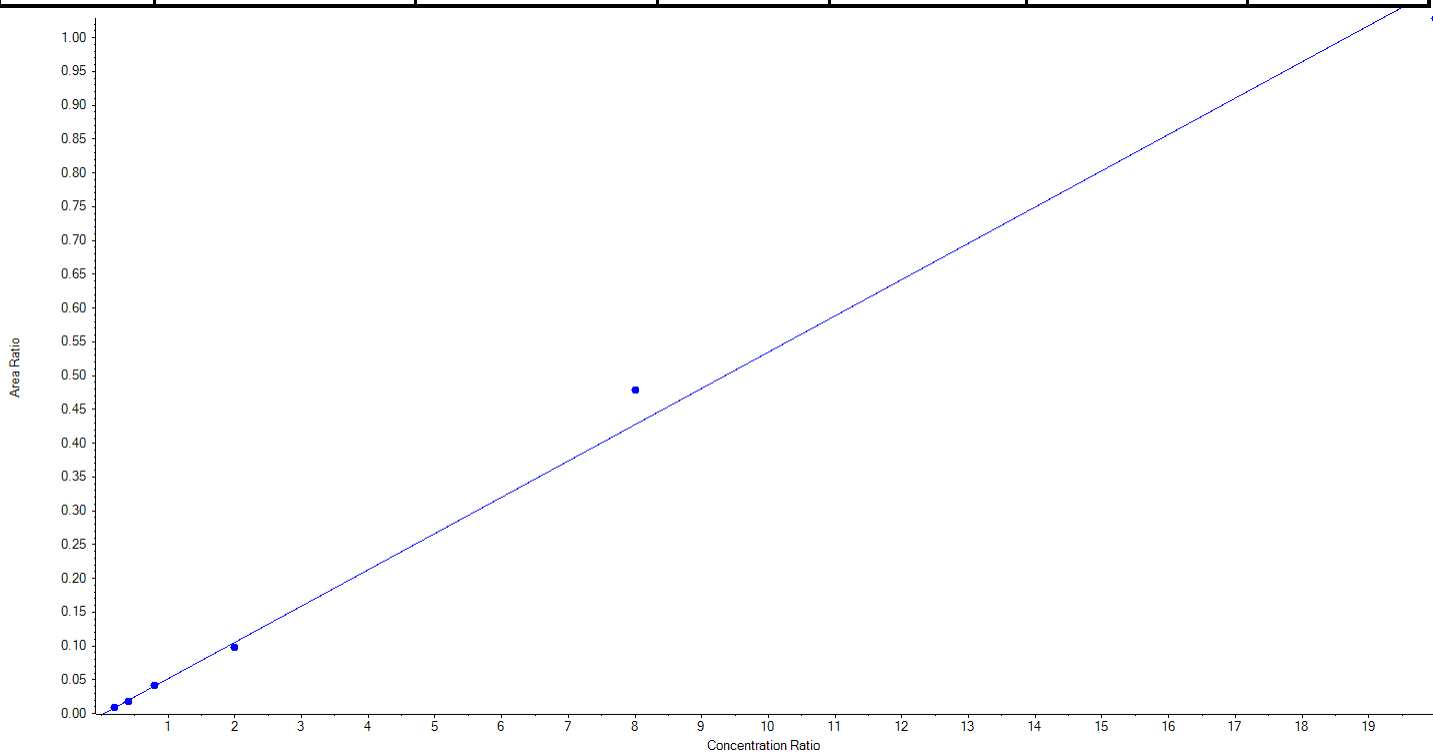
Calibration Summary Report

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Analyte Name	NEtFOSAA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	584.0 / 483.0	Result Table	20-1298
Internal Standard	d5-EtFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.05369x + -0.00209$ ($r = 0.99716$) (weighting: $1/x$) $r^2: 0.9943$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	256.99	102.8
3	LD75	L2	True	500.00	474.32	94.9
4	LD76	L3	True	1000.00	1016.81	101.7
5	LD77	L4	True	2500.00	2319.86	92.8
6	LD78	L5	True	10000.00	11189.55	111.9
7	LD79	L6	True	25000.00	23992.48	96.0





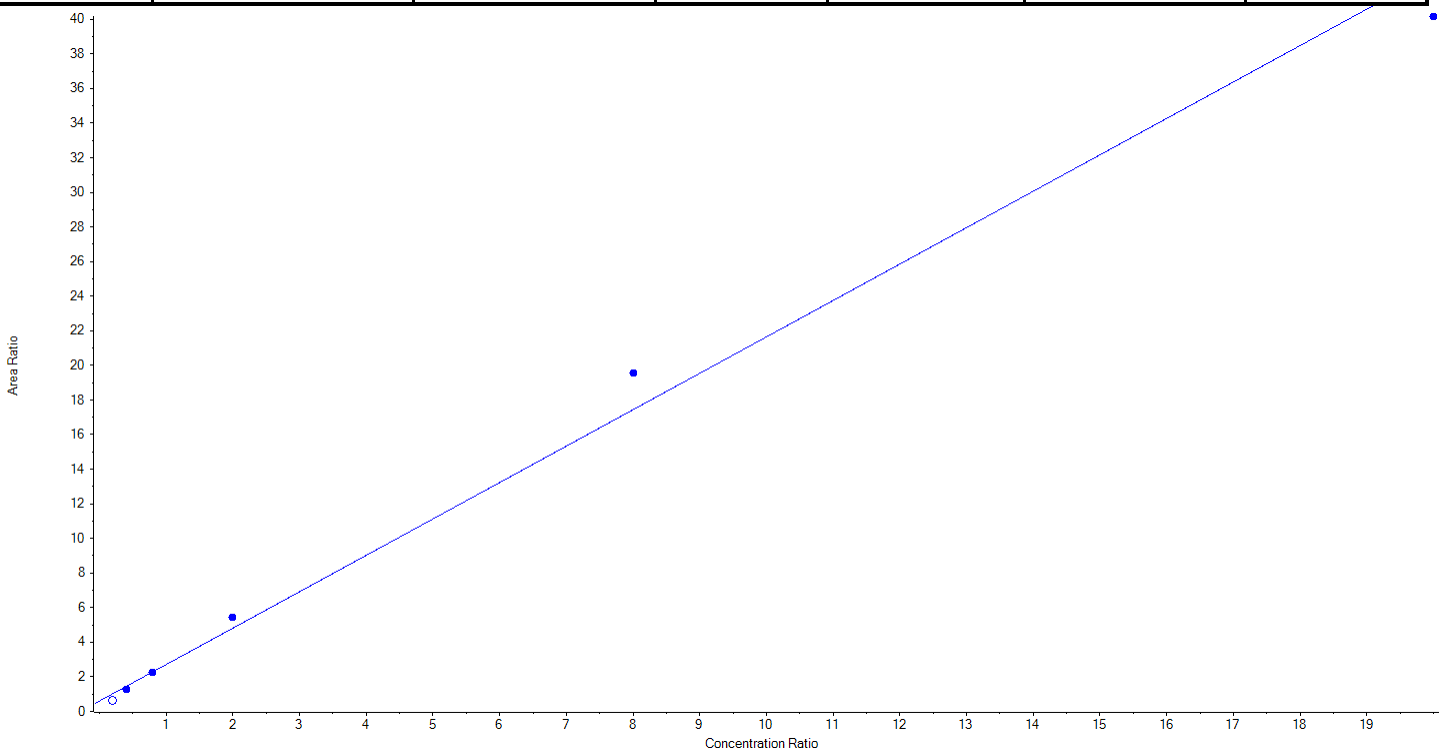
Calibration Summary Report

Created with Analyst Reporter
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Analyte Name	HFPO-DA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	285.0 / 169.0	Result Table	20-1298
Internal Standard	13C3-HFPO-DA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 2.10407x + 0.60712$ ($r = 0.99504$) (weighting: $1/x$) $r^2: 0.9901$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	False	250.00	10.10	4.0
3	LD75	L2	True	500.00	402.37	80.5
4	LD76	L3	True	1000.00	986.14	98.6
5	LD77	L4	True	2500.00	2859.27	114.4
6	LD78	L5	True	10000.00	11255.44	112.6
7	LD79	L6	True	25000.00	23496.78	94.0





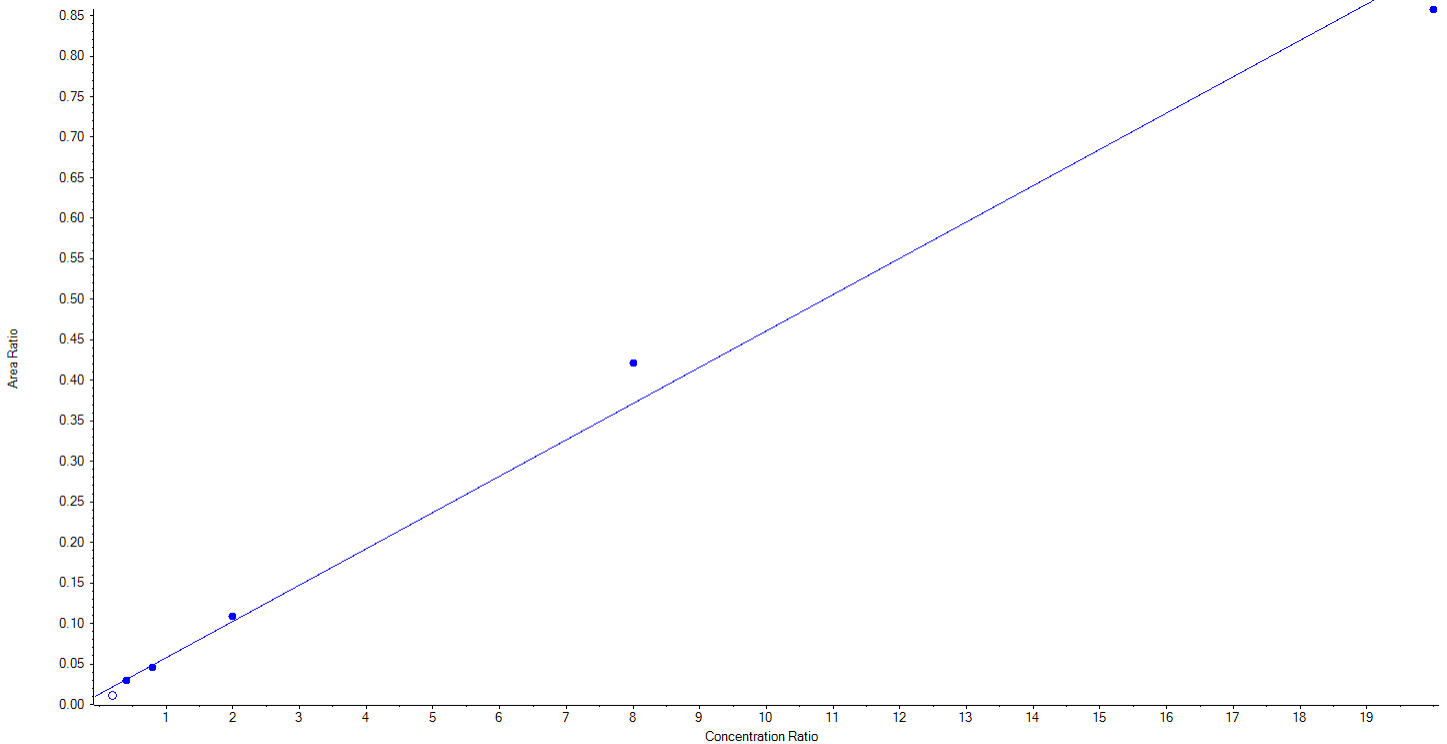
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Analyte Name	HFPO-DA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	285.0 / 118.8	Result Table	20-1298
Internal Standard	13C3-HFPO-DA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.04481x + 0.01292$ ($r = 0.99537$) (weighting: $1/x$) $r^2: 0.9908$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	False	250.00	< 0	N/A
3	LD75	L2	True	500.00	472.28	94.5
4	LD76	L3	True	1000.00	906.33	90.6
5	LD77	L4	True	2500.00	2668.87	106.8
6	LD78	L5	True	10000.00	11391.14	113.9
7	LD79	L6	True	25000.00	23561.38	94.3





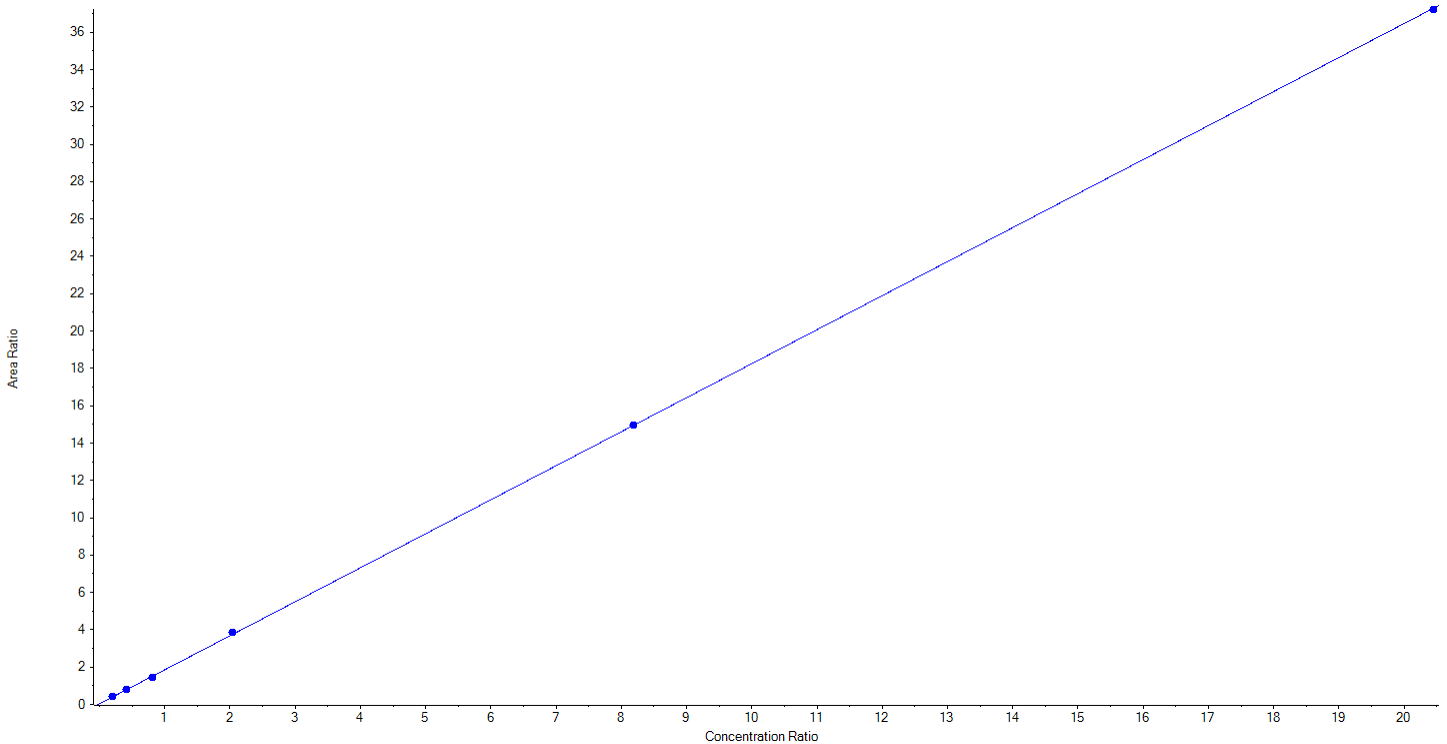
Calibration Summary Report

Created with Analyst Reporter
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Analyte Name	ADONA_1	Data File	AE_10292020_5-369.wiff
MRM Transition	377.0 / 251.0	Result Table	20-1298
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.82163x + 0.03488$ ($r = 0.99995$) (weighting: $1/x$) $r^2: 0.9999$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	247.22	98.9
3	LD75	L2	True	500.00	510.51	102.1
4	LD76	L3	True	1000.00	963.24	96.3
5	LD77	L4	True	2500.00	2570.36	102.8
6	LD78	L5	True	10000.00	10005.67	100.1
7	LD79	L6	True	25000.00	24952.99	99.8





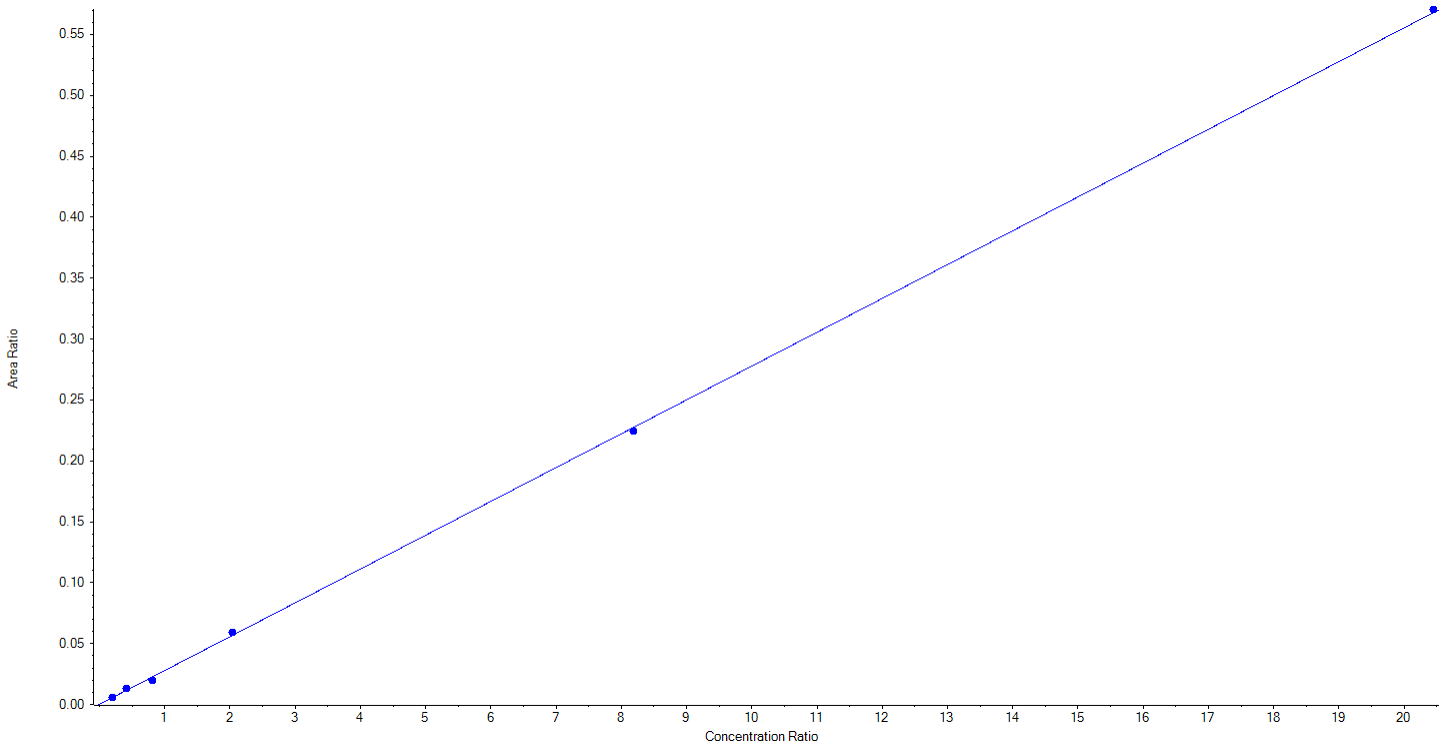
Calibration Summary Report

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Analyte Name	ADONA_2	Data File	AE_10292020_5-369.wiff
MRM Transition	377.0 / 85.0	Result Table	20-1298
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.02777 x + 1.20690e-4$ ($r = 0.99954$) (weighting: $1/x$) $r^2: 0.9991$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	250.81	100.3
3	LD75	L2	True	500.00	557.33	111.5
4	LD76	L3	True	1000.00	855.26	85.5
5	LD77	L4	True	2500.00	2582.85	103.3
6	LD78	L5	True	10000.00	9892.49	98.9
7	LD79	L6	True	25000.00	25111.26	100.5





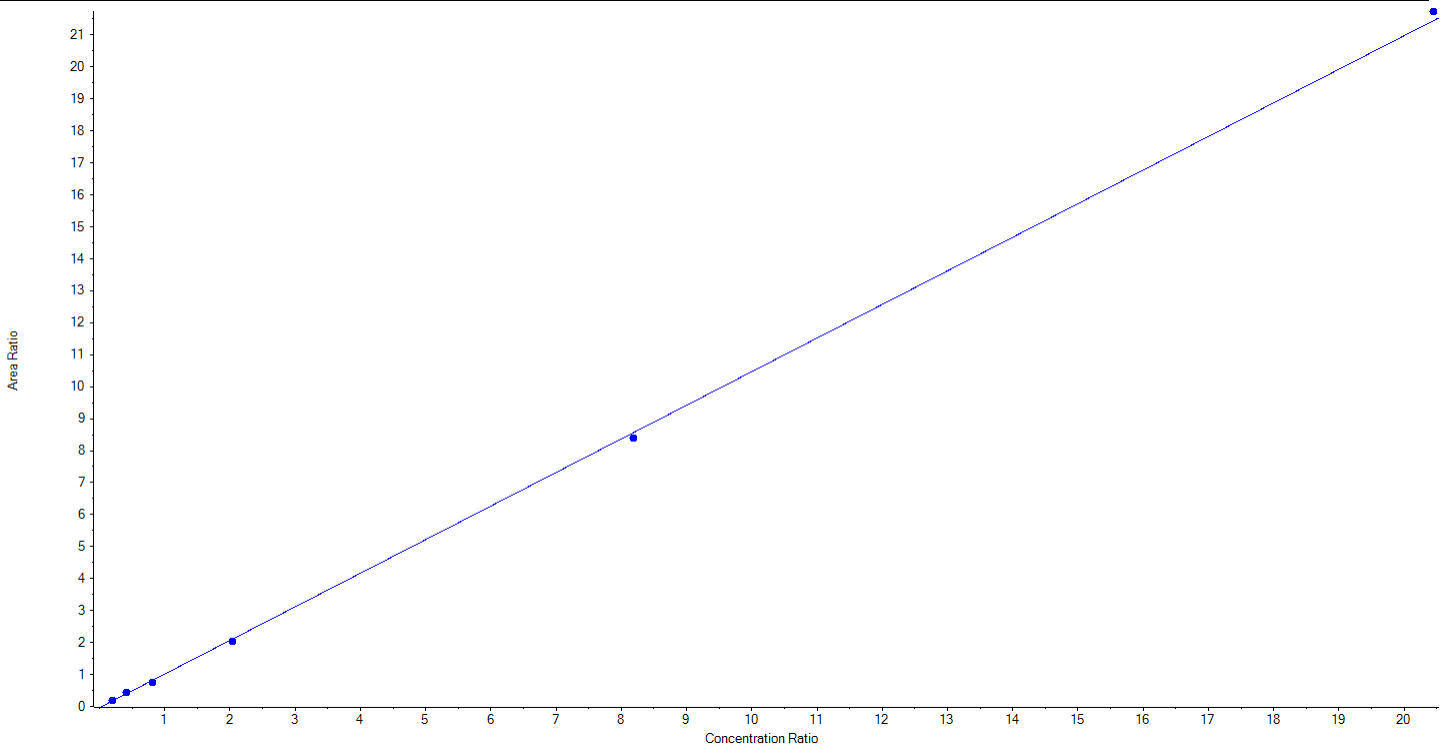
Calibration Summary Report

Created with Analyst Reporter
Printed: 05/11/2020 1:22:13 PM

Analyte Name	9CI-PF3ONS_1	Data File	AE_10292020_5-369.wiff
MRM Transition	531.0 / 351.0	Result Table	20-1298
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.05052x + -0.03515$ ($r = 0.99965$) (weighting: $1/x$) $r^2: 0.9993$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	268.01	107.2
3	LD75	L2	True	500.00	533.43	106.7
4	LD76	L3	True	1000.00	902.04	90.2
5	LD77	L4	True	2500.00	2413.87	96.6
6	LD78	L5	True	10000.00	9803.67	98.0
7	LD79	L6	True	25000.00	25328.99	101.3





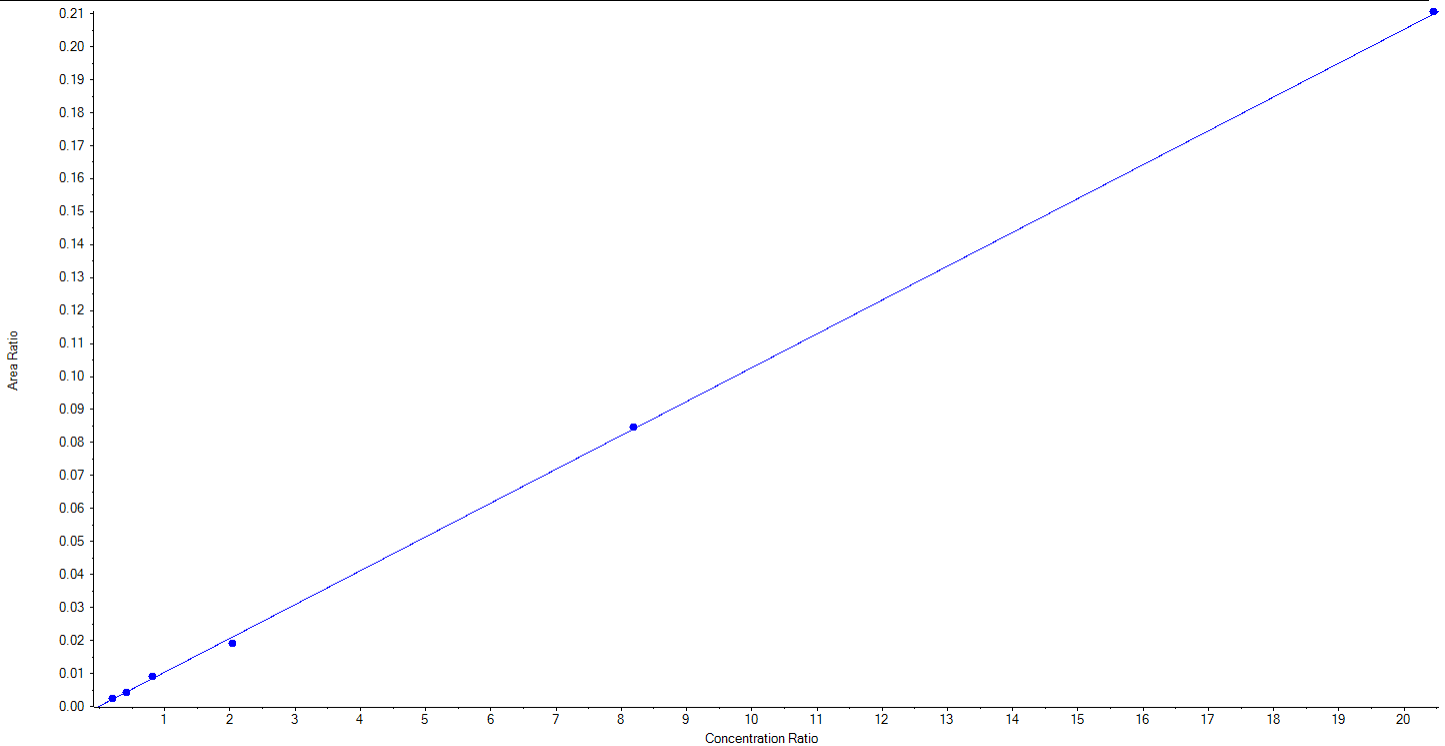
Calibration Summary Report

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Printed: 05/11/2020 1:22:13 PM

Analyte Name	9CI-PF3ONS_2	Data File	AE_10292020_5-369.wiff
MRM Transition	531.0 / 83.0	Result Table	20-1298
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.01026 x + 1.23613e-4$ ($r = 0.99956$) (weighting: $1/x$) $r^2: 0.9991$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	264.50	105.8
3	LD75	L2	True	500.00	481.69	96.3
4	LD76	L3	True	1000.00	1062.72	106.3
5	LD77	L4	True	2500.00	2257.72	90.3
6	LD78	L5	True	10000.00	10091.40	100.9
7	LD79	L6	True	25000.00	25091.98	100.4





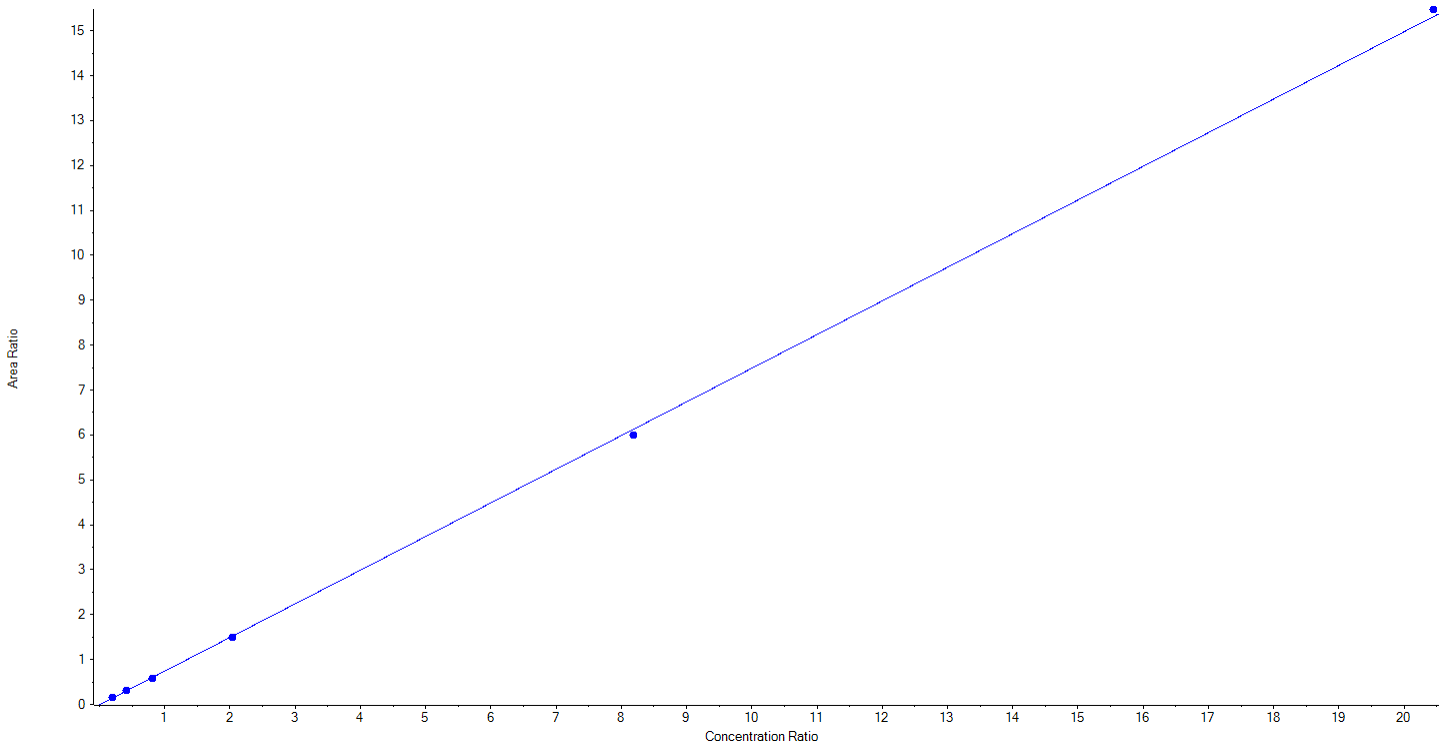
Calibration Summary Report

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Analyte Name	11Cl-pf3OUdS_1	Data File	AE_10292020_5-369.wiff
MRM Transition	631.0 / 451.0	Result Table	20-1298
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.74925x + -0.00723$ ($r = 0.99985$) (weighting: $1/x$) $r^2: 0.9997$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	265.50	106.2
3	LD75	L2	True	500.00	507.21	101.4
4	LD76	L3	True	1000.00	947.10	94.7
5	LD77	L4	True	2500.00	2462.62	98.5
6	LD78	L5	True	10000.00	9812.07	98.1
7	LD79	L6	True	25000.00	25255.50	101.0





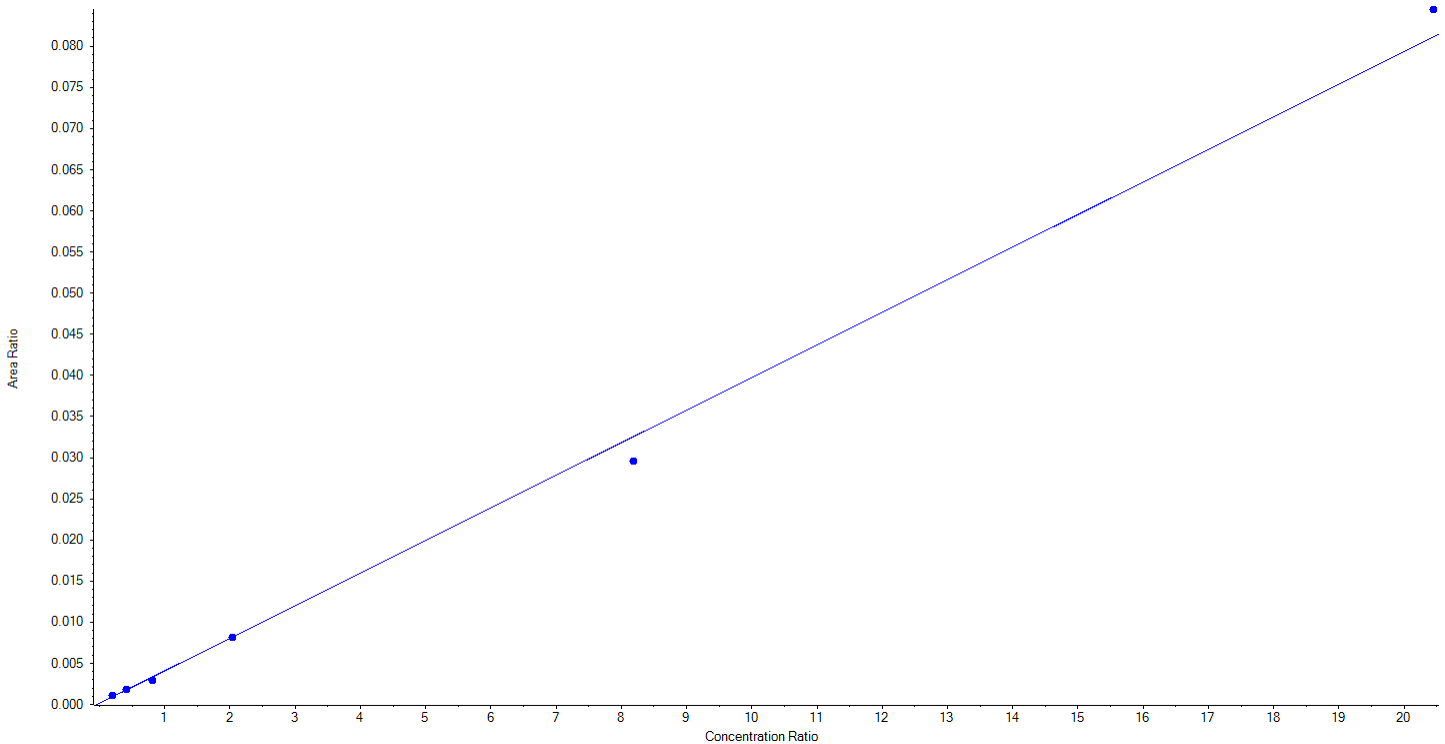
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Analyte Name	11Cl-pf3OUdS_2	Data File	AE_10292020_5-369.wiff
MRM Transition	631.0 / 83.0	Result Table	20-1298
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.00396 x + 1.31641e-4$ ($r = 0.99771$) (weighting: $1/x$) $r^2: 0.9954$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	297.53	119.0
3	LD75	L2	True	500.00	509.35	101.9
4	LD76	L3	True	1000.00	848.51	84.9
5	LD77	L4	True	2500.00	2482.84	99.3
6	LD78	L5	True	10000.00	9084.62	90.9
7	LD79	L6	True	25000.00	26027.16	104.1





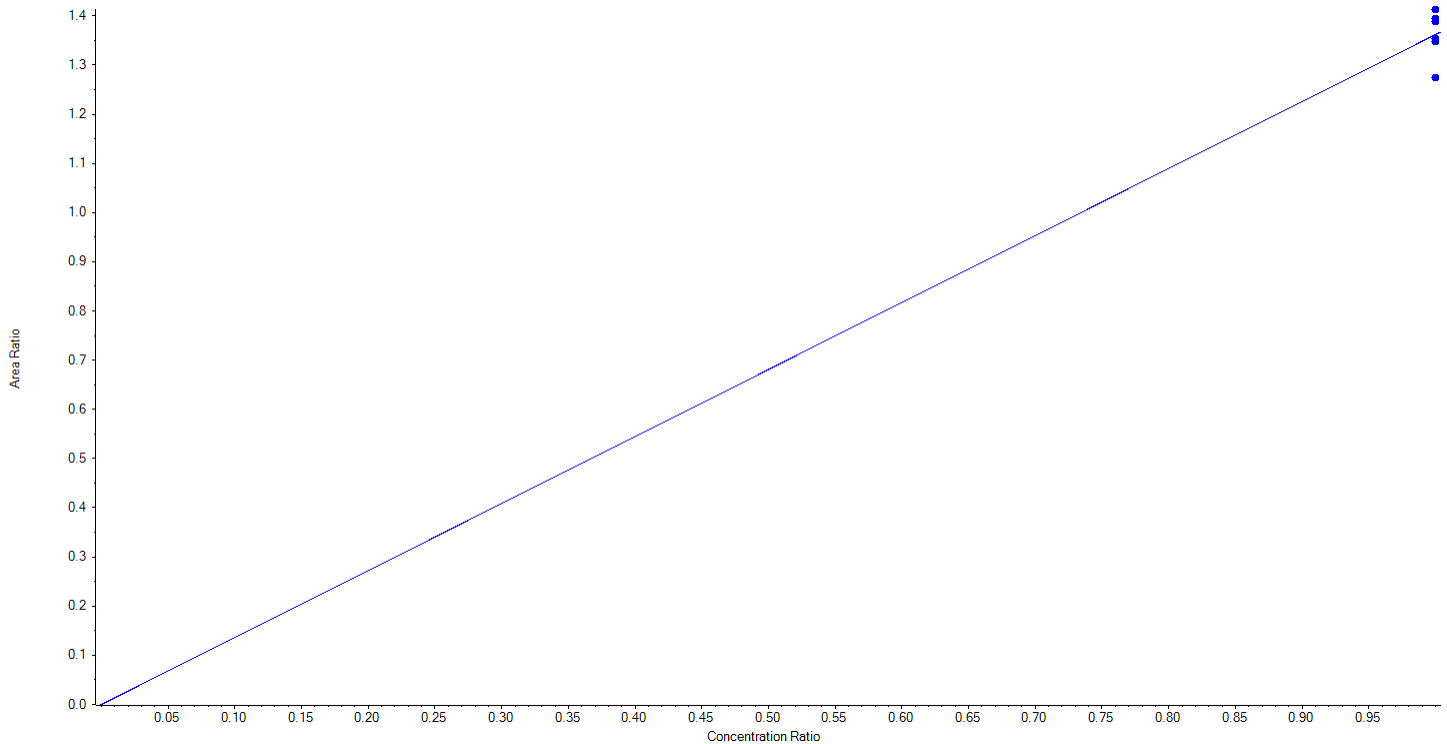
Calibration Summary Report

Created with Analyst Reporter
Printed: 04/11/2020 4:50:19 PM

Analyte Name	13C2-PFDoA	Data File	AE_10292020_5-369.wiff
MRM Transition	615.0 / 570.0	Result Table	20-1298_SIS
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.36190 x$ (std. dev. = 0.04987) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1250.00	1274.11	101.9
3	LD75	L2	True	1250.00	1236.72	98.9
4	LD76	L3	True	1250.00	1243.38	99.5
5	LD77	L4	True	1250.00	1168.88	93.5
6	LD78	L5	True	1250.00	1296.65	103.7
7	LD79	L6	True	1250.00	1280.25	102.4





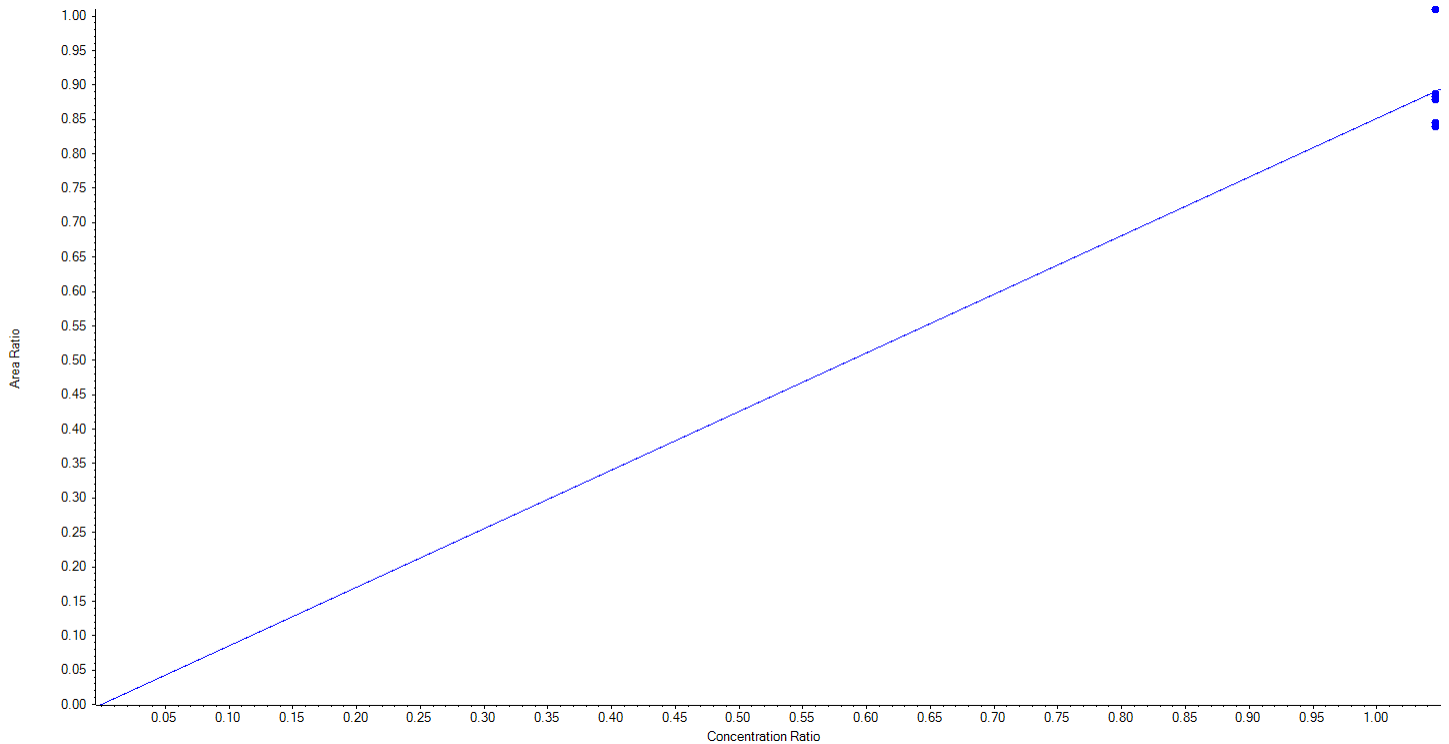
Calibration Summary Report

Created with Analyst Reporter
Printed: 04/11/2020 4:50:19 PM

Analyte Name	d3-MeFOSAA	Data File	AE_10292020_5-369.wiff
MRM Transition	573.0 / 419.0	Result Table	20-1298_SIS
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.85135x$ (std. dev. = 0.05899) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1250.00	1244.94	99.6
3	LD75	L2	True	1250.00	1233.23	98.7
4	LD76	L3	True	1250.00	1187.03	95.0
5	LD77	L4	True	1250.00	1177.70	94.2
6	LD78	L5	True	1250.00	1240.05	99.2
7	LD79	L6	True	1250.00	1417.05	113.4





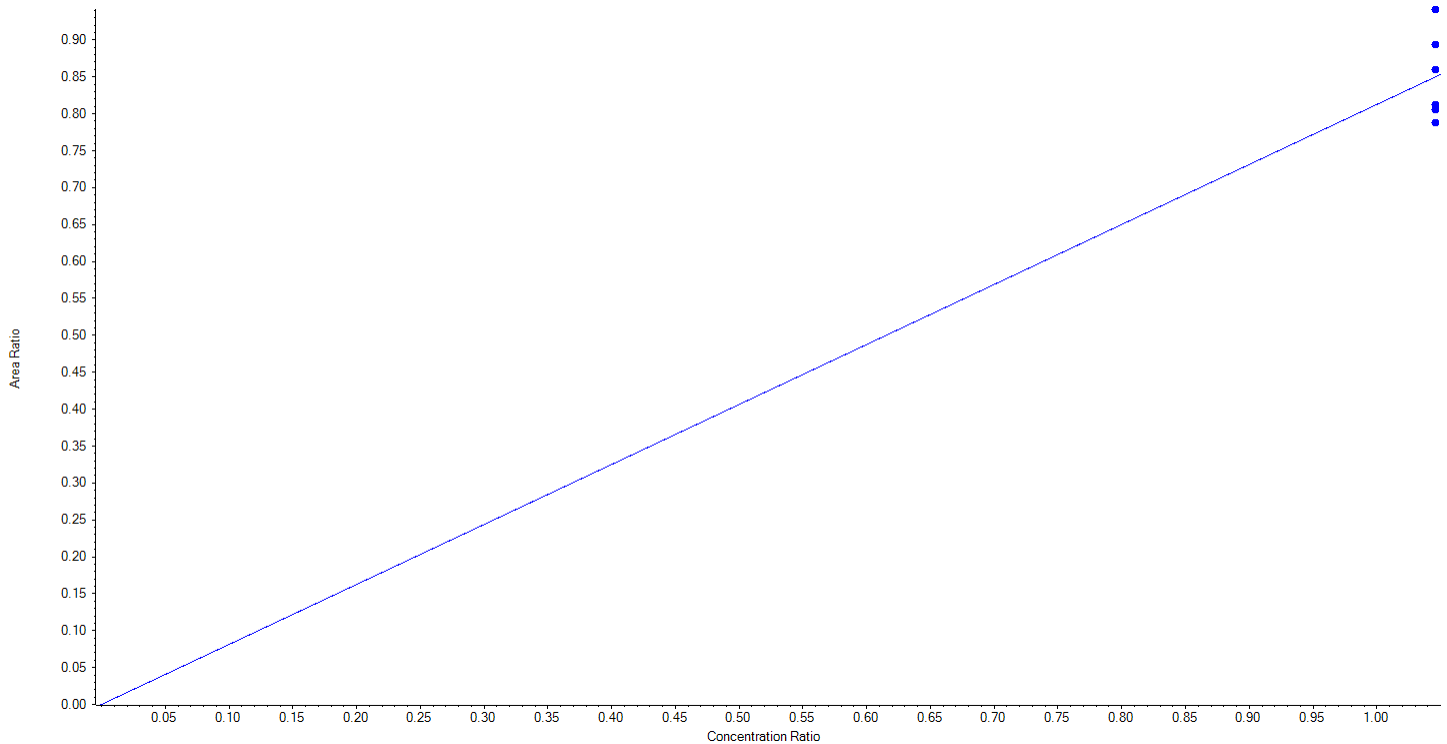
Calibration Summary Report

Created with Analyst Reporter
Printed: 04/11/2020 4:50:19 PM

Analyte Name	d5-EtFOSAA	Data File	AE_10292020_5-369.wiff
MRM Transition	589.0 / 419.0	Result Table	20-1298_SIS
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.81252 x$ (std. dev. = 0.05689) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1250.00	1384.10	110.7
3	LD75	L2	True	1250.00	1194.50	95.6
4	LD76	L3	True	1250.00	1263.84	101.1
5	LD77	L4	True	1250.00	1315.26	105.2
6	LD78	L5	True	1250.00	1184.25	94.7
7	LD79	L6	True	1250.00	1158.05	92.6





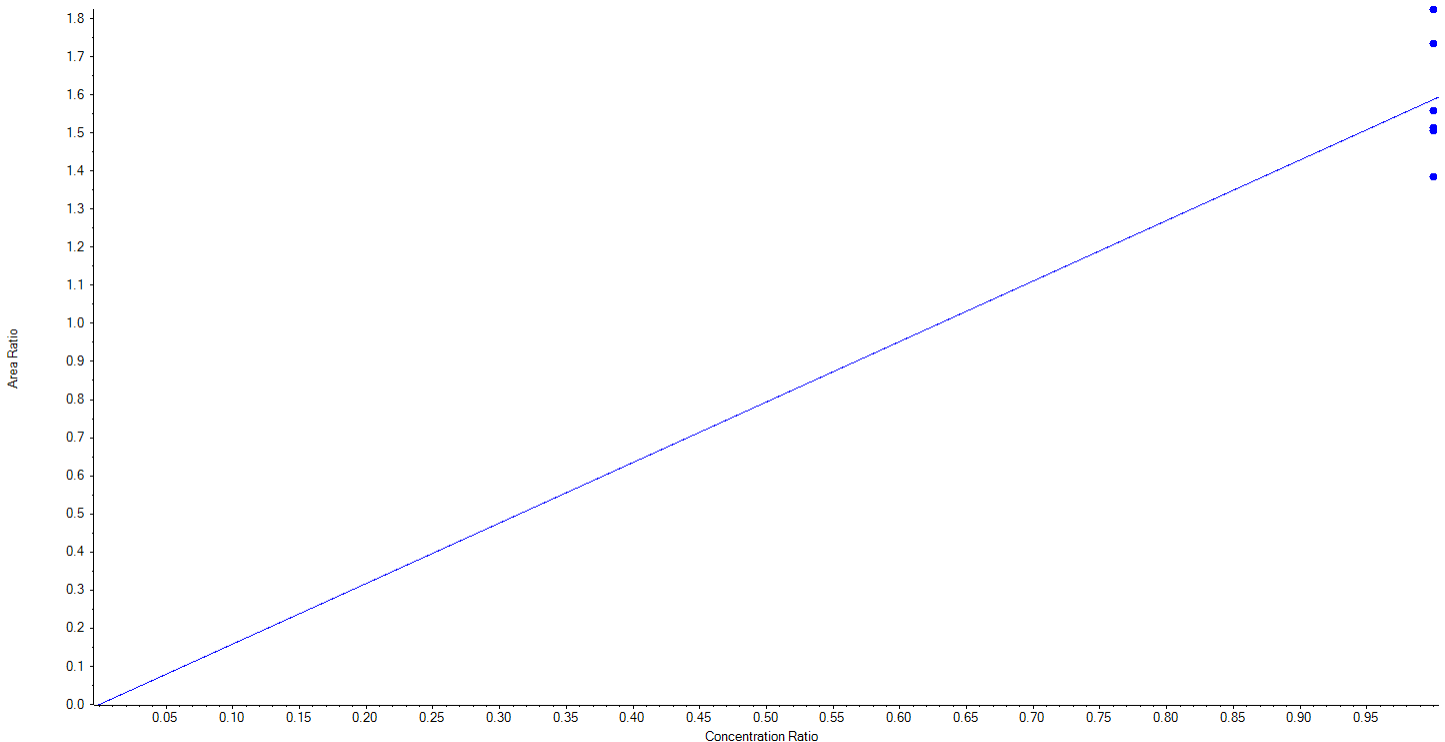
Calibration Summary Report

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Analyte Name	13C5-PFHxA	Data File	AE_10292020_5-369.wiff
MRM Transition	318.0 / 273.0	Result Table	20-1298_SIS
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.58743 x$ (std. dev. = 0.16178) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1250.00	1435.81	114.9
3	LD75	L2	True	1250.00	1186.39	94.9
4	LD76	L3	True	1250.00	1366.36	109.3
5	LD77	L4	True	1250.00	1227.88	98.2
6	LD78	L5	True	1250.00	1192.36	95.4
7	LD79	L6	True	1250.00	1091.19	87.3





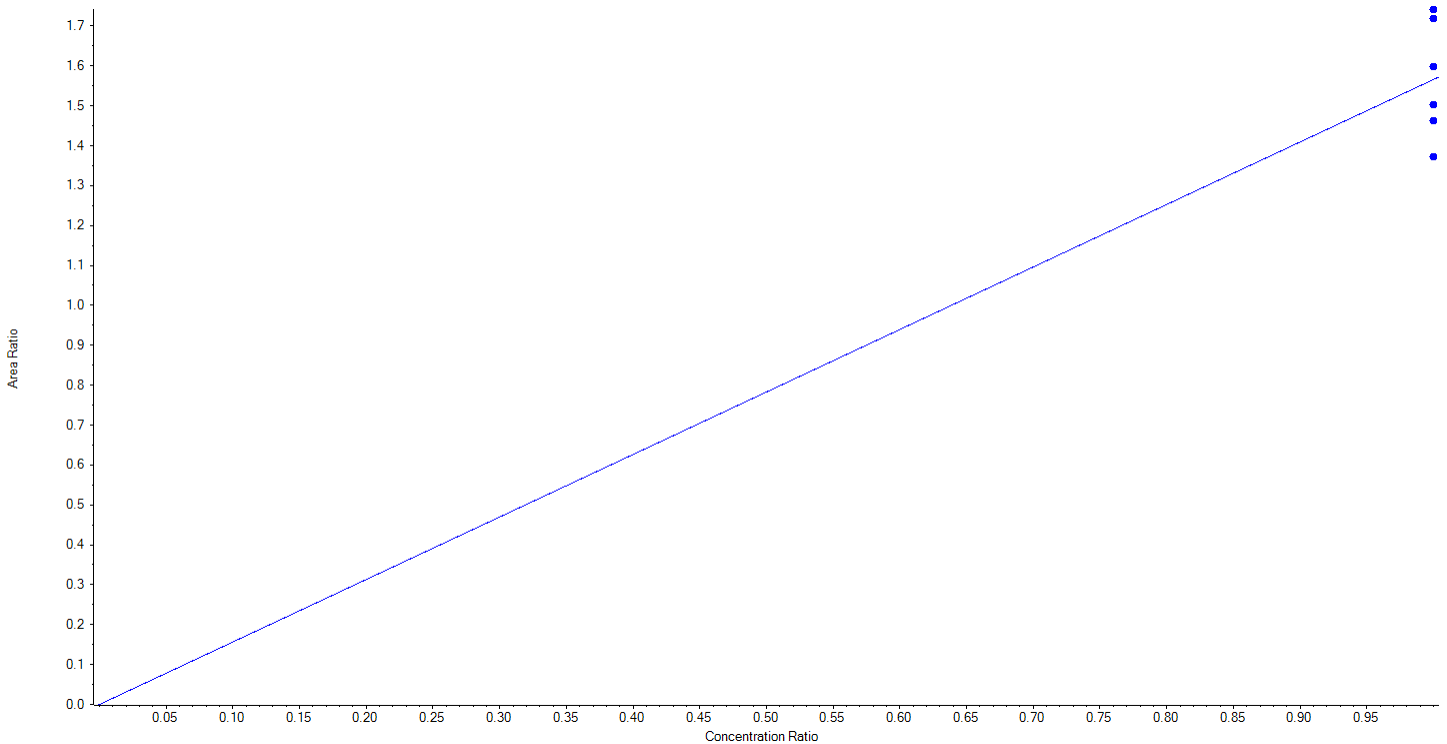
Calibration Summary Report

Created with Analyst Reporter
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Analyte Name	13C4-PFHpA	Data File	AE_10292020_5-369.wiff
MRM Transition	367.0 / 322.0	Result Table	20-1298_SIS
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.56591 x$ (std. dev. = 0.14655) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1250.00	1389.90	111.2
3	LD75	L2	True	1250.00	1275.37	102.0
4	LD76	L3	True	1250.00	1372.13	109.8
5	LD77	L4	True	1250.00	1199.95	96.0
6	LD78	L5	True	1250.00	1167.56	93.4
7	LD79	L6	True	1250.00	1095.09	87.6





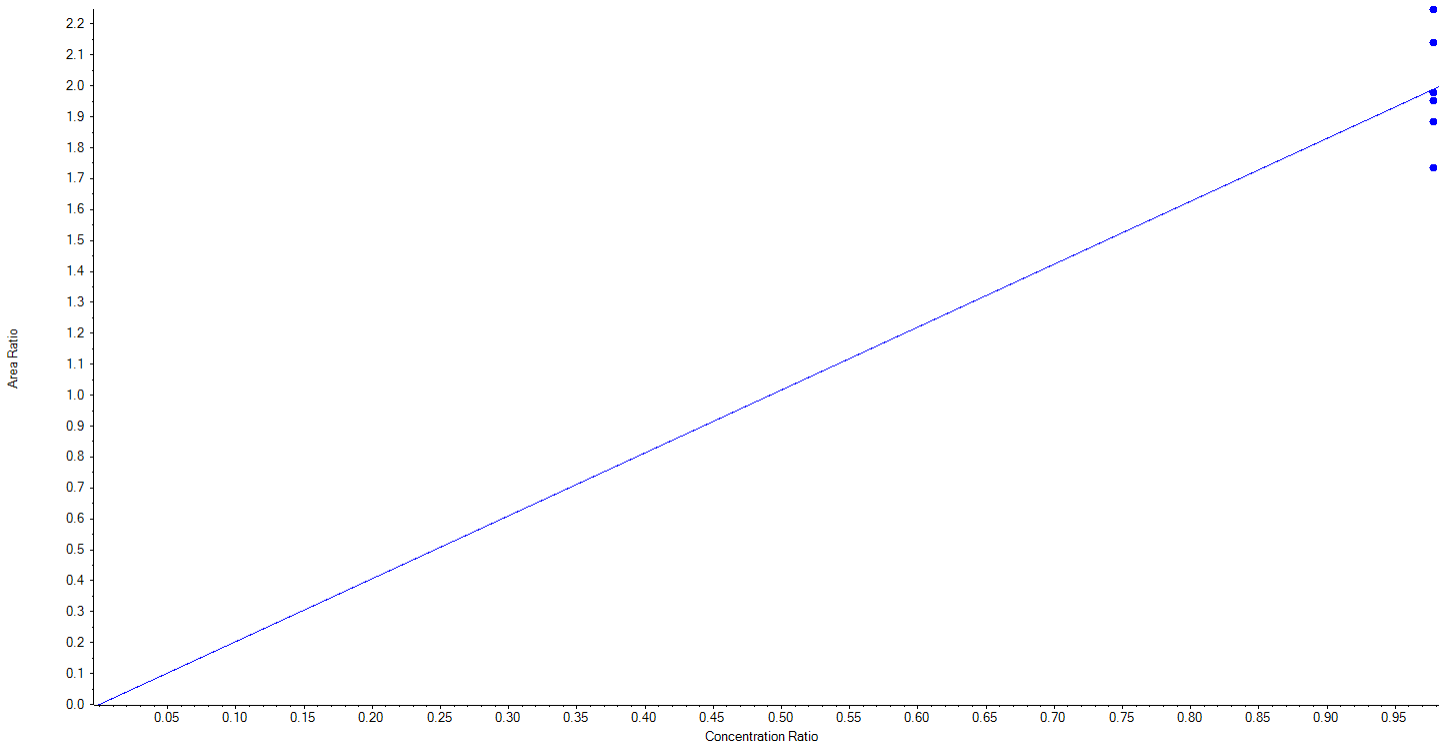
Calibration Summary Report

Created with Analyst Reporter
Printed: 04/11/2020 4:50:19 PM

Analyte Name	13C8-PFOA	Data File	AE_10292020_5-369.wiff
MRM Transition	421.0 / 376.0	Result Table	20-1298_SIS
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 2.03345 x$ (std. dev. = 0.18694) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1222.50	1381.00	113.0
3	LD75	L2	True	1222.50	1215.18	99.4
4	LD76	L3	True	1222.50	1315.71	107.6
5	LD77	L4	True	1222.50	1157.44	94.7
6	LD78	L5	True	1222.50	1199.83	98.2
7	LD79	L6	True	1222.50	1065.83	87.2





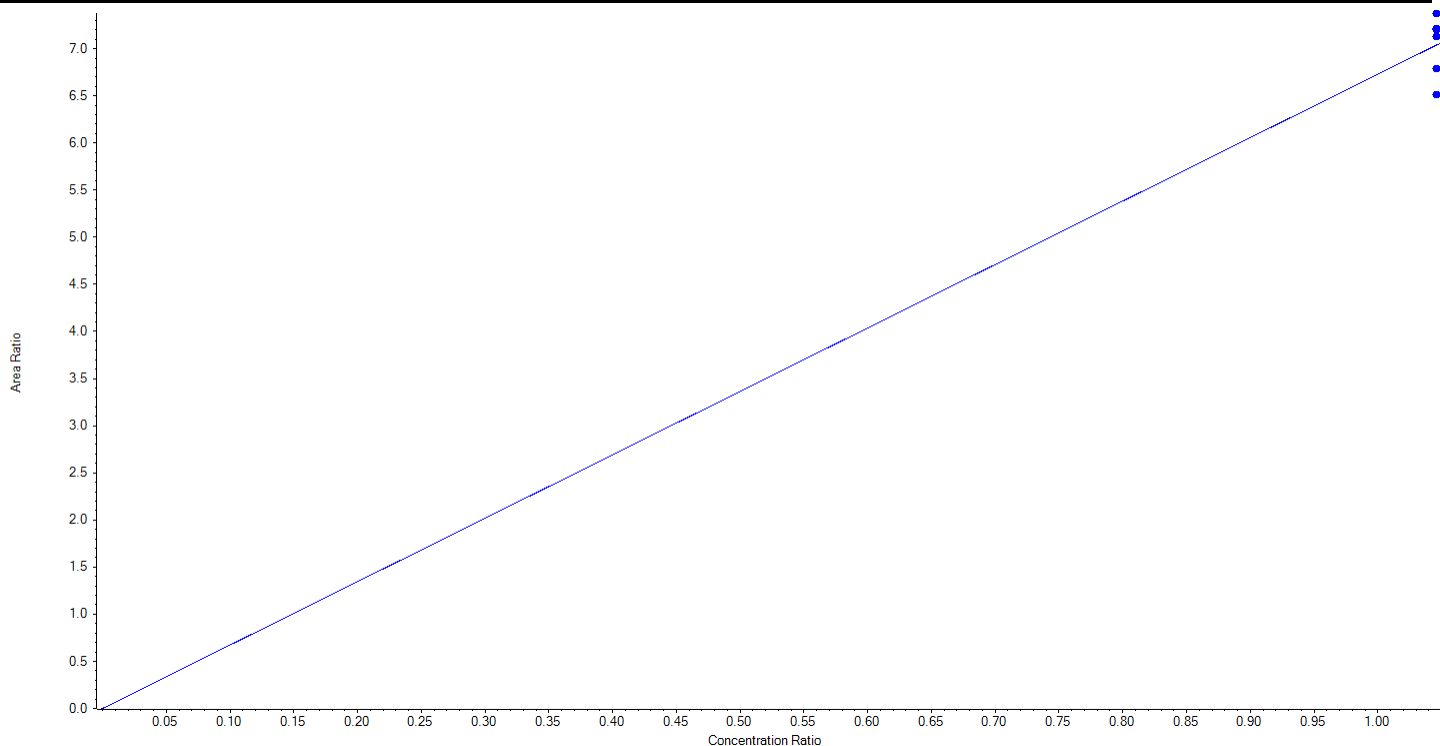
Calibration Summary Report

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Analyte Name	13C9-PFNA	Data File	AE_10292020_5-369.wiff
MRM Transition	472.0 / 427.0	Result Table	20-1298_SIS
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 6.72878 x$ (std. dev. = 0.30749) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1250.00	1279.57	102.4
3	LD75	L2	True	1250.00	1309.42	104.8
4	LD76	L3	True	1250.00	1206.42	96.5
5	LD77	L4	True	1250.00	1156.47	92.5
6	LD78	L5	True	1250.00	1266.83	101.4
7	LD79	L6	True	1250.00	1281.29	102.5





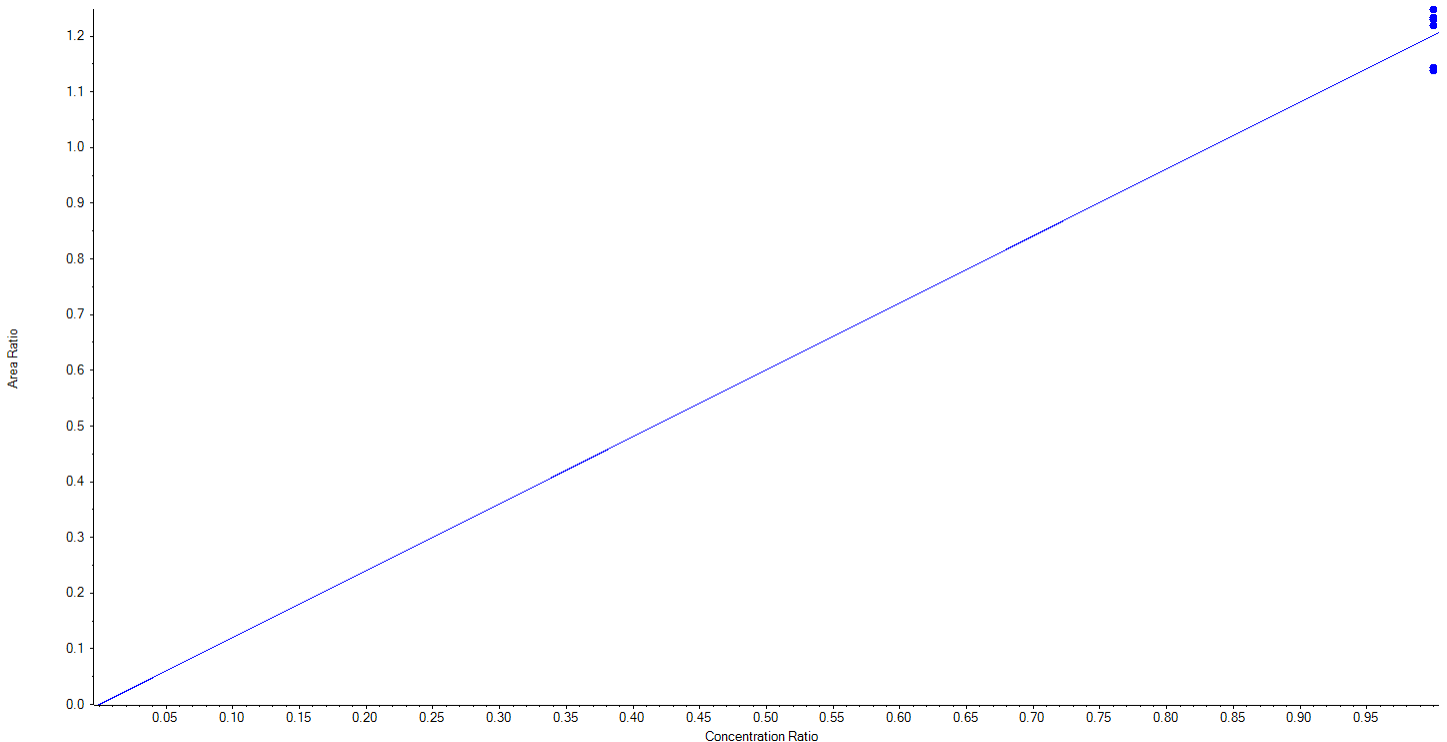
Calibration Summary Report

Created with Analyst Reporter
Printed: 04/11/2020 4:50:19 PM

Analyte Name	13C6-PFDA	Data File	AE_10292020_5-369.wiff
MRM Transition	519.0 / 474.0	Result Table	20-1298_SIS
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.20183 x$ (std. dev. = 0.04764) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1250.00	1266.92	101.4
3	LD75	L2	True	1250.00	1297.74	103.8
4	LD76	L3	True	1250.00	1282.01	102.6
5	LD77	L4	True	1250.00	1190.22	95.2
6	LD78	L5	True	1250.00	1278.63	102.3
7	LD79	L6	True	1250.00	1184.48	94.8





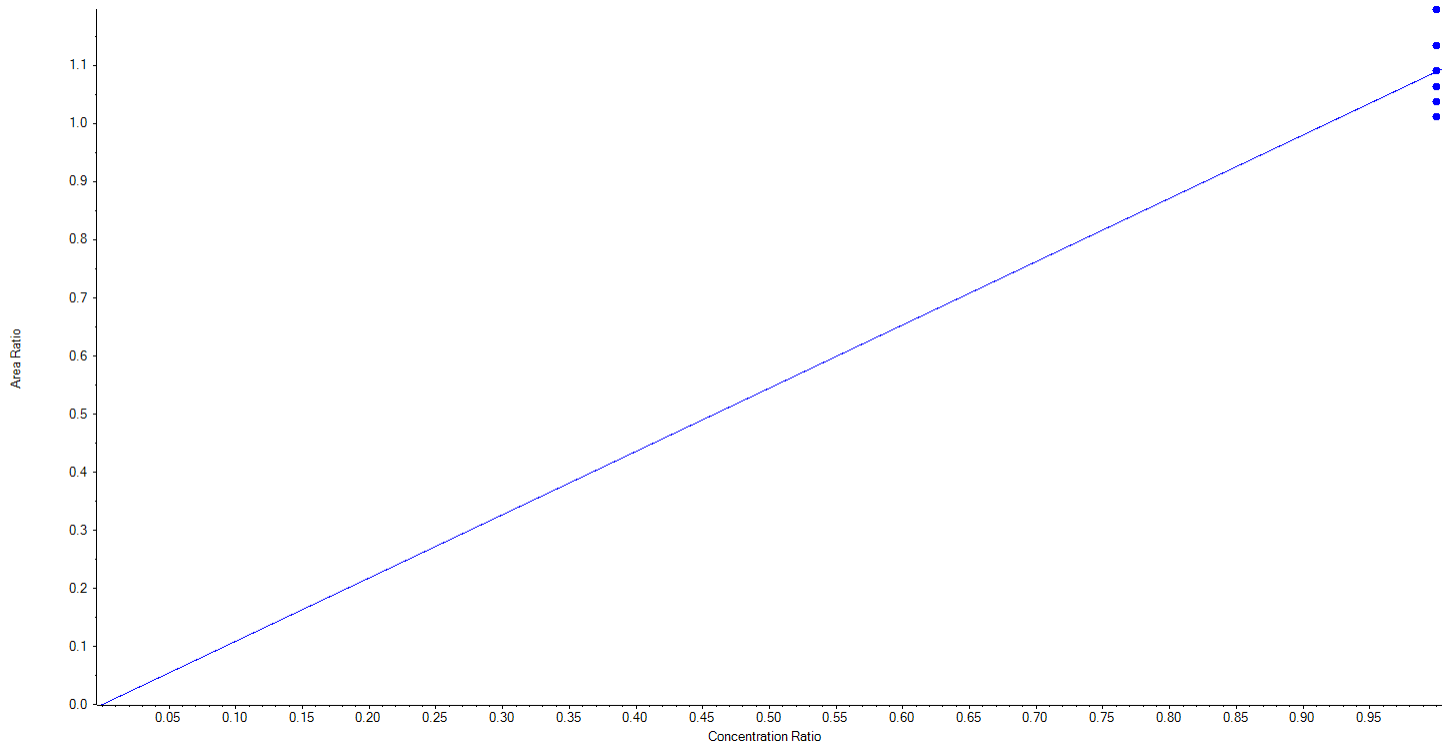
Calibration Summary Report

Created with Analyst Reporter
Printed: 04/11/2020 4:50:19 PM

Analyte Name	13C7-PFUnA	Data File	AE_10292020_5-369.wiff
MRM Transition	570.0 / 525.0	Result Table	20-1298_SIS
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.08920 x$ (std. dev. = 0.06738) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1250.00	1372.79	109.8
3	LD75	L2	True	1250.00	1219.94	97.6
4	LD76	L3	True	1250.00	1191.46	95.3
5	LD77	L4	True	1250.00	1301.97	104.2
6	LD78	L5	True	1250.00	1252.07	100.2
7	LD79	L6	True	1250.00	1161.76	92.9





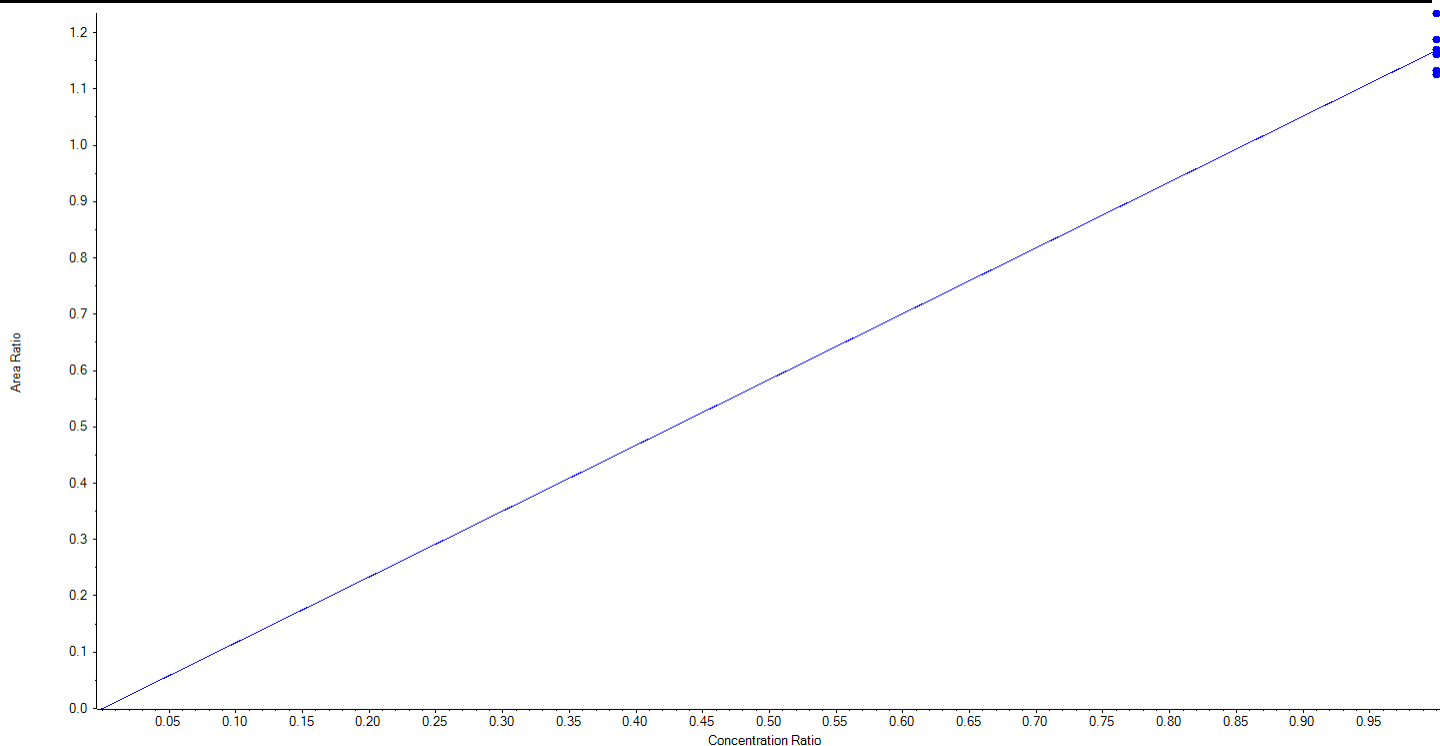
Calibration Summary Report

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Analyte Name	13C2-PFTeDA	Data File	AE_10292020_5-369.wiff
MRM Transition	715.0 / 670.0	Result Table	20-1298_SIS
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.16843 x$ (std. dev. = 0.03938) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1250.00	1250.61	100.1
3	LD75	L2	True	1250.00	1211.54	96.9
4	LD76	L3	True	1250.00	1242.87	99.4
5	LD77	L4	True	1250.00	1204.80	96.4
6	LD78	L5	True	1250.00	1319.92	105.6
7	LD79	L6	True	1250.00	1270.27	101.6





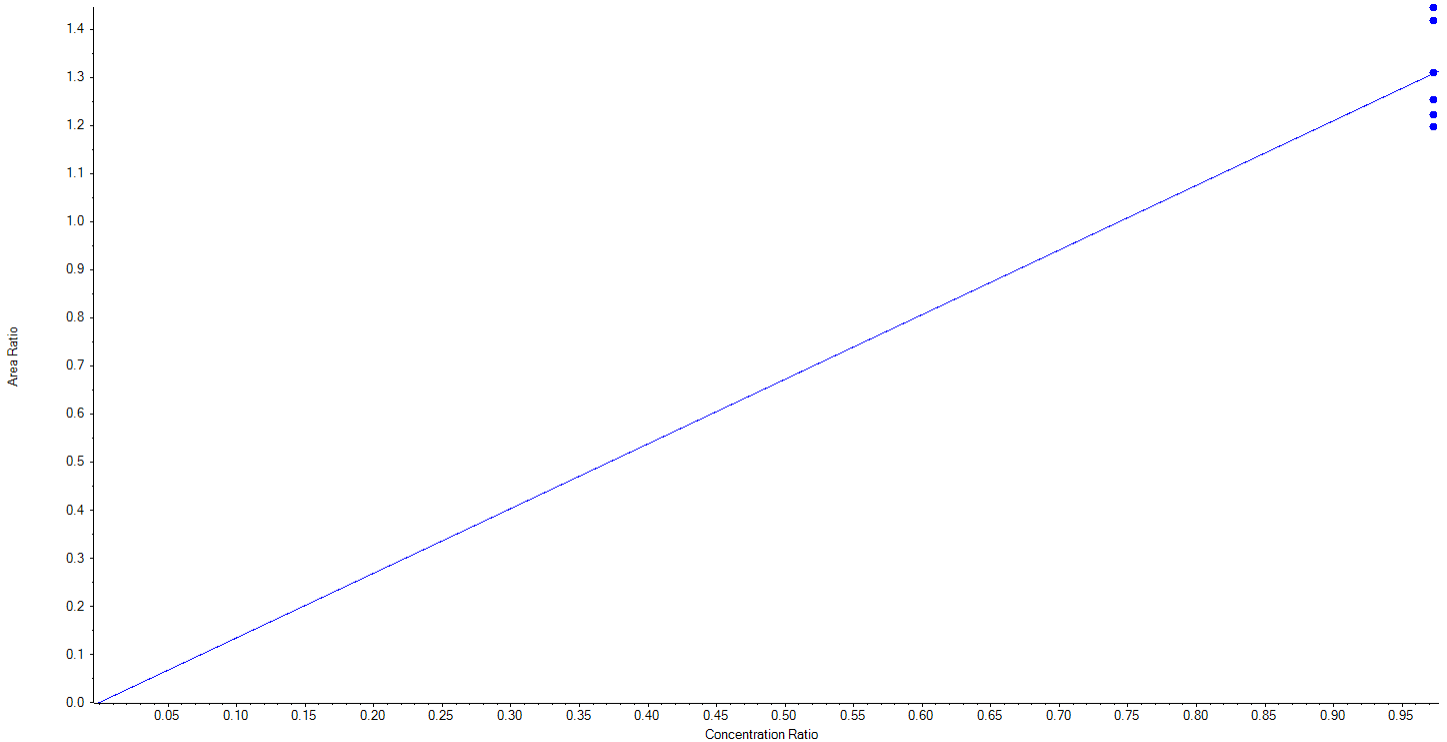
Calibration Summary Report

Created with Analyst Reporter
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Analyte Name	13C3-PFBS	Data File	AE_10292020_5-369.wiff
MRM Transition	302.0 / 99.0	Result Table	20-1298_SIS
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.34420 x$ (std. dev. = 0.10605) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1162.50	1114.55	95.9
3	LD75	L2	True	1162.50	1164.27	100.2
4	LD76	L3	True	1162.50	1087.10	93.5
5	LD77	L4	True	1162.50	1064.35	91.6
6	LD78	L5	True	1162.50	1260.15	108.4
7	LD79	L6	True	1162.50	1284.58	110.5





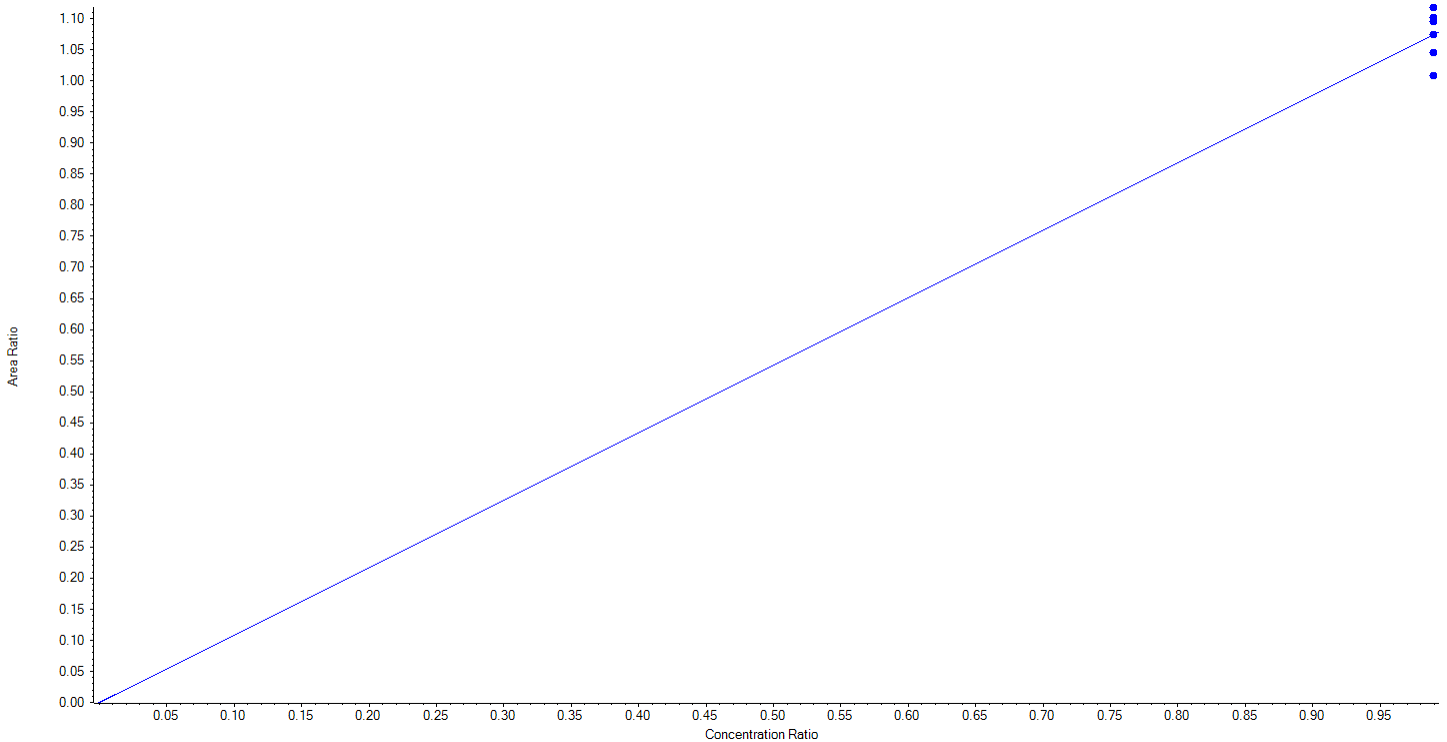
Calibration Summary Report

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Analyte Name	13C3-PFHxS	Data File	AE_10292020_5-369.wiff
MRM Transition	402.0 / 99.0	Result Table	20-1298_SIS
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.08535 x$ (std. dev. = 0.04104) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1182.50	1230.95	104.1
3	LD75	L2	True	1182.50	1183.55	100.1
4	LD76	L3	True	1182.50	1110.71	93.9
5	LD77	L4	True	1182.50	1212.59	102.5
6	LD78	L5	True	1182.50	1150.67	97.3
7	LD79	L6	True	1182.50	1206.52	102.0





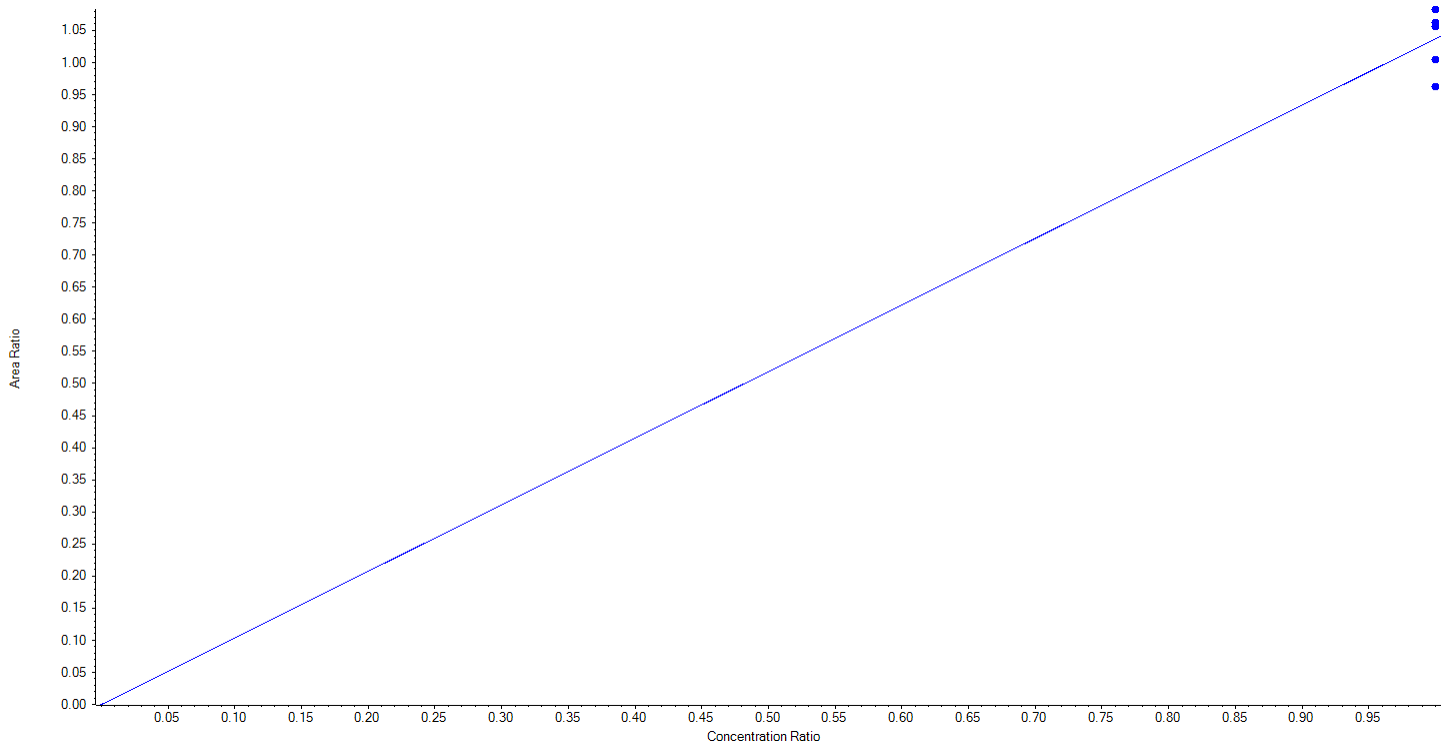
Calibration Summary Report

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Analyte Name	13C8-PFOS	Data File	AE_10292020_5-369.wiff
MRM Transition	507.0 / 99.0	Result Table	20-1298_SIS
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.03717 x$ (std. dev. = 0.04471) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1195.00	1223.60	102.4
3	LD75	L2	True	1195.00	1247.27	104.4
4	LD76	L3	True	1195.00	1109.44	92.8
5	LD77	L4	True	1195.00	1156.63	96.8
6	LD78	L5	True	1195.00	1216.71	101.8
7	LD79	L6	True	1195.00	1216.35	101.8





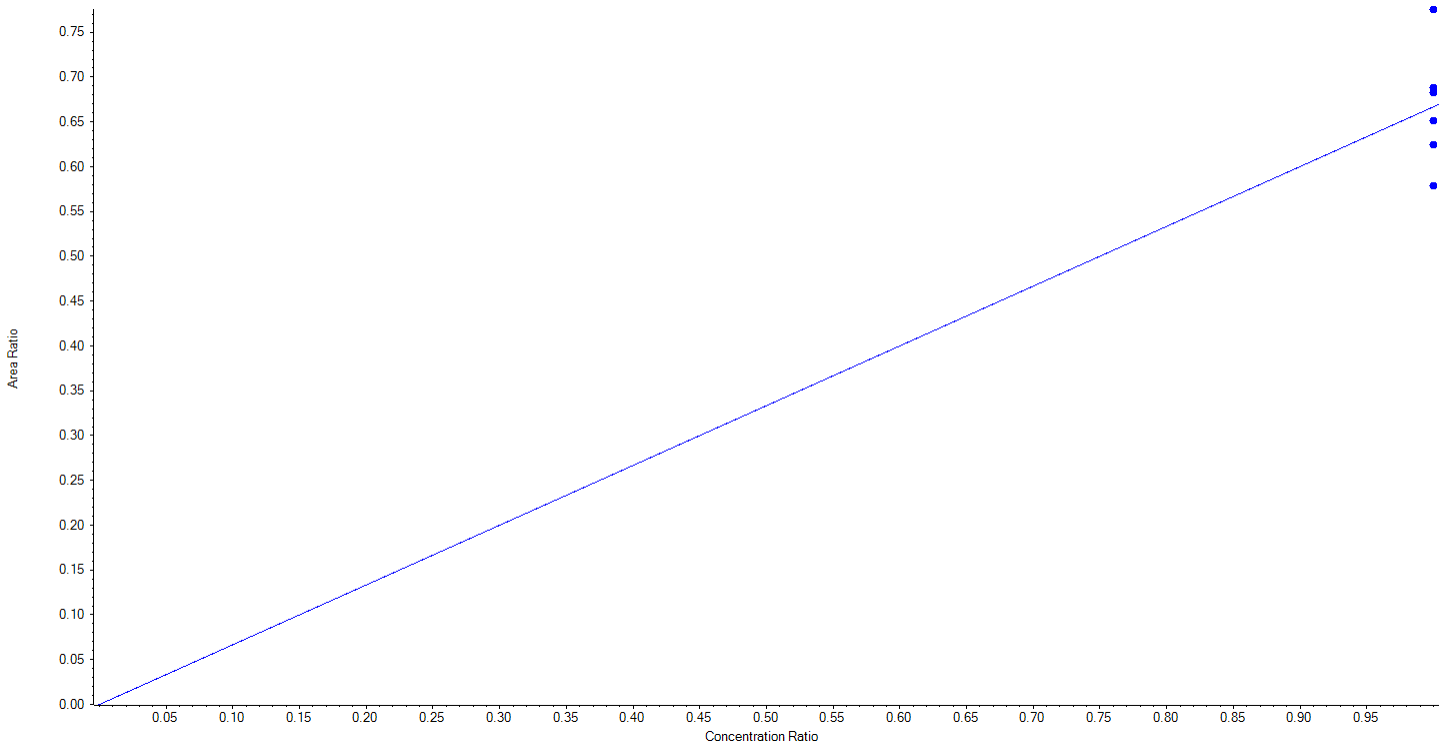
Calibration Summary Report

Created with Analyst Reporter
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Analyte Name	13C3-HFPO-DA	Data File	AE_10292020_5-369.wiff
MRM Transition	287.0 / 169.0	Result Table	20-1298_SIS
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.66678x$ (std. dev. = 0.06683) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	1250.00	1279.65	102.4
3	LD75	L2	True	1250.00	1084.35	86.8
4	LD76	L3	True	1250.00	1221.82	97.8
5	LD77	L4	True	1250.00	1170.37	93.6
6	LD78	L5	True	1250.00	1290.33	103.2
7	LD79	L6	True	1250.00	1453.47	116.3



Sample Name	LD74	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	184139.13	222.12	4883.4	False	13C3-PFBS	250934.51	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	57452.26	218.51	1260.1	False	13C3-PFBS	250934.51	1162.50	PFBS	0.312	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	352601.04	249.58	668.9	False	13C5-PFHxA	1263882.23	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	24554.27	284.08	507.1	False	13C5-PFHxA	1263882.23	1250.00	PFHxA	0.070	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	234139.41	206.84	419.6	False	13C4-PFHpA	1206883.20	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	5145.87	218.50	488.2	False	13C4-PFHpA	1206883.20	1250.00	PFHpA	0.022	0.029	✓
PFHxS_1	399.0 / 80.0	1.90	171866.97	245.70	771.1	False	13C3-PFHxS	223773.29	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	58609.65	243.31	535.3	False	13C3-PFHxS	223773.29	1182.50	PFHxS	0.341	0.345	✓
PFOA_1	413.0 / 369.0	2.25	293091.33	233.76	406.0	False	13C8-PFOA	1557192.68	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	30488.19	290.04	212.9	False	13C8-PFOA	1557192.68	1222.50	PFOA	0.104	0.096	✓
PFNA_1	463.0 / 419.0	2.62	256889.12	199.93	322.3	False	13C9-PFNA	1442100.54	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	98884.34	247.65	1581.2	False	13C9-PFNA	1442100.54	1250.00	PFNA	0.385	0.346	✓
PFOS_1	499.0 / 80.0	2.61	185959.54	263.38	418.7	False	13C8-PFOS	212563.00	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	37712.77	271.26	3087.5	False	13C8-PFOS	212563.00	1195.00	PFOS	0.203	0.202	✓
PFDA_1	513.0 / 469.0	2.97	267182.06	218.73	318.5	False	13C6-PFDA	1288070.41	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.97	12950.76	232.30	766.5	False	13C6-PFDA	1288070.41	1250.00	PFDA	0.048	0.055	✓
PFUnA_1	563.0 / 519.0	3.29	273423.01	222.35	433.4	False	13C7-PFUnA	1264907.08	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.29	15795.41	219.12	471.6	False	13C7-PFUnA	1264907.08	1250.00	PFUnA	0.058	0.063	✓
PFDoA_1	613.0 / 569.0	3.58	315857.57	208.72	594.6	False	13C2-PFDoA	1467915.08	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.58	39209.75	238.79	1000.0	False	13C2-PFDoA	1467915.08	1250.00	PFDoA	0.124	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.84	260224.05	215.78	923.1	False	13C2-PFTeDA	1233330.08	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.84	18602.19	241.37	638.0	False	13C2-PFTeDA	1233330.08	1250.00	PFTTrDA	0.071	0.071	✓
PFTeDA_1	713.0 / 669.0	4.07	300768.59	217.80	1610.1	False	13C2-PFTeDA	1233330.08	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.07	14323.88	234.40	898.7	False	13C2-PFTeDA	1233330.08	1250.00	PFTeDA	0.048	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.12	25632.16	263.60	652.6	False	d3-MeFOSAA	178449.60	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.11	29023.41	240.37	79949.5	False	d3-MeFOSAA	178449.60	1250.00	NMeFOSAA	1.132	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.28	39520.95	234.21	108795.1	False	d5-EtFOSAA	187131.65	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.28	1673.68	256.99	315375.2	False	d5-EtFOSAA	187131.65	1250.00	NEtFOSAA	0.042	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.65	295300.60	10.10	2402.5	True	13C3-HFPO-DA	473140.05	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	5348.34	< 0	236.2	False	13C3-HFPO-DA	473140.05	1250.00	HFPO-DA	0.018	0.021	✓
ADONA_1	377.0 / 251.0	1.93	627968.64	247.22	3317.9	False	13C8-PFOA	1557192.68	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	9058.37	250.81	936.9	False	13C8-PFOA	1557192.68	1222.50	ADONA	0.014	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.82	303890.50	268.01	895.7	False	13C8-PFOA	1557192.68	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.82	3648.20	264.50	2190.7	False	13C8-PFOA	1557192.68	1222.50	9CI-PF3ONS	0.012	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	242137.27	265.50	1339.8	False	13C8-PFOA	1557192.68	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	1706.25	297.53	465.2	False	13C8-PFOA	1557192.68	1222.50	11Cl-PF3OUdS	0.007	0.006	✓

Sample Name	LD75	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:18:08 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	345063.44	513.64	5701.4	False	13C3-PFBS	254612.56	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	113617.94	519.81	2205.5	False	13C3-PFBS	254612.56	1162.50	PFBS	0.329	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	642995.57	544.87	873.3	False	13C5-PFHxA	1176075.46	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	38969.41	530.31	782.6	False	13C5-PFHxA	1176075.46	1250.00	PFHxA	0.061	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	490841.08	514.89	832.5	False	13C4-PFHpA	1247135.81	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	16549.08	647.07	20633.6	True	13C4-PFHpA	1247135.81	1250.00	PFHpA	0.034	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	332327.43	541.32	998.8	False	13C3-PFHxS	208986.78	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	114207.31	539.50	843.8	False	13C3-PFHxS	208986.78	1182.50	PFHxS	0.344	0.345	✓
PFOA_1	413.0 / 369.0	2.26	610776.62	533.30	570.2	False	13C8-PFOA	1543072.23	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	48464.90	458.41	3482.3	False	13C8-PFOA	1543072.23	1222.50	PFOA	0.079	0.096	✓
PFNA_1	463.0 / 419.0	2.62	549761.84	519.67	534.9	False	13C9-PFNA	1433433.59	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	180442.62	498.61	3357.3	False	13C9-PFNA	1433433.59	1250.00	PFNA	0.328	0.346	✓
PFOS_1	499.0 / 80.0	2.62	339647.96	504.46	515.1	False	13C8-PFOS	210461.14	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	65634.99	485.65	23641.6	False	13C8-PFOS	210461.14	1195.00	PFOS	0.193	0.202	✓
PFDA_1	513.0 / 469.0	2.98	550472.33	526.64	490.3	False	13C6-PFDA	1305709.57	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	28891.36	522.18	1706.7	False	13C6-PFDA	1305709.57	1250.00	PFDA	0.052	0.055	✓
PFUnA_1	563.0 / 519.0	3.30	553345.42	539.12	673.5	False	13C7-PFUnA	1112397.39	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	37570.36	585.69	1494.9	False	13C7-PFUnA	1112397.39	1250.00	PFUnA	0.068	0.063	✓
PFDoA_1	613.0 / 569.0	3.59	647357.54	536.51	911.2	False	13C2-PFDoA	1410043.68	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	70355.57	494.25	1251.1	False	13C2-PFDoA	1410043.68	1250.00	PFDoA	0.109	0.119	✓
PFTeDA_1	663.0 / 619.0	3.84	522283.21	541.34	1600.4	False	13C2-PFTeDA	1182205.15	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.84	35143.87	519.16	1130.2	False	13C2-PFTeDA	1182205.15	1250.00	PFTeDA	0.067	0.071	✓
PFTeDA_1	713.0 / 669.0	4.07	585566.50	548.22	2528.6	False	13C2-PFTeDA	1182205.15	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.07	31327.89	557.15	1615.3	False	13C2-PFTeDA	1182205.15	1250.00	PFTeDA	0.054	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.12	49746.59	530.02	3883766.8	False	d3-MeFOSAA	170470.06	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	55030.09	528.60	16908.8	False	d3-MeFOSAA	170470.06	1250.00	NMeFOSAA	1.106	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.29	75047.44	590.36	207780.1	False	d5-EtFOSAA	158093.30	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.28	2889.58	474.32	414.2	False	d5-EtFOSAA	158093.30	1250.00	NEtFOSAA	0.039	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.66	579922.34	402.37	3364.7	False	13C3-HFPO-DA	451508.07	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	13477.57	472.28	3361.7	False	13C3-HFPO-DA	451508.07	1250.00	HFPO-DA	0.023	0.021	✓
ADONA_1	377.0 / 251.0	1.93	1227654.75	510.51	13701.3	False	13C8-PFOA	1543072.23	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	19718.65	557.33	20406.8	False	13C8-PFOA	1543072.23	1222.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.82	653089.32	533.43	1669.9	False	13C8-PFOA	1543072.23	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	6427.00	481.69	806.8	False	13C8-PFOA	1543072.23	1222.50	9CI-PF3ONS	0.010	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	468529.55	507.21	1365.1	False	13C8-PFOA	1543072.23	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	2749.88	509.35	419.6	False	13C8-PFOA	1543072.23	1222.50	11Cl-PF3OUdS	0.006	0.006	✓

Sample Name	LD76	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:28:36 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	636047.11	956.22	7938.2	False	13C3-PFBS	276703.25	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	215204.21	979.50	2207.3	False	13C3-PFBS	276703.25	1162.50	PFBS	0.338	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	1210098.87	956.98	1338.7	False	13C5-PFHxA	1314752.56	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	66236.18	840.07	810.5	False	13C5-PFHxA	1314752.56	1250.00	PFHxA	0.055	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	887780.33	959.57	772.7	False	13C4-PFHpA	1302395.93	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	21588.54	804.40	8194973.0	False	13C4-PFHpA	1302395.93	1250.00	PFHpA	0.024	0.029	✓
PFHxS_1	399.0 / 80.0	1.90	664777.98	1016.69	1062.6	False	13C3-PFHxS	228269.75	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	231074.04	1024.34	1336.7	False	13C3-PFHxS	228269.75	1182.50	PFHxS	0.348	0.345	✓
PFOA_1	413.0 / 369.0	2.26	1076972.52	920.40	688.0	False	13C8-PFOA	1621721.07	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	110197.56	978.57	1493.5	False	13C8-PFOA	1621721.07	1222.50	PFOA	0.102	0.096	✓
PFNA_1	463.0 / 419.0	2.62	1084941.69	1021.39	685.2	False	13C9-PFNA	1537139.83	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	346465.64	934.37	2770.9	False	13C9-PFNA	1537139.83	1250.00	PFNA	0.319	0.346	✓
PFOS_1	499.0 / 80.0	2.62	673255.23	986.01	617.7	False	13C8-PFOS	217887.69	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	136910.36	990.36	1672.1	False	13C8-PFOS	217887.69	1195.00	PFOS	0.203	0.202	✓
PFDA_1	513.0 / 469.0	2.98	969633.25	929.91	622.4	False	13C6-PFDA	1381121.72	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	58015.99	999.52	4488909.9	False	13C6-PFDA	1381121.72	1250.00	PFDA	0.060	0.055	✓
PFUnA_1	563.0 / 519.0	3.30	1093945.93	1037.97	1026.5	False	13C7-PFUnA	1163280.57	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	66552.26	989.29	1163.0	False	13C7-PFUnA	1163280.57	1250.00	PFUnA	0.061	0.063	✓
PFDoA_1	613.0 / 569.0	3.59	1194688.07	977.20	1083.1	False	13C2-PFDoA	1517916.72	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	139703.39	958.58	1789.5	False	13C2-PFDoA	1517916.72	1250.00	PFDoA	0.117	0.119	✓
PFTeDA_1	663.0 / 619.0	3.85	994260.45	998.96	2052.4	False	13C2-PFTeDA	1297640.34	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.84	68560.18	957.49	1618.9	False	13C2-PFTeDA	1297640.34	1250.00	PFTeDA	0.069	0.071	✓
PFTeDA_3	713.0 / 669.0	4.08	1054283.03	964.96	2599.0	False	13C2-PFTeDA	1297640.34	1250.00	PFTeDA			
PFTeDA_4	713.0 / 169.0	4.08	58590.21	961.56	2215.2	False	13C2-PFTeDA	1297640.34	1250.00	PFTeDA	0.056	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.12	92478.89	868.49	285932.1	False	d3-MeFOSAA	192637.20	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	103928.95	918.55	3888082.9	False	d3-MeFOSAA	192637.20	1250.00	NMeFOSAA	1.124	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.29	137954.50	904.09	54113.5	False	d5-EtFOSAA	195173.20	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.29	8114.71	1016.81	4272.8	False	d5-EtFOSAA	195173.20	1250.00	NEtFOSAA	0.059	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.66	1119530.78	986.14	4826.8	False	13C3-HFPO-DA	493825.52	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	22423.91	906.33	36349.6	False	13C3-HFPO-DA	493825.52	1250.00	HFPO-DA	0.020	0.021	✓
ADONA_1	377.0 / 251.0	1.93	2384257.60	963.24	59290.1	False	13C8-PFOA	1621721.07	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	31697.00	855.26	3008.8	False	13C8-PFOA	1621721.07	1222.50	ADONA	0.013	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	1200061.42	902.04	2340.9	False	13C8-PFOA	1621721.07	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	14660.42	1062.72	62519.1	False	13C8-PFOA	1621721.07	1222.50	9CI-PF3ONS	0.012	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	929628.34	947.10	2057.9	False	13C8-PFOA	1621721.07	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	4672.31	848.51	643.3	False	13C8-PFOA	1621721.07	1222.50	11Cl-PF3OUdS	0.005	0.006	✓

Sample Name	LD77	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:39:03 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	1641150.68	2820.80	14994.2	False	13C3-PFBS	261608.56	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	550229.90	2817.55	5997.1	False	13C3-PFBS	261608.56	1162.50	PFBS	0.335	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	2802627.55	2395.08	1695.8	False	13C5-PFHxA	1259980.51	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	175869.68	2442.45	1992.3	False	13C5-PFHxA	1259980.51	1250.00	PFHxA	0.063	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	2277034.98	2801.13	1299.2	False	13C4-PFHpA	1214619.59	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	64224.28	2531.81	45998.1	False	13C4-PFHpA	1214619.59	1250.00	PFHpA	0.028	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	1575528.15	2323.62	2541.6	False	13C3-PFHxS	240649.91	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	543703.00	2322.33	1935.9	False	13C3-PFHxS	240649.91	1182.50	PFHxS	0.345	0.345	✓
PFOA_1	413.0 / 369.0	2.26	2843826.30	2659.25	1062.9	False	13C8-PFOA	1521405.64	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	252381.08	2372.58	2726.4	False	13C8-PFOA	1521405.64	1222.50	PFOA	0.089	0.096	✓
PFNA_1	463.0 / 419.0	2.63	2649027.19	2820.84	1093.7	False	13C9-PFNA	1422887.92	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	883556.08	2666.48	7658.6	False	13C9-PFNA	1422887.92	1250.00	PFNA	0.334	0.346	✓
PFOS_1	499.0 / 80.0	2.62	1661085.12	2448.41	1311.9	False	13C8-PFOS	219354.94	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	336057.23	2431.43	9760.6	False	13C8-PFOS	219354.94	1195.00	PFOS	0.202	0.202	✓
PFDA_1	513.0 / 469.0	2.98	2536245.97	2833.26	1143.0	False	13C6-PFDA	1251935.03	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	134728.50	2574.92	5377.5	False	13C6-PFDA	1251935.03	1250.00	PFDA	0.053	0.055	✓
PFUnA_1	563.0 / 519.0	3.31	2692505.64	2422.01	1700.4	False	13C7-PFUnA	1241140.92	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	167952.07	2334.41	3707.7	False	13C7-PFUnA	1241140.92	1250.00	PFUnA	0.062	0.063	✓
PFDoA_1	613.0 / 569.0	3.60	2927493.84	2743.11	1856.9	False	13C2-PFDoA	1393242.67	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	349683.73	2709.99	2120.5	False	13C2-PFDoA	1393242.67	1250.00	PFDoA	0.119	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.85	2319334.66	2581.76	2216.8	False	13C2-PFTTeDA	1228276.70	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.85	169545.36	2573.69	2064.3	False	13C2-PFTTeDA	1228276.70	1250.00	PFTTrDA	0.073	0.071	✓
PFTTeDA_1	713.0 / 669.0	4.08	2562309.33	2638.59	3778.3	False	13C2-PFTTeDA	1228276.70	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.08	139849.53	2451.27	3081.9	False	13C2-PFTTeDA	1228276.70	1250.00	PFTTeDA	0.055	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.12	247927.87	2424.25	256493.1	False	d3-MeFOSAA	184284.90	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	262325.37	2509.28	8241582.9	False	d3-MeFOSAA	184284.90	1250.00	NMeFOSAA	1.058	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.29	347861.91	2358.57	2276.2	False	d5-EtFOSAA	195099.10	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.30	19030.07	2319.86	2526.3	False	d5-EtFOSAA	195099.10	1250.00	NEtFOSAA	0.055	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.65	2734115.10	2859.27	2485.2	True	13C3-HFPO-DA	504448.90	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	54775.95	2668.87	15625.4	False	13C3-HFPO-DA	504448.90	1250.00	HFPO-DA	0.020	0.021	✓
ADONA_1	377.0 / 251.0	1.93	5880144.27	2570.36	9252.9	False	13C8-PFOA	1521405.64	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	89431.99	2582.85	1902.2	False	13C8-PFOA	1521405.64	1222.50	ADONA	0.015	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	3102353.07	2413.87	2809.4	False	13C8-PFOA	1521405.64	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	29007.59	2257.72	19180.9	False	13C8-PFOA	1521405.64	1222.50	9CI-PF3ONS	0.009	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	2285273.51	2462.62	2754.0	False	13C8-PFOA	1521405.64	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	12440.22	2482.84	754.9	False	13C8-PFOA	1521405.64	1222.50	11Cl-PF3OUdS	0.005	0.006	✓

Sample Name	LD78	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:49:29 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	6291360.81	10170.48	75568.9	False	13C3-PFBS	286748.90	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	2058162.67	9853.95	8961.1	False	13C3-PFBS	286748.90	1162.50	PFBS	0.327	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	11226317.76	10618.29	3398.3	False	13C5-PFHxA	1159687.73	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	675816.52	10403.43	3902.2	False	13C5-PFHxA	1159687.73	1250.00	PFHxA	0.060	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	8196801.32	11202.55	2076.2	False	13C4-PFHpA	1120169.80	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	240046.88	10213.21	56187908.0	False	13C4-PFHpA	1120169.80	1250.00	PFHpA	0.029	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	6170334.81	10463.86	4306.7	False	13C3-PFHxS	211414.96	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	2152036.82	10565.89	6207.2	False	13C3-PFHxS	211414.96	1182.50	PFHxS	0.349	0.345	✓
PFOA_1	413.0 / 369.0	2.26	10712175.21	10302.18	1957.7	False	13C8-PFOA	1494829.51	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	1030439.50	9823.33	11868.0	False	13C8-PFOA	1494829.51	1222.50	PFOA	0.096	0.096	✓
PFNA_1	463.0 / 419.0	2.63	9707350.52	10395.03	1645.5	False	13C9-PFNA	1443012.79	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	3395852.50	10252.16	3761.8	False	13C9-PFNA	1443012.79	1250.00	PFNA	0.350	0.346	✓
PFOS_1	499.0 / 80.0	2.62	6721546.10	10242.62	2656.7	False	13C8-PFOS	213625.95	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	1390677.50	10369.54	3621.5	False	13C8-PFOS	213625.95	1195.00	PFOS	0.207	0.202	✓
PFDA_1	513.0 / 469.0	2.98	8992342.94	10315.61	1881.5	False	13C6-PFDA	1243773.52	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	518561.71	10001.95	3220.3	False	13C6-PFDA	1243773.52	1250.00	PFDA	0.058	0.055	✓
PFOA_1	563.0 / 519.0	3.31	10221211.87	10407.33	2521.2	False	13C7-PFOA	1103793.59	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.31	666581.00	10403.74	5671.0	False	13C7-PFOA	1103793.59	1250.00	PFOA	0.065	0.063	✓
PFOA_3	613.0 / 569.0	3.60	11187576.42	10437.66	2967.8	False	13C2-PFOA	1429297.40	1250.00	PFOA			
PFOA_4	613.0 / 319.0	3.60	1347241.42	10330.55	3697.3	False	13C2-PFOA	1429297.40	1250.00	PFOA	0.120	0.119	✓
PFTeDA_1	663.0 / 619.0	3.85	9266732.08	10433.92	3565.3	False	13C2-PFTeDA	1243049.70	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.85	670151.06	10181.97	2960.2	False	13C2-PFTeDA	1243049.70	1250.00	PFTeDA	0.072	0.071	✓
PFTeDA_3	713.0 / 669.0	4.08	9820641.06	10278.94	4217.1	False	13C2-PFTeDA	1243049.70	1250.00	PFTeDA			
PFTeDA_4	713.0 / 169.0	4.08	578348.28	10070.55	4664.5	False	13C2-PFTeDA	1243049.70	1250.00	PFTeDA	0.059	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.13	1065168.90	10680.61	4159.1	False	d3-MeFOSAA	179400.55	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	1096726.28	10948.74	3720.3	False	d3-MeFOSAA	179400.55	1250.00	NMeFOSAA	1.030	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.30	1267821.46	10473.27	2223.7	False	d5-EtFOSAA	162811.57	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.30	77901.96	11189.55	4092.3	False	d5-EtFOSAA	162811.57	1250.00	NEtFOSAA	0.061	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.65	10306989.03	11255.44	2812.9	True	13C3-HFPO-DA	527132.89	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	222044.52	11391.14	89356.9	False	13C3-HFPO-DA	527132.89	1250.00	HFPO-DA	0.022	0.021	✓
ADONA_1	377.0 / 251.0	1.93	22339046.62	10005.67	38004.3	False	13C8-PFOA	1494829.51	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	336036.82	9892.49	83747.2	False	13C8-PFOA	1494829.51	1222.50	ADONA	0.015	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	12540638.84	9803.67	4478.1	False	13C8-PFOA	1494829.51	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	126750.05	10091.40	1300.6	False	13C8-PFOA	1494829.51	1222.50	9CI-PF3ONS	0.010	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	8978641.67	9812.07	4698.2	False	13C8-PFOA	1494829.51	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	44200.05	9084.62	1854.3	False	13C8-PFOA	1494829.51	1222.50	11Cl-PF3OUdS	0.005	0.006	✓



Sample Name	LD79	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:59:58 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	13955233.01	24566.75	33327.0	False	13C3-PFBS	265166.46	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	4772923.53	24860.68	11186.2	False	13C3-PFBS	265166.46	1162.50	PFBS	0.342	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	24044140.54	24877.70	4697.8	False	13C5-PFHxA	1063443.58	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	1492267.53	25142.16	3862.5	False	13C5-PFHxA	1063443.58	1250.00	PFHxA	0.062	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	16135198.58	23565.03	3567.6	False	13C4-PFHpA	1052773.58	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	549085.68	24835.00	5011.0	False	13C4-PFHpA	1052773.58	1250.00	PFHpA	0.034	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	14027325.28	25051.32	7468.3	False	13C3-PFHxS	201093.40	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	4825399.49	24947.12	5453.8	False	13C3-PFHxS	201093.40	1182.50	PFHxS	0.344	0.345	✓
PFOA_1	413.0 / 369.0	2.26	22721024.38	24601.11	2415.1	False	13C8-PFOA	1330579.17	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	2366492.06	25327.07	3598.5	False	13C8-PFOA	1330579.17	1222.50	PFOA	0.104	0.096	✓
PFNA_1	463.0 / 419.0	2.63	20726410.21	24293.15	2695.0	False	13C9-PFNA	1323960.85	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	7469154.08	24650.74	9405.9	False	13C9-PFNA	1323960.85	1250.00	PFNA	0.360	0.346	✓
PFOS_1	499.0 / 80.0	2.62	14976576.83	25197.60	2664.7	False	13C8-PFOS	193732.59	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	3050024.50	25094.26	4964.7	False	13C8-PFOS	193732.59	1195.00	PFOS	0.204	0.202	✓
PFDA_1	513.0 / 469.0	2.98	18733549.94	24425.85	2242.1	False	13C6-PFDA	1099149.68	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	1141109.61	24919.14	8630.6	False	13C6-PFDA	1099149.68	1250.00	PFDA	0.061	0.055	✓
PFUnA_1	563.0 / 519.0	3.30	21379010.36	24621.23	3400.7	False	13C7-PFUnA	977034.09	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	1402143.55	24717.74	5992.7	False	13C7-PFUnA	977034.09	1250.00	PFUnA	0.066	0.063	✓
PFDoA_1	613.0 / 569.0	3.59	24472548.37	24346.80	3425.9	False	13C2-PFDoA	1346257.03	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	3002368.24	24517.84	5143.3	False	13C2-PFDoA	1346257.03	1250.00	PFDoA	0.123	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.85	19914550.30	24478.23	3781.0	False	13C2-PFTTeDA	1143782.22	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.85	1496620.46	24776.32	4054.3	False	13C2-PFTTeDA	1143782.22	1250.00	PFTTrDA	0.075	0.071	✓
PFTTeDA_1	713.0 / 669.0	4.08	21503050.19	24601.48	3660.7	False	13C2-PFTTeDA	1143782.22	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.08	1318409.34	24975.08	3895.2	False	13C2-PFTTeDA	1143782.22	1250.00	PFTTeDA	0.061	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.12	2531582.96	24483.04	3304.8	False	d3-MeFOSAA	185954.07	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	2496229.72	24104.45	3376.2	False	d3-MeFOSAA	185954.07	1250.00	NMeFOSAA	0.986	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.29	2668563.45	24689.49	2226.9	False	d5-EtFOSAA	145778.58	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.29	149910.47	23992.48	5941.8	False	d5-EtFOSAA	145778.58	1250.00	NEtFOSAA	0.056	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.66	23893553.14	23496.78	15412.0	False	13C3-HFPO-DA	594985.01	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	510179.26	23561.38	1367.3	False	13C3-HFPO-DA	594985.01	1250.00	HFPO-DA	0.021	0.021	✓
ADONA_1	377.0 / 251.0	1.93	49520176.85	24952.99	33915.8	False	13C8-PFOA	1330579.17	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	759027.55	25111.26	19419.0	False	13C8-PFOA	1330579.17	1222.50	ADONA	0.015	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	28914241.11	25328.99	8299.6	False	13C8-PFOA	1330579.17	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	280286.52	25091.98	533966.4	False	13C8-PFOA	1330579.17	1222.50	9CI-PF3ONS	0.010	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	20586118.49	25255.50	7647.0	False	13C8-PFOA	1330579.17	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	112390.96	26027.16	1845.0	False	13C8-PFOA	1330579.17	1222.50	11Cl-PF3OUdS	0.005	0.006	✓

Sample Name	LD74	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.58	1467915.08	1274.11	5069.6	False	13C2-PFDA	1057440.61	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	177522.63	1244.94	1556.8	False	13C4-PFOS	200153.85	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	188364.27	1384.10	946.7	False	13C4-PFOS	200153.85	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1263882.23	1435.81	8470.9	False	13C2-PFOA	693146.99	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	1206883.20	1389.90	31137843.6	False	13C2-PFOA	693146.99	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1557192.68	1381.00	27019.7	False	13C2-PFOA	693146.99	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1442100.54	1279.57	27851.3	False	13C4-PFOS	200153.85	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1288070.41	1266.92	6035.5	False	13C2-PFDA	1057440.61	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	1264907.08	1372.79	6593.4	False	13C2-PFDA	1057440.61	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1236155.13	1250.61	4139.4	True	13C2-PFDA	1057440.61	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	250934.51	1114.55	11448.6	False	13C4-PFOS	200153.85	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	223773.29	1230.95	9264004.6	False	13C4-PFOS	200153.85	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	212563.00	1223.60	1644.3	False	13C4-PFOS	200153.85	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	473140.05	1279.65	6929.1	False	13C2-PFOA	693146.99	1250.00		N/A	N/A	✓

Sample Name	LD75	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:18:08 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	1410043.68	1236.72	3627.8	False	13C2-PFDA	1046464.52	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	170811.50	1233.23	1467.1	False	13C4-PFOS	194414.86	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	157900.01	1194.50	1292.2	False	13C4-PFOS	194414.86	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1176075.46	1186.39	8796.8	False	13C2-PFOA	780590.21	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1247135.81	1275.37	143796.9	False	13C2-PFOA	780590.21	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1543072.23	1215.18	192385.6	False	13C2-PFOA	780590.21	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1433433.59	1309.42	4296.0	False	13C4-PFOS	194414.86	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1305709.57	1297.74	8672.3	False	13C2-PFDA	1046464.52	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	1112397.39	1219.94	4325.1	False	13C2-PFDA	1046464.52	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1185100.97	1211.54	3977.9	True	13C2-PFDA	1046464.52	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	254612.56	1164.27	6502.9	False	13C4-PFOS	194414.86	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	208986.78	1183.55	33480.5	False	13C4-PFOS	194414.86	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	210461.14	1247.27	2038.7	False	13C4-PFOS	194414.86	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	451508.07	1084.35	13900.9	False	13C2-PFOA	780590.21	1250.00		N/A	N/A	✓

Sample Name	LD76	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:28:36 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	1517916.72	1243.38	5155.0	False	13C2-PFDA	1120485.31	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	191358.72	1187.03	1203.7	False	13C4-PFOS	226279.78	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	194449.42	1263.84	1348.2	False	13C4-PFOS	226279.78	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1314752.56	1366.36	12734.0	False	13C2-PFOA	757693.03	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1302395.93	1372.13	1235847.8	False	13C2-PFOA	757693.03	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1621721.07	1315.71	24743962.2	False	13C2-PFOA	757693.03	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1537139.83	1206.42	8182.5	False	13C4-PFOS	226279.78	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1381121.72	1282.01	90467.6	False	13C2-PFDA	1120485.31	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1163280.57	1191.46	5884.4	False	13C2-PFDA	1120485.31	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1301739.94	1242.87	4646.2	True	13C2-PFDA	1120485.31	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	276703.25	1087.10	7044.3	False	13C4-PFOS	226279.78	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	228269.75	1110.71	29590.9	False	13C4-PFOS	226279.78	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	217887.69	1109.44	1746.1	False	13C4-PFOS	226279.78	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	493825.52	1221.82	5176.7	False	13C2-PFOA	757693.03	1250.00		N/A	N/A	✓

Sample Name	LD77	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:39:03 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	1393242.67	1168.88	5494.9	False	13C2-PFDA	1094011.01	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	183335.37	1177.70	1117.2	False	13C4-PFOS	218508.68	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	195411.06	1315.26	1053.1	False	13C4-PFOS	218508.68	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1259980.51	1227.88	10385.7	False	13C2-PFOA	808019.77	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1214619.59	1199.95	13744013.4	False	13C2-PFOA	808019.77	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1521405.64	1157.44	6256.1	False	13C2-PFOA	808019.77	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1422887.92	1156.47	3769.3	False	13C4-PFOS	218508.68	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1251935.03	1190.22	4724.0	False	13C2-PFDA	1094011.01	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1241140.92	1301.97	4984.7	False	13C2-PFDA	1094011.01	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1232053.65	1204.80	4005.5	True	13C2-PFDA	1094011.01	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	261608.56	1064.35	8242.9	False	13C4-PFOS	218508.68	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	240649.91	1212.59	2106740.4	False	13C4-PFOS	218508.68	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	219354.94	1156.63	1731.2	False	13C4-PFOS	218508.68	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	504448.90	1170.37	7542.9	False	13C2-PFOA	808019.77	1250.00		N/A	N/A	✓

Sample Name	LD78	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:49:29 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	1429297.40	1296.65	4940.6	False	13C2-PFDA	1011724.54	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	178716.46	1240.05	1366.8	False	13C4-PFOS	202293.56	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	162888.88	1184.25	1315.0	False	13C4-PFOS	202293.56	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1159687.73	1192.36	8382.4	False	13C2-PFOA	765858.22	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1120169.80	1167.56	19527.4	False	13C2-PFOA	765858.22	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1494829.51	1199.83	502573.1	False	13C2-PFOA	765858.22	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1443012.79	1266.83	1327.2	False	13C4-PFOS	202293.56	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1243773.52	1278.63	3482.5	False	13C2-PFDA	1011724.54	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1103793.59	1252.07	4569.6	False	13C2-PFDA	1011724.54	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1248259.53	1319.92	4390.7	True	13C2-PFDA	1011724.54	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	286748.90	1260.15	25442.9	False	13C4-PFOS	202293.56	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	211414.96	1150.67	33051.5	False	13C4-PFOS	202293.56	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	213625.95	1216.71	1330.1	False	13C4-PFOS	202293.56	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	527132.89	1290.33	11436.0	False	13C2-PFOA	765858.22	1250.00		N/A	N/A	✓

Sample Name	LD79	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:59:58 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	1346257.03	1280.25	4207.8	False	13C2-PFDA	965151.31	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	185263.10	1417.05	1019.8	False	13C4-PFOS	183510.52	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	144495.86	1158.05	1343.2	False	13C4-PFOS	183510.52	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1063443.58	1091.19	11049.7	False	13C2-PFOA	767411.77	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1052773.58	1095.09	101765.1	False	13C2-PFOA	767411.77	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1330579.17	1065.83	32873.4	False	13C2-PFOA	767411.77	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1323960.85	1281.29	13095.5	False	13C4-PFOS	183510.52	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1099149.68	1184.48	5155.2	False	13C2-PFDA	965151.31	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	977034.09	1161.76	4230.8	False	13C2-PFDA	965151.31	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1145997.88	1270.27	4612.6	True	13C2-PFDA	965151.31	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	265166.46	1284.58	39743.5	False	13C4-PFOS	183510.52	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	201093.40	1206.52	7423.9	False	13C4-PFOS	183510.52	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	193732.59	1216.35	1681.7	False	13C4-PFOS	183510.52	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	594985.01	1453.47	60467.4	False	13C2-PFOA	767411.77	1250.00		N/A	N/A	✓

Sample Name	LD81 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 4:20:54 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	3000.19	2500.00	120.01
PFBS_2	298.9 / 99.0	1.32	3035.90	2500.00	121.44
PFHxA_1	313.0 / 269.0	1.57	2601.67	2525.00	103.04
PFHxA_2	313.0 / 119.0	1.56	2555.38	2525.00	101.20
PFHpA_1	363.0 / 319.0	1.90	2529.25	2500.00	101.17
PFHpA_2	363.0 / 169.0	1.90	2400.58	2500.00	96.02
PFHxS_1	399.0 / 80.0	1.90	2661.03	2525.00	105.39
PFHxS_2	399.0 / 99.0	1.90	2881.65	2525.00	114.12
PFOA_1	413.0 / 369.0	2.26	2598.17	2500.00	103.93
PFOA_2	413.0 / 169.0	2.25	2685.82	2500.00	107.43
PFNA_1	463.0 / 419.0	2.62	2739.79	2500.00	109.59
PFNA_2	463.0 / 219.0	2.62	2634.70	2500.00	105.39
PFOS_1	499.0 / 80.0	2.62	2606.15	2525.00	103.21
PFOS_2	499.0 / 99.0	2.62	2637.86	2525.00	104.47
PFDA_1	513.0 / 469.0	2.98	2801.52	2500.00	112.06
PFDA_2	513.0 / 219.0	2.98	2809.09	2500.00	112.36
PFUnA_1	563.0 / 519.0	3.30	2562.04	2500.00	102.48
PFUnA_2	563.0 / 269.0	3.30	2409.71	2500.00	96.39
PFDoA_1	613.0 / 569.0	3.59	2996.78	2500.00	119.87
PFDoA_2	613.0 / 319.0	3.59	2764.60	2500.00	110.58
PFTrDA_1	663.0 / 619.0	3.85	2778.84	2500.00	111.15
PFTrDA_2	663.0 / 169.0	3.84	2656.66	2500.00	106.27
PFTeDA_1	713.0 / 669.0	4.08	2834.65	2500.00	113.39
PFTeDA_2	713.0 / 169.0	4.07	2693.39	2500.00	107.74
NMeFOSAA_1	570.0 / 419.0	3.12	2577.95	2500.00	103.12
NMeFOSAA_2	570.0 / 512.0	3.12	2731.06	2500.00	109.24
NEtFOSAA_1	584.0 / 419.0	3.29	2412.94	2500.00	96.52
NEtFOSAA_2	584.0 / 483.0	3.29	2561.22	2500.00	102.45
HFPO-DA_1	285.0 / 169.0	1.65	3013.68	2500.00	120.55
HFPO-DA_2	285.0 / 118.8	1.65	2508.83	2500.00	100.35
ADONA_1	377.0 / 251.0	1.93	2725.85	2500.00	109.03
ADONA_2	377.0 / 85.0	1.93	2842.82	2500.00	113.71
9Cl-PF3ONS_1	531.0 / 351.0	2.83	2648.94	2500.00	105.96
9Cl-PF3ONS_2	531.0 / 83.0	2.82	2763.41	2500.00	110.54
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	2556.44	2500.00	102.26
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	2308.08	2500.00	92.32

Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 9:34:18 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.35	1037.17	1000.00	103.72
PFBS_2	298.9 / 99.0	1.35	1043.86	1000.00	104.39
PFHxA_1	313.0 / 269.0	1.62	1063.20	1010.00	105.27
PFHxA_2	313.0 / 119.0	1.62	982.21	1010.00	97.25
PFHpA_1	363.0 / 319.0	1.97	1054.29	1000.00	105.43
PFHpA_2	363.0 / 169.0	1.97	843.77	1000.00	84.38
PFHxS_1	399.0 / 80.0	1.97	909.98	1010.00	90.10
PFHxS_2	399.0 / 99.0	1.97	975.34	1010.00	96.57
PFOA_1	413.0 / 369.0	2.34	913.96	1000.00	91.40
PFOA_2	413.0 / 169.0	2.34	905.73	1000.00	90.57
PFNA_1	463.0 / 419.0	2.73	997.01	1000.00	99.70
PFNA_2	463.0 / 219.0	2.73	934.24	1000.00	93.42
PFOS_1	499.0 / 80.0	2.72	896.93	1010.00	88.81
PFOS_2	499.0 / 99.0	2.72	919.53	1010.00	91.04
PFDA_1	513.0 / 469.0	3.09	1024.10	1000.00	102.41
PFDA_2	513.0 / 219.0	3.09	1005.00	1000.00	100.50
PFUnA_1	563.0 / 519.0	3.43	967.60	1000.00	96.76
PFUnA_2	563.0 / 269.0	3.43	883.64	1000.00	88.36
PFDoA_1	613.0 / 569.0	3.73	1008.96	1000.00	100.90
PFDoA_2	613.0 / 319.0	3.73	942.34	1000.00	94.23
PFTrDA_1	663.0 / 619.0	3.99	849.58	1000.00	84.96
PFTrDA_2	663.0 / 169.0	3.99	825.75	1000.00	82.57
PFTeDA_1	713.0 / 669.0	4.24	971.85	1000.00	97.18
PFTeDA_2	713.0 / 169.0	4.24	937.05	1000.00	93.71
NMeFOSAA_1	570.0 / 419.0	3.25	1034.95	1000.00	103.49
NMeFOSAA_2	570.0 / 512.0	3.24	1033.32	1000.00	103.33
NEtFOSAA_1	584.0 / 419.0	3.41	904.77	1000.00	90.48
NEtFOSAA_2	584.0 / 483.0	3.41	1093.88	1000.00	109.39
HFPO-DA_1	285.0 / 169.0	1.71	751.65	1000.00	75.17
HFPO-DA_2	285.0 / 118.8	1.71	874.34	1000.00	87.43
ADONA_1	377.0 / 251.0	2.00	903.32	1000.00	90.33
ADONA_2	377.0 / 85.0	2.00	798.26	1000.00	79.83
9Cl-PF3ONS_1	531.0 / 351.0	2.93	1012.18	1000.00	101.22
9Cl-PF3ONS_2	531.0 / 83.0	2.93	791.45	1000.00	79.15
11Cl-pf3OUdS_1	631.0 / 451.0	3.58	924.72	1000.00	92.47
11Cl-pf3OUdS_2	631.0 / 83.0	3.59	740.88	1000.00	74.09

Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:17:09 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.33	2744.62	2500.00	109.78
PFBS_2	298.9 / 99.0	1.33	2822.78	2500.00	112.91
PFHxA_1	313.0 / 269.0	1.58	2478.54	2525.00	98.16
PFHxA_2	313.0 / 119.0	1.58	2230.36	2525.00	88.33
PFHpA_1	363.0 / 319.0	1.91	2842.67	2500.00	113.71
PFHpA_2	363.0 / 169.0	1.91	2816.41	2500.00	112.66
PFHxS_1	399.0 / 80.0	1.92	2560.82	2525.00	101.42
PFHxS_2	399.0 / 99.0	1.92	2742.40	2525.00	108.61
PFOA_1	413.0 / 369.0	2.28	2577.24	2500.00	103.09
PFOA_2	413.0 / 169.0	2.27	2538.06	2500.00	101.52
PFNA_1	463.0 / 419.0	2.64	2721.66	2500.00	108.87
PFNA_2	463.0 / 219.0	2.64	2388.32	2500.00	95.53
PFOS_1	499.0 / 80.0	2.64	2348.92	2525.00	93.03
PFOS_2	499.0 / 99.0	2.64	2400.54	2525.00	95.07
PFDA_1	513.0 / 469.0	3.00	2915.24	2500.00	116.61
PFDA_2	513.0 / 219.0	3.00	2458.62	2500.00	98.34
PFUnA_1	563.0 / 519.0	3.32	2522.67	2500.00	100.91
PFUnA_2	563.0 / 269.0	3.32	2453.60	2500.00	98.14
PFDoA_1	613.0 / 569.0	3.61	2565.89	2500.00	102.64
PFDoA_2	613.0 / 319.0	3.61	2479.54	2500.00	99.18
PFTrDA_1	663.0 / 619.0	3.86	2519.52	2500.00	100.78
PFTrDA_2	663.0 / 169.0	3.86	2532.77	2500.00	101.31
PFTeDA_1	713.0 / 669.0	4.09	2608.63	2500.00	104.35
PFTeDA_2	713.0 / 169.0	4.09	2396.72	2500.00	95.87
NMeFOSAA_1	570.0 / 419.0	3.14	2316.14	2500.00	92.65
NMeFOSAA_2	570.0 / 512.0	3.14	2770.36	2500.00	110.81
NEtFOSAA_1	584.0 / 419.0	3.31	2406.24	2500.00	96.25
NEtFOSAA_2	584.0 / 483.0	3.30	2255.70	2500.00	90.23
HFPO-DA_1	285.0 / 169.0	1.67	2916.06	2500.00	116.64
HFPO-DA_2	285.0 / 118.8	1.67	2391.81	2500.00	95.67
ADONA_1	377.0 / 251.0	1.95	2472.12	2500.00	98.88
ADONA_2	377.0 / 85.0	1.94	2291.60	2500.00	91.66
9Cl-PF3ONS_1	531.0 / 351.0	2.85	2416.99	2500.00	96.68
9Cl-PF3ONS_2	531.0 / 83.0	2.85	2452.71	2500.00	98.11
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	2597.19	2500.00	103.89
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	2670.88	2500.00	106.84

Sample Name	LD76 CCV	Injection Vial	10
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:12:18 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.33	1073.82	1000.00	107.38
PFBS_2	298.9 / 99.0	1.33	1055.01	1000.00	105.50
PFHxA_1	313.0 / 269.0	1.58	980.63	1010.00	97.09
PFHxA_2	313.0 / 119.0	1.58	851.24	1010.00	84.28
PFHpA_1	363.0 / 319.0	1.91	1013.74	1000.00	101.37
PFHpA_2	363.0 / 169.0	1.91	1140.09	1000.00	114.01
PFHxS_1	399.0 / 80.0	1.92	949.52	1010.00	94.01
PFHxS_2	399.0 / 99.0	1.92	1059.91	1010.00	104.94
PFOA_1	413.0 / 369.0	2.28	987.44	1000.00	98.74
PFOA_2	413.0 / 169.0	2.27	979.99	1000.00	98.00
PFNA_1	463.0 / 419.0	2.65	1009.29	1000.00	100.93
PFNA_2	463.0 / 219.0	2.65	887.55	1000.00	88.76
PFOS_1	499.0 / 80.0	2.64	968.63	1010.00	95.90
PFOS_2	499.0 / 99.0	2.64	1010.32	1010.00	100.03
PFDA_1	513.0 / 469.0	3.00	978.83	1000.00	97.88
PFDA_2	513.0 / 219.0	3.00	940.16	1000.00	94.02
PFUnA_1	563.0 / 519.0	3.33	966.51	1000.00	96.65
PFUnA_2	563.0 / 269.0	3.32	931.45	1000.00	93.14
PFDoA_1	613.0 / 569.0	3.62	984.70	1000.00	98.47
PFDoA_2	613.0 / 319.0	3.62	932.92	1000.00	93.29
PFTrDA_1	663.0 / 619.0	3.87	958.26	1000.00	95.83
PFTrDA_2	663.0 / 169.0	3.87	917.22	1000.00	91.72
PFTeDA_1	713.0 / 669.0	4.11	965.61	1000.00	96.56
PFTeDA_2	713.0 / 169.0	4.11	925.42	1000.00	92.54
NMeFOSAA_1	570.0 / 419.0	3.15	1008.81	1000.00	100.88
NMeFOSAA_2	570.0 / 512.0	3.15	933.70	1000.00	93.37
NEtFOSAA_1	584.0 / 419.0	3.31	845.17	1000.00	84.52
NEtFOSAA_2	584.0 / 483.0	3.32	953.33	1000.00	95.33
HFPO-DA_1	285.0 / 169.0	1.67	970.73	1000.00	97.07
HFPO-DA_2	285.0 / 118.8	1.67	903.69	1000.00	90.37
ADONA_1	377.0 / 251.0	1.95	944.92	1000.00	94.49
ADONA_2	377.0 / 85.0	1.95	915.29	1000.00	91.53
9Cl-PF3ONS_1	531.0 / 351.0	2.85	945.74	1000.00	94.57
9Cl-PF3ONS_2	531.0 / 83.0	2.85	859.23	1000.00	85.92
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	984.14	1000.00	98.41
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	830.59	1000.00	83.06

Sample Name	LD77 CCV	Injection Vial	20
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:57:01 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.33	2699.11	2500.00	107.96
PFBS_2	298.9 / 99.0	1.33	2753.36	2500.00	110.13
PFHxA_1	313.0 / 269.0	1.58	2423.29	2525.00	95.97
PFHxA_2	313.0 / 119.0	1.58	2237.83	2525.00	88.63
PFHpA_1	363.0 / 319.0	1.92	2858.24	2500.00	114.33
PFHpA_2	363.0 / 169.0	1.92	2413.83	2500.00	96.55
PFHxS_1	399.0 / 80.0	1.93	2381.02	2525.00	94.30
PFHxS_2	399.0 / 99.0	1.92	2429.09	2525.00	96.20
PFOA_1	413.0 / 369.0	2.28	2642.43	2500.00	105.70
PFOA_2	413.0 / 169.0	2.28	2511.49	2500.00	100.46
PFNA_1	463.0 / 419.0	2.65	2541.79	2500.00	101.67
PFNA_2	463.0 / 219.0	2.65	2562.65	2500.00	102.51
PFOS_1	499.0 / 80.0	2.64	2647.62	2525.00	104.86
PFOS_2	499.0 / 99.0	2.64	2693.17	2525.00	106.66
PFDA_1	513.0 / 469.0	3.00	2649.25	2500.00	105.97
PFDA_2	513.0 / 219.0	3.00	2493.88	2500.00	99.76
PFUnA_1	563.0 / 519.0	3.33	2336.66	2500.00	93.47
PFUnA_2	563.0 / 269.0	3.33	2270.06	2500.00	90.80
PFDoA_1	613.0 / 569.0	3.62	2641.38	2500.00	105.66
PFDoA_2	613.0 / 319.0	3.62	2546.11	2500.00	101.84
PFTrDA_1	663.0 / 619.0	3.88	2681.93	2500.00	107.28
PFTrDA_2	663.0 / 169.0	3.88	2513.59	2500.00	100.54
PFTeDA_1	713.0 / 669.0	4.11	2580.34	2500.00	103.21
PFTeDA_2	713.0 / 169.0	4.11	2446.56	2500.00	97.86
NMeFOSAA_1	570.0 / 419.0	3.15	2401.76	2500.00	96.07
NMeFOSAA_2	570.0 / 512.0	3.15	2622.92	2500.00	104.92
NEtFOSAA_1	584.0 / 419.0	3.32	2386.18	2500.00	95.45
NEtFOSAA_2	584.0 / 483.0	3.32	2324.34	2500.00	92.97
HFPO-DA_1	285.0 / 169.0	1.67	3069.46	2500.00	122.78
HFPO-DA_2	285.0 / 118.8	1.67	3154.90	2500.00	126.20
ADONA_1	377.0 / 251.0	1.95	2642.00	2500.00	105.68
ADONA_2	377.0 / 85.0	1.95	2762.77	2500.00	110.51
9Cl-PF3ONS_1	531.0 / 351.0	2.85	2479.62	2500.00	99.18
9Cl-PF3ONS_2	531.0 / 83.0	2.85	2307.19	2500.00	92.29
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	2531.49	2500.00	101.26
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	2572.43	2500.00	102.90

Sample Name	LD76 CCV	Injection Vial	31
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:52:16 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	1048.65	1000.00	104.87
PFBS_2	298.9 / 99.0	1.32	1104.43	1000.00	110.44
PFHxA_1	313.0 / 269.0	1.57	906.39	1010.00	89.74
PFHxA_2	313.0 / 119.0	1.57	869.03	1010.00	86.04
PFHpA_1	363.0 / 319.0	1.91	1042.42	1000.00	104.24
PFHpA_2	363.0 / 169.0	1.90	995.66	1000.00	99.57
PFHxS_1	399.0 / 80.0	1.91	864.40	1010.00	85.58
PFHxS_2	399.0 / 99.0	1.92	908.67	1010.00	89.97
PFOA_1	413.0 / 369.0	2.27	988.25	1000.00	98.83
PFOA_2	413.0 / 169.0	2.26	995.38	1000.00	99.54
PFNA_1	463.0 / 419.0	2.63	924.58	1000.00	92.46
PFNA_2	463.0 / 219.0	2.63	942.66	1000.00	94.27
PFOS_1	499.0 / 80.0	2.63	933.19	1010.00	92.40
PFOS_2	499.0 / 99.0	2.63	1118.65	1010.00	110.76
PFDA_1	513.0 / 469.0	2.99	1024.90	1000.00	102.49
PFDA_2	513.0 / 219.0	2.99	1020.70	1000.00	102.07
PFUnA_1	563.0 / 519.0	3.32	943.58	1000.00	94.36
PFUnA_2	563.0 / 269.0	3.31	921.01	1000.00	92.10
PFDoA_1	613.0 / 569.0	3.61	991.72	1000.00	99.17
PFDoA_2	613.0 / 319.0	3.61	926.01	1000.00	92.60
PFTrDA_1	663.0 / 619.0	3.87	918.06	1000.00	91.81
PFTrDA_2	663.0 / 169.0	3.87	899.88	1000.00	89.99
PFTeDA_1	713.0 / 669.0	4.10	927.85	1000.00	92.78
PFTeDA_2	713.0 / 169.0	4.10	951.88	1000.00	95.19
NMeFOSAA_1	570.0 / 419.0	3.14	838.59	1000.00	83.86
NMeFOSAA_2	570.0 / 512.0	3.14	894.70	1000.00	89.47
NEtFOSAA_1	584.0 / 419.0	3.31	902.85	1000.00	90.29
NEtFOSAA_2	584.0 / 483.0	3.31	1271.07	1000.00	127.11
HFPO-DA_1	285.0 / 169.0	1.66	1007.57	1000.00	100.76
HFPO-DA_2	285.0 / 118.8	1.66	999.61	1000.00	99.96
ADONA_1	377.0 / 251.0	1.94	1001.68	1000.00	100.17
ADONA_2	377.0 / 85.0	1.94	836.81	1000.00	83.68
9Cl-PF3ONS_1	531.0 / 351.0	2.84	912.30	1000.00	91.23
9Cl-PF3ONS_2	531.0 / 83.0	2.84	1008.88	1000.00	100.89
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	985.82	1000.00	98.58
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	845.49	1000.00	84.55

Sample Name	LD77 CCV	Injection Vial	41
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:37:00 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	2659.87	2500.00	106.39
PFBS_2	298.9 / 99.0	1.32	2609.53	2500.00	104.38
PFHxA_1	313.0 / 269.0	1.57	2433.25	2525.00	96.37
PFHxA_2	313.0 / 119.0	1.57	2263.87	2525.00	89.66
PFHpA_1	363.0 / 319.0	1.89	2614.44	2500.00	104.58
PFHpA_2	363.0 / 169.0	1.89	2480.16	2500.00	99.21
PFHxS_1	399.0 / 80.0	1.90	2363.57	2525.00	93.61
PFHxS_2	399.0 / 99.0	1.90	2454.27	2525.00	97.20
PFOA_1	413.0 / 369.0	2.25	2548.26	2500.00	101.93
PFOA_2	413.0 / 169.0	2.24	2506.45	2500.00	100.26
PFNA_1	463.0 / 419.0	2.61	2492.50	2500.00	99.70
PFNA_2	463.0 / 219.0	2.61	2545.97	2500.00	101.84
PFOS_1	499.0 / 80.0	2.60	2687.14	2525.00	106.42
PFOS_2	499.0 / 99.0	2.60	2767.41	2525.00	109.60
PFDA_1	513.0 / 469.0	2.96	2559.11	2500.00	102.36
PFDA_2	513.0 / 219.0	2.96	2676.27	2500.00	107.05
PFUnA_1	563.0 / 519.0	3.28	2272.80	2500.00	90.91
PFUnA_2	563.0 / 269.0	3.27	2175.80	2500.00	87.03
PFDoA_1	613.0 / 569.0	3.56	2505.26	2500.00	100.21
PFDoA_2	613.0 / 319.0	3.56	2447.63	2500.00	97.91
PFTrDA_1	663.0 / 619.0	3.81	2589.24	2500.00	103.57
PFTrDA_2	663.0 / 169.0	3.81	2456.80	2500.00	98.27
PFTeDA_1	713.0 / 669.0	4.04	2578.64	2500.00	103.15
PFTeDA_2	713.0 / 169.0	4.04	2490.79	2500.00	99.63
NMeFOSAA_1	570.0 / 419.0	3.10	2087.23	2500.00	83.49
NMeFOSAA_2	570.0 / 512.0	3.10	2488.36	2500.00	99.53
NEtFOSAA_1	584.0 / 419.0	3.27	2396.22	2500.00	95.85
NEtFOSAA_2	584.0 / 483.0	3.27	2456.90	2500.00	98.28
HFPO-DA_1	285.0 / 169.0	1.65	3060.66	2500.00	122.43
HFPO-DA_2	285.0 / 118.8	1.65	2761.16	2500.00	110.45
ADONA_1	377.0 / 251.0	1.92	2609.40	2500.00	104.38
ADONA_2	377.0 / 85.0	1.92	2355.75	2500.00	94.23
9Cl-PF3ONS_1	531.0 / 351.0	2.81	2366.80	2500.00	94.67
9Cl-PF3ONS_2	531.0 / 83.0	2.81	2491.03	2500.00	99.64
11Cl-pf3OUdS_1	631.0 / 451.0	3.43	2447.02	2500.00	97.88
11Cl-pf3OUdS_2	631.0 / 83.0	3.43	2746.53	2500.00	109.86

Sample Name	LD76 CCV	Injection Vial	51
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:22:06 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	1054.53	1000.00	105.45
PFBS_2	298.9 / 99.0	1.32	1055.96	1000.00	105.60
PFHxA_1	313.0 / 269.0	1.57	927.10	1010.00	91.79
PFHxA_2	313.0 / 119.0	1.57	860.47	1010.00	85.20
PFHpA_1	363.0 / 319.0	1.90	963.63	1000.00	96.36
PFHpA_2	363.0 / 169.0	1.90	854.39	1000.00	85.44
PFHxS_1	399.0 / 80.0	1.90	965.49	1010.00	95.59
PFHxS_2	399.0 / 99.0	1.90	1049.46	1010.00	103.91
PFOA_1	413.0 / 369.0	2.26	1029.41	1000.00	102.94
PFOA_2	413.0 / 169.0	2.25	917.54	1000.00	91.75
PFNA_1	463.0 / 419.0	2.62	968.50	1000.00	96.85
PFNA_2	463.0 / 219.0	2.62	948.36	1000.00	94.84
PFOS_1	499.0 / 80.0	2.61	952.34	1010.00	94.29
PFOS_2	499.0 / 99.0	2.62	900.79	1010.00	89.19
PFDA_1	513.0 / 469.0	2.97	976.46	1000.00	97.65
PFDA_2	513.0 / 219.0	2.97	1063.41	1000.00	106.34
PFUnA_1	563.0 / 519.0	3.30	975.14	1000.00	97.51
PFUnA_2	563.0 / 269.0	3.30	969.36	1000.00	96.94
PFDoA_1	613.0 / 569.0	3.59	989.25	1000.00	98.93
PFDoA_2	613.0 / 319.0	3.59	907.51	1000.00	90.75
PFTrDA_1	663.0 / 619.0	3.84	969.29	1000.00	96.93
PFTrDA_2	663.0 / 169.0	3.84	962.55	1000.00	96.25
PFTeDA_1	713.0 / 669.0	4.07	964.82	1000.00	96.48
PFTeDA_2	713.0 / 169.0	4.07	986.96	1000.00	98.70
NMeFOSAA_1	570.0 / 419.0	3.12	1042.53	1000.00	104.25
NMeFOSAA_2	570.0 / 512.0	3.12	1049.66	1000.00	104.97
NEtFOSAA_1	584.0 / 419.0	3.29	950.56	1000.00	95.06
NEtFOSAA_2	584.0 / 483.0	3.30	1189.75	1000.00	118.97
HFPO-DA_1	285.0 / 169.0	1.65	1146.46	1000.00	114.65
HFPO-DA_2	285.0 / 118.8	1.66	1283.69	1000.00	128.37
ADONA_1	377.0 / 251.0	1.93	1016.16	1000.00	101.62
ADONA_2	377.0 / 85.0	1.93	954.82	1000.00	95.48
9Cl-PF3ONS_1	531.0 / 351.0	2.82	923.32	1000.00	92.33
9Cl-PF3ONS_2	531.0 / 83.0	2.83	1059.20	1000.00	105.92
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	963.23	1000.00	96.32
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	732.82	1000.00	73.28

Sample Name	LD77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:06:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	2916.85	2500.00	116.67
PFBS_2	298.9 / 99.0	1.32	2975.54	2500.00	119.02
PFHxA_1	313.0 / 269.0	1.57	2501.50	2525.00	99.07
PFHxA_2	313.0 / 119.0	1.57	2447.88	2525.00	96.95
PFHpA_1	363.0 / 319.0	1.90	2839.04	2500.00	113.56
PFHpA_2	363.0 / 169.0	1.90	2748.94	2500.00	109.96
PFHxS_1	399.0 / 80.0	1.90	2573.28	2525.00	101.91
PFHxS_2	399.0 / 99.0	1.90	2760.21	2525.00	109.32
PFOA_1	413.0 / 369.0	2.25	2361.99	2500.00	94.48
PFOA_2	413.0 / 169.0	2.25	2327.50	2500.00	93.10
PFNA_1	463.0 / 419.0	2.62	2643.32	2500.00	105.73
PFNA_2	463.0 / 219.0	2.62	2456.32	2500.00	98.25
PFOS_1	499.0 / 80.0	2.61	2536.15	2525.00	100.44
PFOS_2	499.0 / 99.0	2.61	2540.36	2525.00	100.61
PFDA_1	513.0 / 469.0	2.97	2653.18	2500.00	106.13
PFDA_2	513.0 / 219.0	2.97	2605.25	2500.00	104.21
PFUnA_1	563.0 / 519.0	3.30	2537.24	2500.00	101.49
PFUnA_2	563.0 / 269.0	3.30	2480.24	2500.00	99.21
PFDoA_1	613.0 / 569.0	3.59	2615.08	2500.00	104.60
PFDoA_2	613.0 / 319.0	3.59	2553.25	2500.00	102.13
PFTrDA_1	663.0 / 619.0	3.84	2646.61	2500.00	105.86
PFTrDA_2	663.0 / 169.0	3.84	2619.70	2500.00	104.79
PFTeDA_1	713.0 / 669.0	4.07	2630.12	2500.00	105.20
PFTeDA_2	713.0 / 169.0	4.07	2582.35	2500.00	103.29
NMeFOSAA_1	570.0 / 419.0	3.12	2603.20	2500.00	104.13
NMeFOSAA_2	570.0 / 512.0	3.12	2591.71	2500.00	103.67
NEtFOSAA_1	584.0 / 419.0	3.29	2345.03	2500.00	93.80
NEtFOSAA_2	584.0 / 483.0	3.29	2562.21	2500.00	102.49
HFPO-DA_1	285.0 / 169.0	1.65	3242.82	2500.00	129.71
HFPO-DA_2	285.0 / 118.8	1.65	2752.46	2500.00	110.10
ADONA_1	377.0 / 251.0	1.93	2334.95	2500.00	93.40
ADONA_2	377.0 / 85.0	1.93	2405.06	2500.00	96.20
9Cl-PF3ONS_1	531.0 / 351.0	2.82	2214.70	2500.00	88.59
9Cl-PF3ONS_2	531.0 / 83.0	2.82	2586.79	2500.00	103.47
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	2265.03	2500.00	90.60
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	2004.35	2500.00	80.17

Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:17:43 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.34	1056.12	1000.00	105.61
PFBS_2	298.9 / 99.0	1.34	1077.90	1000.00	107.79
PFHxA_1	313.0 / 269.0	1.60	929.13	1010.00	91.99
PFHxA_2	313.0 / 119.0	1.60	951.98	1010.00	94.26
PFHpA_1	363.0 / 319.0	1.93	1098.85	1000.00	109.89
PFHpA_2	363.0 / 169.0	1.94	820.47	1000.00	82.05
PFHxS_1	399.0 / 80.0	1.94	910.40	1010.00	90.14
PFHxS_2	399.0 / 99.0	1.94	953.06	1010.00	94.36
PFOA_1	413.0 / 369.0	2.30	944.93	1000.00	94.49
PFOA_2	413.0 / 169.0	2.30	970.31	1000.00	97.03
PFNA_1	463.0 / 419.0	2.67	1001.29	1000.00	100.13
PFNA_2	463.0 / 219.0	2.67	1043.99	1000.00	104.40
PFOS_1	499.0 / 80.0	2.66	948.06	1010.00	93.87
PFOS_2	499.0 / 99.0	2.66	1038.55	1010.00	102.83
PFDA_1	513.0 / 469.0	3.03	927.96	1000.00	92.80
PFDA_2	513.0 / 219.0	3.02	838.65	1000.00	83.87
PFUnA_1	563.0 / 519.0	3.36	985.65	1000.00	98.56
PFUnA_2	563.0 / 269.0	3.35	983.26	1000.00	98.33
PFDoA_1	613.0 / 569.0	3.65	970.50	1000.00	97.05
PFDoA_2	613.0 / 319.0	3.65	912.72	1000.00	91.27
PFTrDA_1	663.0 / 619.0	3.91	957.25	1000.00	95.72
PFTrDA_2	663.0 / 169.0	3.91	942.04	1000.00	94.20
PFTeDA_1	713.0 / 669.0	4.15	1010.43	1000.00	101.04
PFTeDA_2	713.0 / 169.0	4.15	932.27	1000.00	93.23
NMeFOSAA_1	570.0 / 419.0	3.18	1092.02	1000.00	109.20
NMeFOSAA_2	570.0 / 512.0	3.17	1140.13	1000.00	114.01
NEtFOSAA_1	584.0 / 419.0	3.35	908.06	1000.00	90.81
NEtFOSAA_2	584.0 / 483.0	3.34	1226.63	1000.00	122.66
HFPO-DA_1	285.0 / 169.0	1.69	808.69	1000.00	80.87
HFPO-DA_2	285.0 / 118.8	1.69	556.61	1000.00	55.66
ADONA_1	377.0 / 251.0	1.96	937.10	1000.00	93.71
ADONA_2	377.0 / 85.0	1.97	865.35	1000.00	86.53
9Cl-PF3ONS_1	531.0 / 351.0	2.87	932.32	1000.00	93.23
9Cl-PF3ONS_2	531.0 / 83.0	2.87	1214.33	1000.00	121.43
11Cl-pf3OUdS_1	631.0 / 451.0	3.51	999.70	1000.00	99.97
11Cl-pf3OUdS_2	631.0 / 83.0	3.51	1079.78	1000.00	107.98

Sample Name	LD77 CCV	Injection Vial	12
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:02:17 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.33	2797.68	2500.00	111.91
PFBS_2	298.9 / 99.0	1.33	2817.05	2500.00	112.68
PFHxA_1	313.0 / 269.0	1.58	2464.29	2525.00	97.60
PFHxA_2	313.0 / 119.0	1.58	2557.89	2525.00	101.30
PFHpA_1	363.0 / 319.0	1.91	2734.07	2500.00	109.36
PFHpA_2	363.0 / 169.0	1.91	2746.92	2500.00	109.88
PFHxS_1	399.0 / 80.0	1.92	2476.65	2525.00	98.09
PFHxS_2	399.0 / 99.0	1.92	2528.99	2525.00	100.16
PFOA_1	413.0 / 369.0	2.28	2639.39	2500.00	105.58
PFOA_2	413.0 / 169.0	2.28	2286.65	2500.00	91.47
PFNA_1	463.0 / 419.0	2.65	2573.10	2500.00	102.92
PFNA_2	463.0 / 219.0	2.65	2564.30	2500.00	102.57
PFOS_1	499.0 / 80.0	2.64	2520.77	2525.00	99.83
PFOS_2	499.0 / 99.0	2.64	2545.43	2525.00	100.81
PFDA_1	513.0 / 469.0	3.00	2748.75	2500.00	109.95
PFDA_2	513.0 / 219.0	3.00	2552.78	2500.00	102.11
PFUnA_1	563.0 / 519.0	3.33	2302.88	2500.00	92.12
PFUnA_2	563.0 / 269.0	3.33	2229.71	2500.00	89.19
PFDoA_1	613.0 / 569.0	3.62	2600.97	2500.00	104.04
PFDoA_2	613.0 / 319.0	3.62	2656.03	2500.00	106.24
PFTrDA_1	663.0 / 619.0	3.88	2755.67	2500.00	110.23
PFTrDA_2	663.0 / 169.0	3.88	2684.40	2500.00	107.38
PFTeDA_1	713.0 / 669.0	4.11	2603.01	2500.00	104.12
PFTeDA_2	713.0 / 169.0	4.11	2548.96	2500.00	101.96
NMeFOSAA_1	570.0 / 419.0	3.15	2453.82	2500.00	98.15
NMeFOSAA_2	570.0 / 512.0	3.15	2460.96	2500.00	98.44
NEtFOSAA_1	584.0 / 419.0	3.32	2348.80	2500.00	93.95
NEtFOSAA_2	584.0 / 483.0	3.32	2671.11	2500.00	106.84
HFPO-DA_1	285.0 / 169.0	1.67	3064.76	2500.00	122.59
HFPO-DA_2	285.0 / 118.8	1.67	2624.09	2500.00	104.96
ADONA_1	377.0 / 251.0	1.95	2303.29	2500.00	92.13
ADONA_2	377.0 / 85.0	1.94	2183.93	2500.00	87.36
9Cl-PF3ONS_1	531.0 / 351.0	2.85	2398.60	2500.00	95.94
9Cl-PF3ONS_2	531.0 / 83.0	2.85	2135.59	2500.00	85.42
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	2385.44	2500.00	95.42
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	2333.06	2500.00	93.32

Sample Name	LD76 CCV	Injection Vial	23
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:57:25 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	1044.02	1000.00	104.40
PFBS_2	298.9 / 99.0	1.32	1040.66	1000.00	104.07
PFHxA_1	313.0 / 269.0	1.57	976.41	1010.00	96.67
PFHxA_2	313.0 / 119.0	1.57	934.36	1010.00	92.51
PFHpA_1	363.0 / 319.0	1.90	1128.87	1000.00	112.89
PFHpA_2	363.0 / 169.0	1.90	1032.09	1000.00	103.21
PFHxS_1	399.0 / 80.0	1.91	934.39	1010.00	92.51
PFHxS_2	399.0 / 99.0	1.91	949.10	1010.00	93.97
PFOA_1	413.0 / 369.0	2.26	1076.09	1000.00	107.61
PFOA_2	413.0 / 169.0	2.26	1023.64	1000.00	102.36
PFNA_1	463.0 / 419.0	2.63	1039.68	1000.00	103.97
PFNA_2	463.0 / 219.0	2.63	975.90	1000.00	97.59
PFOS_1	499.0 / 80.0	2.62	968.02	1010.00	95.84
PFOS_2	499.0 / 99.0	2.62	1010.89	1010.00	100.09
PFDA_1	513.0 / 469.0	2.98	969.67	1000.00	96.97
PFDA_2	513.0 / 219.0	2.98	1006.75	1000.00	100.68
PFUnA_1	563.0 / 519.0	3.31	958.39	1000.00	95.84
PFUnA_2	563.0 / 269.0	3.31	850.04	1000.00	85.00
PFDoA_1	613.0 / 569.0	3.60	979.97	1000.00	98.00
PFDoA_2	613.0 / 319.0	3.60	942.86	1000.00	94.29
PFTrDA_1	663.0 / 619.0	3.86	941.90	1000.00	94.19
PFTrDA_2	663.0 / 169.0	3.86	950.55	1000.00	95.06
PFTeDA_1	713.0 / 669.0	4.10	979.73	1000.00	97.97
PFTeDA_2	713.0 / 169.0	4.09	981.52	1000.00	98.15
NMeFOSAA_1	570.0 / 419.0	3.13	963.01	1000.00	96.30
NMeFOSAA_2	570.0 / 512.0	3.13	989.22	1000.00	98.92
NEtFOSAA_1	584.0 / 419.0	3.30	997.76	1000.00	99.78
NEtFOSAA_2	584.0 / 483.0	3.30	1081.59	1000.00	108.16
HFPO-DA_1	285.0 / 169.0	1.66	1159.19	1000.00	115.92
HFPO-DA_2	285.0 / 118.8	1.66	1151.83	1000.00	115.18
ADONA_1	377.0 / 251.0	1.93	1019.84	1000.00	101.98
ADONA_2	377.0 / 85.0	1.93	1031.55	1000.00	103.16
9Cl-PF3ONS_1	531.0 / 351.0	2.83	987.46	1000.00	98.75
9Cl-PF3ONS_2	531.0 / 83.0	2.83	1150.49	1000.00	115.05
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	977.83	1000.00	97.78
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	1048.99	1000.00	104.90

Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 11:10:40 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.33	2853.38	2500.00	114.14
PFBS_2	298.9 / 99.0	1.32	2942.15	2500.00	117.69
PFHxA_1	313.0 / 269.0	1.58	2435.85	2525.00	96.47
PFHxA_2	313.0 / 119.0	1.57	2503.98	2525.00	99.17
PFHpA_1	363.0 / 319.0	1.91	2894.99	2500.00	115.80
PFHpA_2	363.0 / 169.0	1.91	2641.81	2500.00	105.67
PFHxS_1	399.0 / 80.0	1.92	2356.67	2525.00	93.33
PFHxS_2	399.0 / 99.0	1.92	2475.31	2525.00	98.03
PFOA_1	413.0 / 369.0	2.27	2711.96	2500.00	108.48
PFOA_2	413.0 / 169.0	2.27	2592.60	2500.00	103.70
PFNA_1	463.0 / 419.0	2.64	2485.68	2500.00	99.43
PFNA_2	463.0 / 219.0	2.64	2436.31	2500.00	97.45
PFOS_1	499.0 / 80.0	2.63	2389.16	2525.00	94.62
PFOS_2	499.0 / 99.0	2.63	2367.80	2525.00	93.77
PFDA_1	513.0 / 469.0	2.99	2708.74	2500.00	108.35
PFDA_2	513.0 / 219.0	2.99	2769.36	2500.00	110.77
PFUnA_1	563.0 / 519.0	3.32	2349.88	2500.00	94.00
PFUnA_2	563.0 / 269.0	3.32	2394.66	2500.00	95.79
PFDoA_1	613.0 / 569.0	3.61	2616.24	2500.00	104.65
PFDoA_2	613.0 / 319.0	3.61	2577.31	2500.00	103.09
PFTrDA_1	663.0 / 619.0	3.87	2537.21	2500.00	101.49
PFTrDA_2	663.0 / 169.0	3.87	2547.36	2500.00	101.89
PFTeDA_1	713.0 / 669.0	4.10	2656.32	2500.00	106.25
PFTeDA_2	713.0 / 169.0	4.10	2490.39	2500.00	99.62
NMeFOSAA_1	570.0 / 419.0	3.14	2335.88	2500.00	93.44
NMeFOSAA_2	570.0 / 512.0	3.14	2573.33	2500.00	102.93
NEtFOSAA_1	584.0 / 419.0	3.31	2352.12	2500.00	94.08
NEtFOSAA_2	584.0 / 483.0	3.31	2775.73	2500.00	111.03
HFPO-DA_1	285.0 / 169.0	1.66	3086.66	2500.00	123.47
HFPO-DA_2	285.0 / 118.8	1.66	2928.62	2500.00	117.14
ADONA_1	377.0 / 251.0	1.94	2517.91	2500.00	100.72
ADONA_2	377.0 / 85.0	1.94	2700.52	2500.00	108.02
9Cl-PF3ONS_1	531.0 / 351.0	2.84	2578.93	2500.00	103.16
9Cl-PF3ONS_2	531.0 / 83.0	2.84	2702.42	2500.00	108.10
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	2549.66	2500.00	101.99
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	2645.86	2500.00	105.83

Sample Name	LD81 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 4:20:54 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.59	1148.32	1250.00	91.87
d3-MeFOSAA	573.0 / 419.0	3.12	1207.29	1250.00	96.58
d5-EtFOSAA	589.0 / 419.0	3.29	1276.47	1250.00	102.12
13C5-PFHxA	318.0 / 273.0	1.56	1270.24	1250.00	101.62
13C4-PFHpA	367.0 / 322.0	1.89	1318.03	1250.00	105.44
13C8-PFOA	421.0 / 376.0	2.25	1189.74	1222.50	97.32
13C9-PFNA	472.0 / 427.0	2.62	1164.10	1250.00	93.13
13C6-PFDA	519.0 / 474.0	2.97	1171.08	1250.00	93.69
13C7-PFUnA	570.0 / 525.0	3.30	1280.83	1250.00	102.47
13C2-PFTeDA	715.0 / 670.0	4.07	1226.24	1250.00	98.10
13C3-PFBS	302.0 / 99.0	1.31	1020.80	1162.50	87.81
13C3-PFHxS	402.0 / 99.0	1.90	1137.02	1182.50	96.15
13C8-PFOS	507.0 / 99.0	2.61	1108.74	1195.00	92.78
13C3-HFPO-DA	287.0 / 169.0	1.65	1240.92	1250.00	99.27

Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 9:34:18 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.73	1056.38	1250.00	84.51
d3-MeFOSAA	573.0 / 419.0	3.24	1190.49	1250.00	95.24
d5-EtFOSAA	589.0 / 419.0	3.41	1352.68	1250.00	108.21
13C5-PFHxA	318.0 / 273.0	1.61	1195.44	1250.00	95.63
13C4-PFHpA	367.0 / 322.0	1.96	1195.85	1250.00	95.67
13C8-PFOA	421.0 / 376.0	2.33	1220.40	1222.50	99.83
13C9-PFNA	472.0 / 427.0	2.72	1218.17	1250.00	97.45
13C6-PFDA	519.0 / 474.0	3.09	1074.88	1250.00	85.99
13C7-PFUnA	570.0 / 525.0	3.42	1134.60	1250.00	90.77
13C2-PFTeDA	715.0 / 670.0	4.23	1291.57	1250.00	103.33
13C3-PFBS	302.0 / 99.0	1.34	1176.82	1162.50	101.23
13C3-PFHxS	402.0 / 99.0	1.97	1273.64	1182.50	107.71
13C8-PFOS	507.0 / 99.0	2.72	1267.64	1195.00	106.08
13C3-HFPO-DA	287.0 / 169.0	1.71	1396.77	1250.00	111.74

Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:17:09 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.60	1151.31	1250.00	92.10
d3-MeFOSAA	573.0 / 419.0	3.14	1297.26	1250.00	103.78
d5-EtFOSAA	589.0 / 419.0	3.30	1404.94	1250.00	112.40
13C5-PFHxA	318.0 / 273.0	1.57	1235.12	1250.00	98.81
13C4-PFHpA	367.0 / 322.0	1.90	1146.94	1250.00	91.76
13C8-PFOA	421.0 / 376.0	2.27	1098.98	1222.50	89.90
13C9-PFNA	472.0 / 427.0	2.64	1351.69	1250.00	108.14
13C6-PFDA	519.0 / 474.0	2.99	1148.74	1250.00	91.90
13C7-PFUnA	570.0 / 525.0	3.31	1301.11	1250.00	104.09
13C2-PFTeDA	715.0 / 670.0	4.09	1198.77	1250.00	95.90
13C3-PFBS	302.0 / 99.0	1.32	1140.44	1162.50	98.10
13C3-PFHxS	402.0 / 99.0	1.91	1189.32	1182.50	100.58
13C8-PFOS	507.0 / 99.0	2.63	1313.00	1195.00	109.87
13C3-HFPO-DA	287.0 / 169.0	1.67	1138.34	1250.00	91.07

Sample Name	LD76 CCV	Injection Vial	10
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:12:18 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.62	1177.02	1250.00	94.16
d3-MeFOSAA	573.0 / 419.0	3.14	1236.46	1250.00	98.92
d5-EtFOSAA	589.0 / 419.0	3.31	1360.31	1250.00	108.82
13C5-PFHxA	318.0 / 273.0	1.57	1381.16	1250.00	110.49
13C4-PFHpA	367.0 / 322.0	1.90	1336.89	1250.00	106.95
13C8-PFOA	421.0 / 376.0	2.27	1284.02	1222.50	105.03
13C9-PFNA	472.0 / 427.0	2.64	1297.64	1250.00	103.81
13C6-PFDA	519.0 / 474.0	3.00	1209.69	1250.00	96.77
13C7-PFUnA	570.0 / 525.0	3.32	1279.26	1250.00	102.34
13C2-PFTeDA	715.0 / 670.0	4.10	1218.76	1250.00	97.50
13C3-PFBS	302.0 / 99.0	1.32	1060.32	1162.50	91.21
13C3-PFHxS	402.0 / 99.0	1.92	1214.32	1182.50	102.69
13C8-PFOS	507.0 / 99.0	2.64	1120.30	1195.00	93.75
13C3-HFPO-DA	287.0 / 169.0	1.67	1228.39	1250.00	98.27

Sample Name	LD77 CCV	Injection Vial	20
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:57:01 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.62	1247.07	1250.00	99.77
d3-MeFOSAA	573.0 / 419.0	3.14	1256.37	1250.00	100.51
d5-EtFOSAA	589.0 / 419.0	3.31	1293.52	1250.00	103.48
13C5-PFHxA	318.0 / 273.0	1.57	1315.32	1250.00	105.23
13C4-PFHpA	367.0 / 322.0	1.91	1279.98	1250.00	102.40
13C8-PFOA	421.0 / 376.0	2.27	1229.53	1222.50	100.58
13C9-PFNA	472.0 / 427.0	2.64	1251.95	1250.00	100.16
13C6-PFDA	519.0 / 474.0	3.00	1307.86	1250.00	104.63
13C7-PFUnA	570.0 / 525.0	3.32	1392.21	1250.00	111.38
13C2-PFTeDA	715.0 / 670.0	4.11	1253.57	1250.00	100.29
13C3-PFBS	302.0 / 99.0	1.32	1104.70	1162.50	95.03
13C3-PFHxS	402.0 / 99.0	1.92	1233.35	1182.50	104.30
13C8-PFOS	507.0 / 99.0	2.64	1105.48	1195.00	92.51
13C3-HFPO-DA	287.0 / 169.0	1.67	1171.26	1250.00	93.70

Sample Name	LD76 CCV	Injection Vial	31
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:52:16 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.61	1175.97	1250.00	94.08
d3-MeFOSAA	573.0 / 419.0	3.13	1426.60	1250.00	114.13
d5-EtFOSAA	589.0 / 419.0	3.30	1355.10	1250.00	108.41
13C5-PFHxA	318.0 / 273.0	1.56	1366.08	1250.00	109.29
13C4-PFHpA	367.0 / 322.0	1.89	1292.54	1250.00	103.40
13C8-PFOA	421.0 / 376.0	2.26	1249.08	1222.50	102.17
13C9-PFNA	472.0 / 427.0	2.63	1338.78	1250.00	107.10
13C6-PFDA	519.0 / 474.0	2.98	1190.78	1250.00	95.26
13C7-PFUnA	570.0 / 525.0	3.31	1261.11	1250.00	100.89
13C2-PFTeDA	715.0 / 670.0	4.10	1238.42	1250.00	99.07
13C3-PFBS	302.0 / 99.0	1.31	1053.33	1162.50	90.61
13C3-PFHxS	402.0 / 99.0	1.90	1255.04	1182.50	106.13
13C8-PFOS	507.0 / 99.0	2.63	1168.14	1195.00	97.75
13C3-HFPO-DA	287.0 / 169.0	1.66	1136.17	1250.00	90.89

Sample Name	LD77 CCV	Injection Vial	41
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:37:00 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.56	1174.37	1250.00	93.95
d3-MeFOSAA	573.0 / 419.0	3.10	1240.74	1250.00	99.26
d5-EtFOSAA	589.0 / 419.0	3.26	1251.92	1250.00	100.15
13C5-PFHxA	318.0 / 273.0	1.56	1270.64	1250.00	101.65
13C4-PFHpA	367.0 / 322.0	1.88	1241.84	1250.00	99.35
13C8-PFOA	421.0 / 376.0	2.24	1171.73	1222.50	95.85
13C9-PFNA	472.0 / 427.0	2.60	1180.45	1250.00	94.44
13C6-PFDA	519.0 / 474.0	2.95	1184.82	1250.00	94.79
13C7-PFUnA	570.0 / 525.0	3.27	1277.58	1250.00	102.21
13C2-PFTeDA	715.0 / 670.0	4.04	1197.02	1250.00	95.76
13C3-PFBS	302.0 / 99.0	1.31	1102.44	1162.50	94.83
13C3-PFHxS	402.0 / 99.0	1.89	1174.79	1182.50	99.35
13C8-PFOS	507.0 / 99.0	2.60	1052.97	1195.00	88.11
13C3-HFPO-DA	287.0 / 169.0	1.65	1062.73	1250.00	85.02

Sample Name	LD76 CCV	Injection Vial	51
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:22:06 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.59	1204.06	1250.00	96.32
d3-MeFOSAA	573.0 / 419.0	3.12	1229.26	1250.00	98.34
d5-EtFOSAA	589.0 / 419.0	3.28	1374.26	1250.00	109.94
13C5-PFHxA	318.0 / 273.0	1.56	1460.35	1250.00	116.83
13C4-PFHpA	367.0 / 322.0	1.89	1414.10	1250.00	113.13
13C8-PFOA	421.0 / 376.0	2.25	1320.90	1222.50	108.05
13C9-PFNA	472.0 / 427.0	2.61	1285.87	1250.00	102.87
13C6-PFDA	519.0 / 474.0	2.97	1244.39	1250.00	99.55
13C7-PFUnA	570.0 / 525.0	3.29	1307.78	1250.00	104.62
13C2-PFTeDA	715.0 / 670.0	4.07	1241.21	1250.00	99.30
13C3-PFBS	302.0 / 99.0	1.31	1135.20	1162.50	97.65
13C3-PFHxS	402.0 / 99.0	1.90	1219.70	1182.50	103.15
13C8-PFOS	507.0 / 99.0	2.61	1258.20	1195.00	105.29
13C3-HFPO-DA	287.0 / 169.0	1.66	1127.22	1250.00	90.18

Sample Name	LD77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:06:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.59	1136.82	1250.00	90.95
d3-MeFOSAA	573.0 / 419.0	3.12	1285.01	1250.00	102.80
d5-EtFOSAA	589.0 / 419.0	3.28	1507.14	1250.00	120.57
13C5-PFHxA	318.0 / 273.0	1.56	1218.01	1250.00	97.44
13C4-PFHpA	367.0 / 322.0	1.89	1189.67	1250.00	95.17
13C8-PFOA	421.0 / 376.0	2.25	1245.00	1222.50	101.84
13C9-PFNA	472.0 / 427.0	2.61	1458.80	1250.00	116.70
13C6-PFDA	519.0 / 474.0	2.97	1148.53	1250.00	91.88
13C7-PFUnA	570.0 / 525.0	3.29	1176.04	1250.00	94.08
13C2-PFTeDA	715.0 / 670.0	4.07	1119.03	1250.00	89.52
13C3-PFBS	302.0 / 99.0	1.31	1175.18	1162.50	101.09
13C3-PFHxS	402.0 / 99.0	1.90	1266.12	1182.50	107.07
13C8-PFOS	507.0 / 99.0	2.61	1287.94	1195.00	107.78
13C3-HFPO-DA	287.0 / 169.0	1.65	1032.81	1250.00	82.62

Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:17:43 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.65	1168.71	1250.00	93.50
d3-MeFOSAA	573.0 / 419.0	3.17	1283.30	1250.00	102.66
d5-EtFOSAA	589.0 / 419.0	3.34	1510.51	1250.00	120.84
13C5-PFHxA	318.0 / 273.0	1.59	1294.74	1250.00	103.58
13C4-PFHpA	367.0 / 322.0	1.92	1258.99	1250.00	100.72
13C8-PFOA	421.0 / 376.0	2.29	1220.66	1222.50	99.85
13C9-PFNA	472.0 / 427.0	2.66	1250.28	1250.00	100.02
13C6-PFDA	519.0 / 474.0	3.02	1241.23	1250.00	99.30
13C7-PFUnA	570.0 / 525.0	3.35	1229.19	1250.00	98.34
13C2-PFTeDA	715.0 / 670.0	4.15	1219.96	1250.00	97.60
13C3-PFBS	302.0 / 99.0	1.33	1239.86	1162.50	106.65
13C3-PFHxS	402.0 / 99.0	1.93	1411.34	1182.50	119.35
13C8-PFOS	507.0 / 99.0	2.66	1290.00	1195.00	107.95
13C3-HFPO-DA	287.0 / 169.0	1.68	1286.57	1250.00	102.93

Sample Name	LD77 CCV	Injection Vial	12
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:02:17 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.62	1168.44	1250.00	93.48
d3-MeFOSAA	573.0 / 419.0	3.15	1450.21	1250.00	116.02
d5-EtFOSAA	589.0 / 419.0	3.31	1419.35	1250.00	113.55
13C5-PFHxA	318.0 / 273.0	1.57	1303.45	1250.00	104.28
13C4-PFHpA	367.0 / 322.0	1.90	1238.48	1250.00	99.08
13C8-PFOA	421.0 / 376.0	2.27	1266.22	1222.50	103.58
13C9-PFNA	472.0 / 427.0	2.64	1352.01	1250.00	108.16
13C6-PFDA	519.0 / 474.0	2.99	1190.75	1250.00	95.26
13C7-PFUnA	570.0 / 525.0	3.32	1340.42	1250.00	107.23
13C2-PFTeDA	715.0 / 670.0	4.11	1150.90	1250.00	92.07
13C3-PFBS	302.0 / 99.0	1.32	1251.39	1162.50	107.65
13C3-PFHxS	402.0 / 99.0	1.91	1295.43	1182.50	109.55
13C8-PFOS	507.0 / 99.0	2.64	1303.44	1195.00	109.07
13C3-HFPO-DA	287.0 / 169.0	1.66	1135.98	1250.00	90.88

Sample Name	LD76 CCV	Injection Vial	23
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:57:25 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.60	1161.95	1250.00	92.96
d3-MeFOSAA	573.0 / 419.0	3.13	1205.77	1250.00	96.46
d5-EtFOSAA	589.0 / 419.0	3.29	1299.64	1250.00	103.97
13C5-PFHxA	318.0 / 273.0	1.56	1355.64	1250.00	108.45
13C4-PFHpA	367.0 / 322.0	1.89	1209.53	1250.00	96.76
13C8-PFOA	421.0 / 376.0	2.25	1224.15	1222.50	100.13
13C9-PFNA	472.0 / 427.0	2.62	1216.66	1250.00	97.33
13C6-PFDA	519.0 / 474.0	2.98	1228.95	1250.00	98.32
13C7-PFUnA	570.0 / 525.0	3.31	1251.97	1250.00	100.16
13C2-PFTeDA	715.0 / 670.0	4.09	1197.38	1250.00	95.79
13C3-PFBS	302.0 / 99.0	1.31	1058.29	1162.50	91.04
13C3-PFHxS	402.0 / 99.0	1.90	1169.17	1182.50	98.87
13C8-PFOS	507.0 / 99.0	2.62	1164.69	1195.00	97.46
13C3-HFPO-DA	287.0 / 169.0	1.66	1080.06	1250.00	86.40

Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 11:10:40 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.61	1098.11	1250.00	87.85
d3-MeFOSAA	573.0 / 419.0	3.13	1198.45	1250.00	95.88
d5-EtFOSAA	589.0 / 419.0	3.30	1356.70	1250.00	108.54
13C5-PFHxA	318.0 / 273.0	1.56	1204.62	1250.00	96.37
13C4-PFHpA	367.0 / 322.0	1.90	1137.35	1250.00	90.99
13C8-PFOA	421.0 / 376.0	2.26	1119.36	1222.50	91.56
13C9-PFNA	472.0 / 427.0	2.63	1299.84	1250.00	103.99
13C6-PFDA	519.0 / 474.0	2.99	1154.43	1250.00	92.35
13C7-PFUnA	570.0 / 525.0	3.31	1255.70	1250.00	100.46
13C2-PFTeDA	715.0 / 670.0	4.10	1143.93	1250.00	91.51
13C3-PFBS	302.0 / 99.0	1.31	1054.77	1162.50	90.73
13C3-PFHxS	402.0 / 99.0	1.91	1229.73	1182.50	103.99
13C8-PFOS	507.0 / 99.0	2.63	1238.74	1195.00	103.66
13C3-HFPO-DA	287.0 / 169.0	1.66	1063.47	1250.00	85.08

Sample Name	LD81 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 4:20:54 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	1729739.25	3000.19	15178.5	False	13C3-PFBS	259888.24	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	587535.93	3035.90	4228.6	False	13C3-PFBS	259888.24	1162.50	PFBS	0.340	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	3007171.02	2601.67	2041.6	False	13C5-PFHxA	1246927.93	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.56	181886.56	2555.38	1326.4	False	13C5-PFHxA	1246927.93	1250.00	PFHxA	0.060	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	2167869.34	2529.25	1172.6	False	13C4-PFHpA	1276300.03	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	63966.24	2400.58	41056.8	False	13C4-PFHpA	1276300.03	1250.00	PFHpA	0.030	0.029	✓
PFHxS_1	399.0 / 80.0	1.90	1749560.88	2661.03	2743.9	False	13C3-PFHxS	233731.75	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	653669.73	2881.65	3610.1	False	13C3-PFHxS	233731.75	1182.50	PFHxS	0.374	0.345	✓
PFOA_1	413.0 / 369.0	2.26	2733089.75	2598.17	1031.2	False	13C8-PFOA	1496044.31	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	281096.69	2685.82	1869.6	False	13C8-PFOA	1496044.31	1222.50	PFOA	0.103	0.096	✓
PFNA_1	463.0 / 419.0	2.62	2684754.60	2739.79	1383.0	False	13C9-PFNA	1483568.59	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	910469.83	2634.70	3800.0	False	13C9-PFNA	1483568.59	1250.00	PFNA	0.339	0.346	✓
PFOS_1	499.0 / 80.0	2.62	1754631.76	2606.15	1402.1	False	13C8-PFOS	217801.21	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	361870.90	2637.86	54300.9	False	13C8-PFOS	217801.21	1195.00	PFOS	0.206	0.202	✓
PFDA_1	513.0 / 469.0	2.98	2462974.41	2801.52	963.1	False	13C6-PFDA	1229161.41	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	144265.16	2809.09	28286.0	False	13C6-PFDA	1229161.41	1250.00	PFDA	0.059	0.055	✓
PFUnA_1	563.0 / 519.0	3.30	2794577.06	2562.04	1516.1	False	13C7-PFUnA	1218358.02	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	170196.26	2409.71	2495.4	False	13C7-PFUnA	1218358.02	1250.00	PFUnA	0.061	0.063	✓
PFDoA_1	613.0 / 569.0	3.59	3127640.46	2996.78	1773.0	False	13C2-PFDoA	1365792.14	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	349563.25	2764.60	2843.9	False	13C2-PFDoA	1365792.14	1250.00	PFDoA	0.112	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.85	2537602.32	2778.84	3156.4	False	13C2-PFTeDA	1251283.22	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.84	178193.95	2656.66	2262.1	False	13C2-PFTeDA	1251283.22	1250.00	PFTTrDA	0.070	0.071	✓
PFTeDA_1	713.0 / 669.0	4.08	2796991.73	2834.65	3003.8	False	13C2-PFTeDA	1251283.22	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.07	156441.53	2693.39	3059.9	False	13C2-PFTeDA	1251283.22	1250.00	PFTeDA	0.056	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.12	279884.65	2577.95	358260.2	False	d3-MeFOSAA	195609.04	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	302551.71	2731.06	2831.3	False	d3-MeFOSAA	195609.04	1250.00	NMeFOSAA	1.081	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.29	357440.41	2412.94	2353.6	False	d5-EtFOSAA	196047.91	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.29	21154.93	2561.22	15866.4	False	d5-EtFOSAA	196047.91	1250.00	NEtFOSAA	0.059	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.65	2906221.95	3013.68	6665.8	False	13C3-HFPO-DA	511665.42	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	52624.44	2508.83	52166.1	False	13C3-HFPO-DA	511665.42	1250.00	HFPO-DA	0.018	0.021	✓
ADONA_1	377.0 / 251.0	1.93	6128750.24	2725.85	9844.3	False	13C8-PFOA	1496044.31	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	96774.40	2842.82	494.0	False	13C8-PFOA	1496044.31	1222.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	3352843.59	2648.94	2737.3	False	13C8-PFOA	1496044.31	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.82	34871.48	2763.41	3902.1	False	13C8-PFOA	1496044.31	1222.50	9CI-PF3ONS	0.010	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	2333201.61	2556.44	3101.1	False	13C8-PFOA	1496044.31	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	11385.72	2308.08	764.3	False	13C8-PFOA	1496044.31	1222.50	11Cl-PF3OUdS	0.005	0.006	✓

Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 9:34:18 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.35	553797.86	1037.17	7346.5	False	13C3-PFBS	224098.20	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.35	184692.67	1043.86	2880.8	False	13C3-PFBS	224098.20	1162.50	PFBS	0.334	0.331	✓
PFHxA_1	313.0 / 269.0	1.62	1046307.59	1063.20	1544.7	False	13C5-PFHxA	1029112.07	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.62	59988.69	982.21	2640.1	False	13C5-PFHxA	1029112.07	1250.00	PFHxA	0.057	0.062	✓
PFHpA_1	363.0 / 319.0	1.97	754540.47	1054.29	918.5	False	13C4-PFHpA	1015509.28	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.97	17673.10	843.77	5780710.5	False	13C4-PFHpA	1015509.28	1250.00	PFHpA	0.023	0.029	✓
PFHxS_1	399.0 / 80.0	1.97	512191.27	909.98	1281.3	False	13C3-PFHxS	195829.82	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.97	189016.38	975.34	1712.3	False	13C3-PFHxS	195829.82	1182.50	PFHxS	0.369	0.345	✓
PFOA_1	413.0 / 369.0	2.34	887731.70	913.96	734.9	False	13C8-PFOA	1345790.96	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.34	84561.46	905.73	1601.0	False	13C8-PFOA	1345790.96	1222.50	PFOA	0.095	0.096	✓
PFNA_1	463.0 / 419.0	2.73	801406.89	997.01	731.5	False	13C9-PFNA	1161198.27	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.73	261696.62	934.24	1962.1	False	13C9-PFNA	1161198.27	1250.00	PFNA	0.327	0.346	✓
PFOS_1	499.0 / 80.0	2.72	524658.48	896.93	885.3	False	13C8-PFOS	186256.46	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.72	108762.26	919.53	17377.2	False	13C8-PFOS	186256.46	1195.00	PFOS	0.207	0.202	✓
PFDA_1	513.0 / 469.0	3.09	794263.33	1024.10	684.5	False	13C6-PFDA	1034775.07	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.09	43703.56	1005.00	829.0	False	13C6-PFDA	1034775.07	1250.00	PFDA	0.055	0.055	✓
PFOA_1	563.0 / 519.0	3.43	869049.16	967.60	1191.8	False	13C7-PFOA	989901.35	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.43	50559.73	883.64	4302.6	False	13C7-PFOA	989901.35	1250.00	PFOA	0.058	0.063	✓
PFDoA_1	613.0 / 569.0	3.73	934253.08	1008.96	1280.0	False	13C2-PFDoA	1152409.05	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.73	104364.21	942.34	1612.2	False	13C2-PFDoA	1152409.05	1250.00	PFDoA	0.112	0.119	✓
PFTeDA_1	663.0 / 619.0	3.99	798197.32	849.58	2643.0	False	13C2-PFTeDA	1208825.92	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.99	55472.41	825.75	2315.9	False	13C2-PFTeDA	1208825.92	1250.00	PFTeDA	0.069	0.071	✓
PFTeDA_1	713.0 / 669.0	4.24	988458.56	971.85	3655.4	False	13C2-PFTeDA	1208825.92	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.24	53214.02	937.05	2628.4	False	13C2-PFTeDA	1208825.92	1250.00	PFTeDA	0.054	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.25	81989.78	1034.95	1060.0	False	d3-MeFOSAA	143176.56	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.24	86376.44	1033.32	6341.8	False	d3-MeFOSAA	143176.56	1250.00	NMeFOSAA	1.054	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.41	109301.54	904.77	263580.6	False	d5-EtFOSAA	154525.82	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.41	6936.16	1093.88	69621.2	False	d5-EtFOSAA	154525.82	1250.00	NEtFOSAA	0.063	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.71	945660.37	751.65	4414.9	False	13C3-HFPO-DA	505067.40	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.71	22355.20	874.34	636.6	False	13C3-HFPO-DA	505067.40	1250.00	HFPO-DA	0.024	0.021	✓
ADONA_1	377.0 / 251.0	2.00	1858423.96	903.32	6807.4	False	13C8-PFOA	1345790.96	1222.50	ADONA			
ADONA_2	377.0 / 85.0	2.00	24561.75	798.26	10385109.1	False	13C8-PFOA	1345790.96	1222.50	ADONA	0.013	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.93	1123243.21	1012.18	2527.8	False	13C8-PFOA	1345790.96	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.93	9102.97	791.45	13260.8	False	13C8-PFOA	1345790.96	1222.50	9CI-PF3ONS	0.008	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.58	753001.23	924.72	2048.6	False	13C8-PFOA	1345790.96	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.59	3407.99	740.88	339.7	False	13C8-PFOA	1345790.96	1222.50	11Cl-PF3OUdS	0.005	0.006	✓

Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:17:09 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	1607934.47	2744.62	18380.1	False	13C3-PFBS	263124.50	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	554410.65	2822.78	4727.7	False	13C3-PFBS	263124.50	1162.50	PFBS	0.345	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	3082502.96	2478.54	2508.8	False	13C5-PFHxA	1340209.19	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	171244.70	2230.36	1681.4	False	13C5-PFHxA	1340209.19	1250.00	PFHxA	0.056	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	2334503.39	2842.67	1242.4	False	13C4-PFHpA	1227650.52	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	72255.66	2816.41	1121.8	False	13C4-PFHpA	1227650.52	1250.00	PFHpA	0.031	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	1596705.46	2560.82	1984.3	False	13C3-PFHxS	221559.86	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	589988.41	2742.40	5114.7	False	13C3-PFHxS	221559.86	1182.50	PFHxS	0.370	0.345	✓
PFOA_1	413.0 / 369.0	2.28	2768448.71	2577.24	1212.5	False	13C8-PFOA	1527531.26	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	271155.84	2538.06	2067.0	False	13C8-PFOA	1527531.26	1222.50	PFOA	0.098	0.096	✓
PFNA_1	463.0 / 419.0	2.64	2806925.65	2721.66	1020.4	False	13C9-PFNA	1561122.21	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	870226.92	2388.32	3256.9	False	13C9-PFNA	1561122.21	1250.00	PFNA	0.310	0.346	✓
PFOS_1	499.0 / 80.0	2.64	1698755.73	2348.92	1265.0	False	13C8-PFOS	233743.08	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	353571.95	2400.54	1774.8	False	13C8-PFOS	233743.08	1195.00	PFOS	0.208	0.202	✓
PFDA_1	513.0 / 469.0	3.00	2699559.69	2915.24	1108.9	False	13C6-PFDA	1296071.59	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	133201.23	2458.62	1628.9	False	13C6-PFDA	1296071.59	1250.00	PFDA	0.049	0.055	✓
PFUnA_1	563.0 / 519.0	3.32	3005060.55	2522.67	1743.8	False	13C7-PFUnA	1330397.82	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	189238.26	2453.60	1853.2	False	13C7-PFUnA	1330397.82	1250.00	PFUnA	0.063	0.063	✓
PFDoA_1	613.0 / 569.0	3.61	2898798.36	2565.89	1695.3	False	13C2-PFDoA	1471976.01	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.61	338659.55	2479.54	2866.1	False	13C2-PFDoA	1471976.01	1250.00	PFDoA	0.117	0.119	✓
PFTeDA_1	663.0 / 619.0	3.86	2424938.70	2519.52	2635.4	False	13C2-PFTeDA	1314929.65	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.86	178670.25	2532.77	2445.1	False	13C2-PFTeDA	1314929.65	1250.00	PFTeDA	0.074	0.071	✓
PFTeDA_1	713.0 / 669.0	4.09	2713094.24	2608.63	3796.2	False	13C2-PFTeDA	1314929.65	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.09	146407.00	2396.72	2865.6	False	13C2-PFTeDA	1314929.65	1250.00	PFTeDA	0.054	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	242785.99	2316.14	630.0	False	d3-MeFOSAA	188905.28	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.14	296308.55	2770.36	4703803.8	False	d3-MeFOSAA	188905.28	1250.00	NMeFOSAA	1.220	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.31	357253.61	2406.24	3761.9	False	d5-EtFOSAA	196480.17	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.30	186233.37	2255.70	394.3	False	d5-EtFOSAA	196480.17	1250.00	NEtFOSAA	0.052	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.67	2861642.63	2916.06	5043.6	False	13C3-HFPO-DA	518826.38	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	51184.69	2391.81	51336.0	False	13C3-HFPO-DA	518826.38	1250.00	HFPO-DA	0.018	0.021	✓
ADONA_1	377.0 / 251.0	1.95	5680218.86	2472.12	12368.8	False	13C8-PFOA	1527531.26	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	79687.65	2291.60	162904.9	False	13C8-PFOA	1527531.26	1222.50	ADONA	0.014	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	3118947.84	2416.99	2999.0	False	13C8-PFOA	1527531.26	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	31623.41	2452.71	2341.2	False	13C8-PFOA	1527531.26	1222.50	9CI-PF3ONS	0.010	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	2420460.51	2597.19	3124.5	False	13C8-PFOA	1527531.26	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	13421.09	2670.88	18677.8	False	13C8-PFOA	1527531.26	1222.50	11Cl-PF3OUdS	0.006	0.006	✓



Sample Name	LD76 CCV	Injection Vial	10
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:12:18 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	676554.51	1073.82	10141.5	False	13C3-PFBS	265383.52	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	220851.71	1055.01	2724.1	False	13C3-PFBS	265383.52	1162.50	PFBS	0.326	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	1260411.73	980.63	1332.0	False	13C5-PFHxA	1338244.94	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	68251.56	851.24	2280.1	False	13C5-PFHxA	1338244.94	1250.00	PFHxA	0.054	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	915852.73	1013.74	744.9	False	13C4-PFHpA	1277784.75	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	30194.21	1140.09	25003.8	False	13C4-PFHpA	1277784.75	1250.00	PFHpA	0.033	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	668822.19	949.52	1642.1	False	13C3-PFHxS	245400.28	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	256800.68	1059.91	1429.0	False	13C3-PFHxS	245400.28	1182.50	PFHxS	0.384	0.345	✓
PFOA_1	413.0 / 369.0	2.28	1132402.85	987.44	796.3	False	13C8-PFOA	1593678.19	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	108451.86	979.99	24160.2	False	13C8-PFOA	1593678.19	1222.50	PFOA	0.096	0.096	✓
PFNA_1	463.0 / 419.0	2.65	1134867.32	1009.29	698.0	False	13C9-PFNA	1625782.09	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	349064.97	887.55	3363.1	False	13C9-PFNA	1625782.09	1250.00	PFNA	0.308	0.346	✓
PFOS_1	499.0 / 80.0	2.64	656983.00	968.63	819.8	False	13C8-PFOS	216352.03	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	138654.22	1010.32	6353.9	False	13C8-PFOS	216352.03	1195.00	PFOS	0.211	0.202	✓
PFDA_1	513.0 / 469.0	3.00	1015618.69	978.83	699.0	False	13C6-PFDA	1379755.36	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	54547.44	940.16	22214.1	False	13C6-PFDA	1379755.36	1250.00	PFDA	0.054	0.055	✓
PFUnA_1	563.0 / 519.0	3.33	1159650.89	966.51	1011.8	False	13C7-PFUnA	1322367.96	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	71211.74	931.45	1753.0	False	13C7-PFUnA	1322367.96	1250.00	PFUnA	0.061	0.063	✓
PFDoA_1	613.0 / 569.0	3.62	1205845.51	984.70	1255.1	False	13C2-PFDoA	1521301.45	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.62	136472.43	932.92	2288.7	False	13C2-PFDoA	1521301.45	1250.00	PFDoA	0.113	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.87	996511.89	958.26	1852.3	False	13C2-PFTeDA	1351476.28	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.87	68535.76	917.22	1392.3	False	13C2-PFTeDA	1351476.28	1250.00	PFTTrDA	0.069	0.071	✓
PFTeDA_1	713.0 / 669.0	4.11	1098685.38	965.61	2531.3	False	13C2-PFTeDA	1351476.28	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.11	58768.27	925.42	2053.1	False	13C2-PFTeDA	1351476.28	1250.00	PFTeDA	0.053	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.15	108655.15	1008.81	484.0	False	d3-MeFOSAA	194682.60	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.15	106671.91	933.70	2822.4	False	d3-MeFOSAA	194682.60	1250.00	NMeFOSAA	0.982	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.31	136529.27	845.17	32166.7	False	d5-EtFOSAA	205852.99	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.32	7997.47	953.33	269107.7	False	d5-EtFOSAA	205852.99	1250.00	NEtFOSAA	0.059	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.67	1120409.24	970.73	4512.2	False	13C3-HFPO-DA	499936.28	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	22654.09	903.69	3477.5	False	13C3-HFPO-DA	499936.28	1250.00	HFPO-DA	0.020	0.021	✓
ADONA_1	377.0 / 251.0	1.95	2299516.54	944.92	13678.5	False	13C8-PFOA	1593678.19	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.95	33321.90	915.29	54324.8	False	13C8-PFOA	1593678.19	1222.50	ADONA	0.014	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	1239161.41	945.74	1854.1	False	13C8-PFOA	1593678.19	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	11685.92	859.23	1437.6	False	13C8-PFOA	1593678.19	1222.50	9CI-PF3ONS	0.009	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	949739.34	984.14	2061.1	False	13C8-PFOA	1593678.19	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	4498.97	830.59	2366.0	False	13C8-PFOA	1593678.19	1222.50	11Cl-PF3OUdS	0.005	0.006	✓



Sample Name	LD77 CCV	Injection Vial	20
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:57:01 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	1700502.66	2699.11	15553.7	False	13C3-PFBS	282761.80	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	581632.25	2753.36	4071.6	False	13C3-PFBS	282761.80	1162.50	PFBS	0.342	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	3065685.07	2423.29	1736.1	False	13C5-PFHxA	1362571.41	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	174668.51	2237.83	2229.7	False	13C5-PFHxA	1362571.41	1250.00	PFHxA	0.057	0.062	✓
PFHpA_1	363.0 / 319.0	1.92	2500468.99	2858.24	1077.9	False	13C4-PFHpA	1307989.89	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.92	65918.64	2413.83	2156.8	False	13C4-PFHpA	1307989.89	1250.00	PFHpA	0.026	0.029	✓
PFHxS_1	399.0 / 80.0	1.93	1709513.61	2381.02	2536.1	False	13C3-PFHxS	254899.71	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	602043.06	2429.09	2266.9	False	13C3-PFHxS	254899.71	1182.50	PFHxS	0.352	0.345	✓
PFOA_1	413.0 / 369.0	2.28	3030730.85	2642.43	1099.9	False	13C8-PFOA	1631575.71	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.28	286579.18	2511.49	1251.4	False	13C8-PFOA	1631575.71	1222.50	PFOA	0.095	0.096	✓
PFNA_1	463.0 / 419.0	2.65	2698876.56	2541.79	981.9	False	13C9-PFNA	1604110.19	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	958053.10	2562.65	4654.4	False	13C9-PFNA	1604110.19	1250.00	PFNA	0.355	0.346	✓
PFOS_1	499.0 / 80.0	2.64	1786647.82	2647.62	1127.0	False	13C8-PFOS	218330.41	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	370322.17	2693.17	3118.4	False	13C8-PFOS	218330.41	1195.00	PFOS	0.207	0.202	✓
PFDA_1	513.0 / 469.0	3.00	2705890.26	2649.25	1107.6	False	13C6-PFDA	1425744.30	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	148621.44	2493.88	3529.8	False	13C6-PFDA	1425744.30	1250.00	PFDA	0.055	0.055	✓
PFOA_1	563.0 / 519.0	3.33	2879656.56	2336.66	1252.7	False	13C7-PFOA	1375460.42	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.33	180988.10	2270.06	8255.5	False	13C7-PFOA	1375460.42	1250.00	PFOA	0.063	0.063	✓
PFOA_3	613.0 / 569.0	3.62	3120371.34	2641.38	1670.0	False	13C2-PFOA	1540541.70	1250.00	PFOA			
PFOA_4	613.0 / 319.0	3.62	363741.78	2546.11	3581.1	False	13C2-PFOA	1540541.70	1250.00	PFOA	0.117	0.119	✓
PFTeDA_1	663.0 / 619.0	3.88	2603087.02	2681.93	2934.0	False	13C2-PFTeDA	1328585.70	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.88	179182.24	2513.59	2404.8	False	13C2-PFTeDA	1328585.70	1250.00	PFTeDA	0.069	0.071	✓
PFTeDA_3	713.0 / 669.0	4.11	2712662.84	2580.34	4027.9	False	13C2-PFTeDA	1328585.70	1250.00	PFTeDA			
PFTeDA_4	713.0 / 169.0	4.11	150981.39	2446.56	3031.1	False	13C2-PFTeDA	1328585.70	1250.00	PFTeDA	0.056	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.15	270679.90	2401.76	13500.0	False	d3-MeFOSAA	203084.88	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.15	301910.70	2622.92	4032.0	False	d3-MeFOSAA	203084.88	1250.00	NMeFOSAA	1.115	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.32	361527.62	2386.18	4615.0	False	d5-EtFOSAA	200467.35	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.32	19592.30	2324.34	13793.6	False	d5-EtFOSAA	200467.35	1250.00	NEtFOSAA	0.054	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.67	2942596.56	3069.46	6569.0	False	13C3-HFPO-DA	509645.17	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	64219.04	3154.90	6881.0	False	13C3-HFPO-DA	509645.17	1250.00	HFPO-DA	0.022	0.021	✓
ADONA_1	377.0 / 251.0	1.95	6480113.00	2642.00	44327.4	False	13C8-PFOA	1631575.71	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.95	102575.37	2762.77	58628.9	False	13C8-PFOA	1631575.71	1222.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	3419192.77	2479.62	3837.9	False	13C8-PFOA	1631575.71	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	31785.33	2307.19	225688.2	False	13C8-PFOA	1631575.71	1222.50	9CI-PF3ONS	0.009	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	2519628.44	2531.49	3285.9	False	13C8-PFOA	1631575.71	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	13814.71	2572.43	1629.7	False	13C8-PFOA	1631575.71	1222.50	11Cl-PF3OUdS	0.005	0.006	✓

Sample Name	LD76 CCV	Injection Vial	31
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:52:16 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	643456.19	1048.65	7184.1	False	13C3-PFBS	257825.78	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	223750.03	1104.43	2933.4	False	13C3-PFBS	257825.78	1162.50	PFBS	0.348	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	1223083.38	906.39	1213.4	False	13C5-PFHxA	1398562.65	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	72712.71	869.03	1145.2	False	13C5-PFHxA	1398562.65	1250.00	PFHxA	0.059	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	959839.42	1042.42	871.7	False	13C4-PFHpA	1305325.87	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	26883.22	995.66	449588.9	False	13C4-PFHpA	1305325.87	1250.00	PFHpA	0.028	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	617301.42	864.40	1247.2	False	13C3-PFHxS	248040.80	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	223523.39	908.67	1393.9	False	13C3-PFHxS	248040.80	1182.50	PFHxS	0.362	0.345	✓
PFOA_1	413.0 / 369.0	2.27	1164872.62	988.25	714.1	False	13C8-PFOA	1638080.32	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	113244.01	995.38	20859.6	False	13C8-PFOA	1638080.32	1222.50	PFOA	0.097	0.096	✓
PFNA_1	463.0 / 419.0	2.63	1055788.86	924.58	643.2	False	13C9-PFNA	1640374.92	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	372841.11	942.66	2645.4	False	13C9-PFNA	1640374.92	1250.00	PFNA	0.353	0.346	✓
PFOS_1	499.0 / 80.0	2.63	645973.02	933.19	705.6	False	13C8-PFOS	220618.69	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	156374.57	1118.65	1657.1	False	13C8-PFOS	220618.69	1195.00	PFOS	0.242	0.202	✓
PFDA_1	513.0 / 469.0	2.99	1058541.43	1024.90	1012.4	False	13C6-PFDA	1378076.04	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	59103.62	1020.70	1660.4	False	13C6-PFDA	1378076.04	1250.00	PFDA	0.056	0.055	✓
PFOA_1	563.0 / 519.0	3.32	1132992.42	943.58	840.7	False	13C7-PFOA	1322691.72	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.31	70427.79	921.01	1858.3	False	13C7-PFOA	1322691.72	1250.00	PFOA	0.062	0.063	✓
PFDoA_1	613.0 / 569.0	3.61	1230458.44	991.72	1298.8	False	13C2-PFDoA	1542200.04	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.61	137380.12	926.01	1823.9	False	13C2-PFDoA	1542200.04	1250.00	PFDoA	0.112	0.119	✓
PFTeDA_1	663.0 / 619.0	3.87	987707.70	918.06	1963.9	False	13C2-PFTeDA	1393386.05	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.87	69387.47	899.88	1468.2	False	13C2-PFTeDA	1393386.05	1250.00	PFTeDA	0.070	0.071	✓
PFTeDA_1	713.0 / 669.0	4.10	1092714.90	927.85	3078.3	False	13C2-PFTeDA	1393386.05	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.10	62291.31	951.88	1980.1	False	13C2-PFTeDA	1393386.05	1250.00	PFTeDA	0.057	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	102311.95	838.59	5936.6	False	d3-MeFOSAA	220767.34	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.14	116179.67	894.70	25026.8	False	d3-MeFOSAA	220767.34	1250.00	NMeFOSAA	1.136	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.31	141831.58	902.85	16948.4	False	d5-EtFOSAA	200918.18	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.31	10547.63	1271.07	556.0	True	d5-EtFOSAA	200918.18	1250.00	NEtFOSAA	0.074	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.66	1125265.74	1007.57	3603.5	False	13C3-HFPO-DA	488582.03	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	23819.34	999.61	179307.8	False	13C3-HFPO-DA	488582.03	1250.00	HFPO-DA	0.021	0.021	✓
ADONA_1	377.0 / 251.0	1.94	2502113.44	1001.68	9673.9	False	13C8-PFOA	1638080.32	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	31330.39	836.81	11250346.0	False	13C8-PFOA	1638080.32	1222.50	ADONA	0.013	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.84	1226606.41	912.30	1867.3	False	13C8-PFOA	1638080.32	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.84	14068.27	1008.88	6926.9	False	13C8-PFOA	1638080.32	1222.50	9CI-PF3ONS	0.011	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	977878.90	985.82	2130.2	False	13C8-PFOA	1638080.32	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	4703.41	845.49	370.4	False	13C8-PFOA	1638080.32	1222.50	11Cl-PF3OUdS	0.005	0.006	✓



Sample Name	LD77 CCV	Injection Vial	41
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:37:00 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	1691267.72	2659.87	12538.1	False	13C3-PFBS	285191.98	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	557049.19	2609.53	3914.6	False	13C3-PFBS	285191.98	1162.50	PFBS	0.329	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	3084618.36	2433.25	1610.7	False	13C5-PFHxA	1365509.09	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	177024.23	2263.87	2002.8	False	13C5-PFHxA	1365509.09	1250.00	PFHxA	0.057	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	2308737.55	2614.44	1050.9	False	13C4-PFHpA	1316462.62	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	68180.54	2480.16	2832.2	False	13C4-PFHpA	1316462.62	1250.00	PFHpA	0.030	0.029	✓
PFHxS_1	399.0 / 80.0	1.90	1633787.31	2363.57	1617.4	False	13C3-PFHxS	245383.90	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	585502.10	2454.27	4651.2	False	13C3-PFHxS	245383.90	1182.50	PFHxS	0.358	0.345	✓
PFOA_1	413.0 / 369.0	2.25	2890960.26	2548.26	1227.9	False	13C8-PFOA	1613001.69	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.24	282745.81	2506.45	2449.2	False	13C8-PFOA	1613001.69	1222.50	PFOA	0.098	0.096	✓
PFNA_1	463.0 / 419.0	2.61	2523461.38	2492.50	908.7	False	13C9-PFNA	1528619.14	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.61	907143.07	2545.97	3286.0	False	13C9-PFNA	1528619.14	1250.00	PFNA	0.359	0.346	✓
PFOS_1	499.0 / 80.0	2.60	1745382.40	2687.14	1302.6	False	13C8-PFOS	210176.38	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.60	366276.42	2767.41	2518.7	False	13C8-PFOS	210176.38	1195.00	PFOS	0.210	0.202	✓
PFDA_1	513.0 / 469.0	2.96	2538698.81	2559.11	972.4	False	13C6-PFDA	1383349.46	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.96	154709.77	2676.27	3516.6	False	13C6-PFDA	1383349.46	1250.00	PFDA	0.061	0.055	✓
PFUnA_1	563.0 / 519.0	3.28	2753590.33	2272.80	1405.0	False	13C7-PFUnA	1351862.43	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.27	170483.97	2175.80	2929.7	False	13C7-PFUnA	1351862.43	1250.00	PFUnA	0.062	0.063	✓
PFDoA_1	613.0 / 569.0	3.56	2989782.56	2505.26	1818.7	False	13C2-PFDoA	1553775.99	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.56	352978.95	2447.63	2100.3	False	13C2-PFDoA	1553775.99	1250.00	PFDoA	0.118	0.119	✓
PFTeDA_1	663.0 / 619.0	3.81	2572919.93	2589.24	2267.5	False	13C2-PFTeDA	1358753.60	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.81	179183.33	2456.80	1829.5	False	13C2-PFTeDA	1358753.60	1250.00	PFTeDA	0.070	0.071	✓
PFTeDA_1	713.0 / 669.0	4.04	2772506.21	2578.64	2935.2	False	13C2-PFTeDA	1358753.60	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.04	157181.78	2490.79	3031.9	False	13C2-PFTeDA	1358753.60	1250.00	PFTeDA	0.057	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.10	238119.86	2087.23	762.9	False	d3-MeFOSAA	205646.98	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.10	290342.57	2488.36	1863.3	False	d3-MeFOSAA	205646.98	1250.00	NMeFOSAA	1.219	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.27	354384.70	2396.22	1880.7	False	d5-EtFOSAA	195700.42	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.27	20240.58	2456.90	15178.4	False	d5-EtFOSAA	195700.42	1250.00	NEtFOSAA	0.057	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.65	2762656.42	3060.66	1948.0	True	13C3-HFPO-DA	479711.33	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	53676.81	2761.16	54829.4	False	13C3-HFPO-DA	479711.33	1250.00	HFPO-DA	0.019	0.021	✓
ADONA_1	377.0 / 251.0	1.92	6327989.95	2609.40	97229.0	False	13C8-PFOA	1613001.69	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.92	86496.58	2355.75	7203061.2	False	13C8-PFOA	1613001.69	1222.50	ADONA	0.014	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.81	3223888.00	2366.80	2955.6	False	13C8-PFOA	1613001.69	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.81	33911.49	2491.03	3990243.9	False	13C8-PFOA	1613001.69	1222.50	9CI-PF3ONS	0.011	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.43	2407433.97	2447.02	3685.9	False	13C8-PFOA	1613001.69	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.43	14567.42	2746.53	802.3	False	13C8-PFOA	1613001.69	1222.50	11Cl-PF3OUdS	0.006	0.006	✓

Sample Name	LD76 CCV	Injection Vial	51
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:22:06 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	681673.30	1054.53	7947.3	False	13C3-PFBS	271775.05	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	226357.15	1055.96	2278.3	False	13C3-PFBS	271775.05	1162.50	PFBS	0.332	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	1260734.51	927.10	1143.1	False	13C5-PFHxA	1411318.23	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	72703.73	860.47	1087.9	False	13C5-PFHxA	1411318.23	1250.00	PFHxA	0.058	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	922481.21	963.63	698.2	False	13C4-PFHpA	1348093.93	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	23762.12	854.39	25058.0	False	13C4-PFHpA	1348093.93	1250.00	PFHpA	0.026	0.029	✓
PFHxS_1	399.0 / 80.0	1.90	653059.19	965.49	1611.3	False	13C3-PFHxS	235772.96	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	244359.62	1049.46	2153.6	False	13C3-PFHxS	235772.96	1182.50	PFHxS	0.374	0.345	✓
PFOA_1	413.0 / 369.0	2.26	1209482.97	1029.41	750.7	False	13C8-PFOA	1635214.81	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	104103.87	917.54	956.3	False	13C8-PFOA	1635214.81	1222.50	PFOA	0.086	0.096	✓
PFNA_1	463.0 / 419.0	2.62	1035317.03	968.50	773.2	False	13C9-PFNA	1541008.53	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	352262.84	948.36	3003.4	False	13C9-PFNA	1541008.53	1250.00	PFNA	0.340	0.346	✓
PFOS_1	499.0 / 80.0	2.61	694165.39	952.34	740.1	False	13C8-PFOS	232419.35	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	132987.36	900.79	1678.5	False	13C8-PFOS	232419.35	1195.00	PFOS	0.192	0.202	✓
PFDA_1	513.0 / 469.0	2.97	1028728.25	976.46	663.9	False	13C6-PFDA	1400706.04	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.97	62565.91	1063.41	47658.4	False	13C6-PFDA	1400706.04	1250.00	PFDA	0.061	0.055	✓
PFUnA_1	563.0 / 519.0	3.30	1180152.39	975.14	894.4	False	13C7-PFUnA	1334099.65	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	74780.74	969.36	6372.3	False	13C7-PFUnA	1334099.65	1250.00	PFUnA	0.063	0.063	✓
PFDoA_1	613.0 / 569.0	3.59	1222553.41	989.25	1268.4	False	13C2-PFDoA	1535816.77	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	134232.74	907.51	1949.3	False	13C2-PFDoA	1535816.77	1250.00	PFDoA	0.110	0.119	✓
PFTeDA_1	663.0 / 619.0	3.84	1012157.30	969.29	2038.2	False	13C2-PFTeDA	1358296.13	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.84	72127.14	962.55	1837.1	False	13C2-PFTeDA	1358296.13	1250.00	PFTeDA	0.071	0.071	✓
PFTeDA_3	713.0 / 669.0	4.07	1103414.66	964.82	2343.1	False	13C2-PFTeDA	1358296.13	1250.00	PFTeDA			
PFTeDA_4	713.0 / 169.0	4.07	62920.22	986.96	2273.6	False	13C2-PFTeDA	1358296.13	1250.00	PFTeDA	0.057	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.12	108012.97	1042.53	659.6	False	d3-MeFOSAA	187240.55	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	114659.53	1049.66	173385.9	False	d3-MeFOSAA	187240.55	1250.00	NMeFOSAA	1.062	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.29	147001.42	950.56	5788.5	False	d5-EtFOSAA	198325.63	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.30	9718.80	1189.75	45930.1	False	d5-EtFOSAA	198325.63	1250.00	NEtFOSAA	0.066	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.65	1160837.98	1146.46	1419.2	True	13C3-HFPO-DA	457577.88	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	26967.28	1283.69	1431.6	False	13C3-HFPO-DA	457577.88	1250.00	HFPO-DA	0.023	0.021	✓
ADONA_1	377.0 / 251.0	1.93	2533027.75	1016.16	10588.5	False	13C8-PFOA	1635214.81	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	35658.61	954.82	3968973.1	False	13C8-PFOA	1635214.81	1222.50	ADONA	0.014	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.82	1239951.25	923.32	1756.6	False	13C8-PFOA	1635214.81	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	14734.16	1059.20	4889.2	False	13C8-PFOA	1635214.81	1222.50	9CI-PF3ONS	0.012	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	953532.72	963.23	2095.2	False	13C8-PFOA	1635214.81	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	4098.21	732.82	1217.8	False	13C8-PFOA	1635214.81	1222.50	11Cl-PF3OUdS	0.004	0.006	✓



Sample Name	LD77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:06:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	1651247.88	2916.85	50570.3	False	13C3-PFBS	254898.74	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	565160.31	2975.54	3642.7	False	13C3-PFBS	254898.74	1162.50	PFBS	0.342	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	2936045.86	2501.50	1876.4	False	13C5-PFHxA	1265077.88	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	176963.79	2447.88	1571.2	False	13C5-PFHxA	1265077.88	1250.00	PFHxA	0.060	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	2314972.71	2839.04	1121.2	False	13C4-PFHpA	1218889.77	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	70011.73	2748.94	16894.2	False	13C4-PFHpA	1218889.77	1250.00	PFHpA	0.030	0.029	✓
PFHxS_1	399.0 / 80.0	1.90	1605683.07	2573.28	2064.0	False	13C3-PFHxS	221739.38	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	594261.98	2760.21	2141.0	False	13C3-PFHxS	221739.38	1182.50	PFHxS	0.370	0.345	✓
PFOA_1	413.0 / 369.0	2.25	2754963.18	2361.99	1055.1	False	13C8-PFOA	1656429.85	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	269533.99	2327.50	3056.2	False	13C8-PFOA	1656429.85	1222.50	PFOA	0.098	0.096	✓
PFNA_1	463.0 / 419.0	2.62	2768172.13	2643.32	991.5	False	13C9-PFNA	1583900.61	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	907522.31	2456.32	4857.2	False	13C9-PFNA	1583900.61	1250.00	PFNA	0.328	0.346	✓
PFOS_1	499.0 / 80.0	2.61	1690229.49	2536.15	999.8	False	13C8-PFOS	215547.98	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	344948.79	2540.36	2137.8	False	13C8-PFOS	215547.98	1195.00	PFOS	0.204	0.202	✓
PFDA_1	513.0 / 469.0	2.97	2501888.19	2653.18	980.9	False	13C6-PFDA	1316362.59	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.97	143325.11	2605.25	11400.8	False	13C6-PFDA	1316362.59	1250.00	PFDA	0.057	0.055	✓
PFUnA_1	563.0 / 519.0	3.30	2775039.13	2537.24	1275.7	False	13C7-PFUnA	1221570.59	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	175648.33	2480.24	2590.7	False	13C7-PFUnA	1221570.59	1250.00	PFUnA	0.063	0.063	✓
PFDoA_1	613.0 / 569.0	3.59	2961719.00	2615.08	1779.1	False	13C2-PFDoA	1476481.73	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	349573.27	2553.25	2655.8	False	13C2-PFDoA	1476481.73	1250.00	PFDoA	0.118	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.84	2411831.47	2646.61	2883.1	False	13C2-PFTTeDA	1246905.19	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.84	175140.95	2619.70	2054.1	False	13C2-PFTTeDA	1246905.19	1250.00	PFTTrDA	0.073	0.071	✓
PFTTeDA_1	713.0 / 669.0	4.07	2593127.20	2630.12	2827.0	False	13C2-PFTTeDA	1246905.19	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.07	149508.76	2582.35	2533.8	False	13C2-PFTTeDA	1246905.19	1250.00	PFTTeDA	0.058	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.12	256442.43	2603.20	7754.9	False	d3-MeFOSAA	177483.22	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	260772.98	2591.71	1718.2	False	d3-MeFOSAA	177483.22	1250.00	NMeFOSAA	1.017	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.29	352660.95	2345.03	13592.0	False	d5-EtFOSAA	198908.44	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.29	21472.02	2562.21	7179.8	False	d5-EtFOSAA	198908.44	1250.00	NEtFOSAA	0.061	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.65	2733049.80	3242.82	2125.7	True	13C3-HFPO-DA	450580.12	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	50276.60	2752.46	13835.6	False	13C3-HFPO-DA	450580.12	1250.00	HFPO-DA	0.018	0.021	✓
ADONA_1	377.0 / 251.0	1.93	5820956.12	2334.95	8634.8	False	13C8-PFOA	1656429.85	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	90680.39	2405.06	87984.1	False	13C8-PFOA	1656429.85	1222.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.82	3094190.46	2214.70	2631.0	False	13C8-PFOA	1656429.85	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.82	36155.39	2586.79	15120.8	False	13C8-PFOA	1656429.85	1222.50	9CI-PF3ONS	0.012	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	2287501.44	2265.03	2942.9	False	13C8-PFOA	1656429.85	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	10976.11	2004.35	1385.7	False	13C8-PFOA	1656429.85	1222.50	11Cl-PF3OUdS	0.005	0.006	✓

Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:17:43 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.34	604335.97	1056.12	9041.6	False	13C3-PFBS	240616.11	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.34	204211.62	1077.90	2893.8	False	13C3-PFBS	240616.11	1162.50	PFBS	0.338	0.331	✓
PFHxA_1	313.0 / 269.0	1.60	1018340.99	929.13	1560.1	False	13C5-PFHxA	1137622.12	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.60	64399.45	951.98	1409.9	False	13C5-PFHxA	1137622.12	1250.00	PFHxA	0.063	0.062	✓
PFHpA_1	363.0 / 319.0	1.93	842288.71	1098.85	835.5	False	13C4-PFHpA	1091208.79	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.94	18456.32	820.47	14027666.9	False	13C4-PFHpA	1091208.79	1250.00	PFHpA	0.022	0.029	✓
PFHxS_1	399.0 / 80.0	1.94	578672.67	910.40	1115.6	False	13C3-PFHxS	221149.99	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.94	208721.24	953.06	1488.9	False	13C3-PFHxS	221149.99	1182.50	PFHxS	0.361	0.345	✓
PFOA_1	413.0 / 369.0	2.30	935747.17	944.93	718.5	False	13C8-PFOA	1373883.92	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.30	92560.35	970.31	27001.5	False	13C8-PFOA	1373883.92	1222.50	PFOA	0.099	0.096	✓
PFNA_1	463.0 / 419.0	2.67	841590.42	1001.29	687.6	False	13C9-PFNA	1214586.43	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.67	304170.71	1043.99	2095.8	False	13C9-PFNA	1214586.43	1250.00	PFNA	0.361	0.346	✓
PFOS_1	499.0 / 80.0	2.66	574388.43	948.06	664.6	False	13C8-PFOS	193164.72	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.66	127213.14	1038.55	1709.9	False	13C8-PFOS	193164.72	1195.00	PFOS	0.221	0.202	✓
PFDA_1	513.0 / 469.0	3.03	860570.70	927.96	657.5	False	13C6-PFDA	1228149.57	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.02	43362.22	838.65	15274.5	False	13C6-PFDA	1228149.57	1250.00	PFDA	0.050	0.055	✓
PFOA_1	563.0 / 519.0	3.36	985352.86	985.65	1084.3	False	13C7-PFOA	1102258.37	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.35	62675.25	983.26	1901.0	False	13C7-PFOA	1102258.37	1250.00	PFOA	0.064	0.063	✓
PFDoA_1	613.0 / 569.0	3.65	1024834.50	970.50	1146.1	False	13C2-PFDoA	1310415.04	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.65	115150.98	912.72	1497.7	False	13C2-PFDoA	1310415.04	1250.00	PFDoA	0.112	0.119	✓
PFTeDA_1	663.0 / 619.0	3.91	864483.21	957.25	2012.6	False	13C2-PFTeDA	1173559.06	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.91	61048.73	942.04	1710.2	False	13C2-PFTeDA	1173559.06	1250.00	PFTeDA	0.071	0.071	✓
PFTeDA_1	713.0 / 669.0	4.15	994078.00	1010.43	3192.7	False	13C2-PFTeDA	1173559.06	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.15	51402.73	932.27	2475.0	False	13C2-PFTeDA	1173559.06	1250.00	PFTeDA	0.052	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.18	94428.03	1092.02	522.0	False	d3-MeFOSAA	156236.04	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.17	103527.75	1140.13	28114.3	False	d3-MeFOSAA	156236.04	1250.00	NMeFOSAA	1.096	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.35	125828.94	908.06	2601.5	False	d5-EtFOSAA	177281.31	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.34	8968.39	1226.63	7745.9	False	d5-EtFOSAA	177281.31	1250.00	NEtFOSAA	0.071	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.69	934635.33	808.69	4525.4	False	13C3-HFPO-DA	474829.16	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.69	15608.99	556.61	80687.1	False	13C3-HFPO-DA	474829.16	1250.00	HFPO-DA	0.017	0.021	✓
ADONA_1	377.0 / 251.0	1.96	1966365.77	937.10	6128.6	False	13C8-PFOA	1373883.92	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.97	27167.84	865.35	791.0	False	13C8-PFOA	1373883.92	1222.50	ADONA	0.014	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.87	1052406.72	932.32	1424.0	False	13C8-PFOA	1373883.92	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.87	14167.53	1214.33	9320.7	True	13C8-PFOA	1373883.92	1222.50	9CI-PF3ONS	0.013	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.51	831853.69	999.70	2061.5	False	13C8-PFOA	1373883.92	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.51	4987.84	1079.78	3825.0	False	13C8-PFOA	1373883.92	1222.50	11Cl-PF3OUdS	0.006	0.006	✓

Sample Name	LD77 CCV	Injection Vial	12
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:02:17 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	1828459.77	2797.68	15799.7	False	13C3-PFBS	293773.76	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	617775.84	2817.05	5149.7	False	13C3-PFBS	293773.76	1162.50	PFBS	0.338	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	3095900.97	2464.29	2056.0	False	13C5-PFHxA	1353637.90	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	197641.11	2557.89	2074.6	False	13C5-PFHxA	1353637.90	1250.00	PFHxA	0.064	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	2323354.01	2734.07	1474.7	False	13C4-PFHpA	1268727.60	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	72820.49	2746.92	30159866.1	False	13C4-PFHpA	1268727.60	1250.00	PFHpA	0.031	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	1712109.15	2476.65	1912.8	False	13C3-PFHxS	245548.97	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	603524.85	2528.99	2690.2	False	13C3-PFHxS	245548.97	1182.50	PFHxS	0.353	0.345	✓
PFOA_1	413.0 / 369.0	2.28	3125396.17	2639.39	1203.3	False	13C8-PFOA	1684448.86	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.28	269259.24	2286.65	8946.8	False	13C8-PFOA	1684448.86	1222.50	PFOA	0.086	0.096	✓
PFNA_1	463.0 / 419.0	2.65	2705072.99	2573.10	1118.8	False	13C9-PFNA	1588802.22	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	949508.77	2564.30	3360.1	False	13C9-PFNA	1588802.22	1250.00	PFNA	0.351	0.346	✓
PFOS_1	499.0 / 80.0	2.64	1840249.96	2520.77	1017.5	False	13C8-PFOS	236099.80	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	378588.83	2545.43	6011.7	False	13C8-PFOS	236099.80	1195.00	PFOS	0.206	0.202	✓
PFDA_1	513.0 / 469.0	3.00	2709852.96	2748.75	1149.6	False	13C6-PFDA	1377603.57	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	146982.41	2552.78	24748.9	False	13C6-PFDA	1377603.57	1250.00	PFDA	0.054	0.055	✓
PFOA_1	563.0 / 519.0	3.33	2900236.05	2302.88	1376.7	False	13C7-PFOA	1405423.99	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.33	181637.86	2229.71	805366.7	False	13C7-PFOA	1405423.99	1250.00	PFOA	0.063	0.063	✓
PFDoA_1	613.0 / 569.0	3.62	3056681.34	2600.97	1665.0	False	13C2-PFDoA	1531840.57	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.62	376968.81	2656.03	2932.9	False	13C2-PFDoA	1531840.57	1250.00	PFDoA	0.123	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.88	2603986.39	2755.67	3029.4	False	13C2-PFTTeDA	1294502.93	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.88	186242.19	2684.40	2638.3	False	13C2-PFTTeDA	1294502.93	1250.00	PFTTrDA	0.072	0.071	✓
PFTTeDA_1	713.0 / 669.0	4.11	2665406.04	2603.01	3763.1	False	13C2-PFTTeDA	1294502.93	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.11	153222.06	2548.96	2704.7	False	13C2-PFTTeDA	1294502.93	1250.00	PFTTeDA	0.057	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.15	292536.42	2453.82	624.1	False	d3-MeFOSAA	214816.05	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.15	300017.08	2460.96	9666.3	False	d3-MeFOSAA	214816.05	1250.00	NMeFOSAA	1.026	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.32	358643.68	2348.80	4813.0	False	d5-EtFOSAA	201965.45	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.32	22746.64	2671.11	8442.0	False	d5-EtFOSAA	201965.45	1250.00	NEtFOSAA	0.063	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.67	2857158.24	3064.76	5486.8	False	13C3-HFPO-DA	495526.69	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	53011.83	2624.09	457664.4	False	13C3-HFPO-DA	495526.69	1250.00	HFPO-DA	0.019	0.021	✓
ADONA_1	377.0 / 251.0	1.95	5839949.75	2303.29	9936.6	False	13C8-PFOA	1684448.86	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	83754.37	2183.93	12999.1	False	13C8-PFOA	1684448.86	1222.50	ADONA	0.014	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	3412723.14	2398.60	3142.4	False	13C8-PFOA	1684448.86	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	30390.16	2135.59	851.1	False	13C8-PFOA	1684448.86	1222.50	9CI-PF3ONS	0.009	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	2450502.29	2385.44	3234.3	False	13C8-PFOA	1684448.86	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	12955.92	2333.06	10466.1	False	13C8-PFOA	1684448.86	1222.50	11Cl-PF3OUdS	0.005	0.006	✓



Sample Name	LD76 CCV	Injection Vial	23
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:57:25 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	699356.51	1044.02	9970.1	False	13C3-PFBS	281336.24	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	231215.24	1040.66	2783.8	False	13C3-PFBS	281336.24	1162.50	PFBS	0.331	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	1313178.66	976.41	1083.9	False	13C5-PFHxA	1399956.13	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	77876.84	934.36	1281.3	False	13C5-PFHxA	1399956.13	1250.00	PFHxA	0.059	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	975033.09	1128.87	768.6	False	13C4-PFHpA	1232135.63	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	26319.11	1032.09	543626.6	False	13C4-PFHpA	1232135.63	1250.00	PFHpA	0.027	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	673419.55	934.39	1007.8	False	13C3-PFHxS	250959.42	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	235899.55	949.10	1370.2	False	13C3-PFHxS	250959.42	1182.50	PFHxS	0.350	0.345	✓
PFOA_1	413.0 / 369.0	2.26	1250135.41	1076.09	733.7	False	13C8-PFOA	1619354.50	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	115164.89	1023.64	1119.5	False	13C8-PFOA	1619354.50	1222.50	PFOA	0.092	0.096	✓
PFNA_1	463.0 / 419.0	2.63	1161764.32	1039.68	675.8	False	13C9-PFNA	1619040.73	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	380281.11	975.90	2175.7	False	13C9-PFNA	1619040.73	1250.00	PFNA	0.327	0.346	✓
PFOS_1	499.0 / 80.0	2.62	725006.05	968.02	642.1	False	13C8-PFOS	238900.86	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	153189.79	1010.89	1075.9	False	13C8-PFOS	238900.86	1195.00	PFOS	0.211	0.202	✓
PFDA_1	513.0 / 469.0	2.98	1082437.62	969.67	668.3	False	13C6-PFDA	1483368.23	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	62757.89	1006.75	1433.3	False	13C6-PFDA	1483368.23	1250.00	PFDA	0.058	0.055	✓
PFUnA_1	563.0 / 519.0	3.31	1191137.71	958.39	877.2	False	13C7-PFUnA	1369536.04	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	67277.59	850.04	3638.3	False	13C7-PFUnA	1369536.04	1250.00	PFUnA	0.056	0.063	✓
PFDoA_1	613.0 / 569.0	3.60	1254151.91	979.97	1268.1	False	13C2-PFDoA	1589300.94	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.60	144006.07	942.86	1904.3	False	13C2-PFDoA	1589300.94	1250.00	PFDoA	0.115	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.86	1019761.70	941.90	1647.6	False	13C2-PFTTeDA	1405103.72	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.86	73724.26	950.55	1413.4	False	13C2-PFTTeDA	1405103.72	1250.00	PFTTrDA	0.072	0.071	✓
PFTTeDA_1	713.0 / 669.0	4.10	1157376.28	979.73	2430.8	False	13C2-PFTTeDA	1405103.72	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.09	64735.87	981.52	2198.4	False	13C2-PFTTeDA	1405103.72	1250.00	PFTTeDA	0.056	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.13	108340.86	963.01	1486.2	False	d3-MeFOSAA	203404.46	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	117725.62	989.22	2145.7	False	d3-MeFOSAA	203404.46	1250.00	NMeFOSAA	1.087	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.30	162383.39	997.76	11572.1	False	d5-EtFOSAA	209218.65	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.30	9280.73	1081.59	668.7	False	d5-EtFOSAA	209218.65	1250.00	NEtFOSAA	0.057	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.66	1198562.87	1159.19	4478.0	False	13C3-HFPO-DA	468492.63	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	25396.19	1151.83	1239.0	False	13C3-HFPO-DA	468492.63	1250.00	HFPO-DA	0.021	0.021	✓
ADONA_1	377.0 / 251.0	1.93	2517349.98	1019.84	9204.8	False	13C8-PFOA	1619354.50	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	38134.68	1031.55	261346.5	False	13C8-PFOA	1619354.50	1222.50	ADONA	0.015	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	1317177.07	987.46	1563.0	False	13C8-PFOA	1619354.50	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	15831.50	1150.49	48850.5	False	13C8-PFOA	1619354.50	1222.50	9CI-PF3ONS	0.012	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	958770.82	977.83	2165.3	False	13C8-PFOA	1619354.50	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	5717.46	1048.99	2198.9	False	13C8-PFOA	1619354.50	1222.50	11Cl-PF3OUdS	0.006	0.006	✓

Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 11:10:40 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	1762753.19	2853.38	12794.6	False	13C3-PFBS	277915.33	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	609500.72	2942.15	5264.8	False	13C3-PFBS	277915.33	1162.50	PFBS	0.346	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	3023230.51	2435.85	2031.2	False	13C5-PFHxA	1336938.61	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	191191.10	2503.98	1774.3	False	13C5-PFHxA	1336938.61	1250.00	PFHxA	0.063	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	2409997.20	2894.99	1234.5	False	13C4-PFHpA	1245157.84	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	68717.36	2641.81	401901.4	False	13C4-PFHpA	1245157.84	1250.00	PFHpA	0.029	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	1736855.84	2356.67	2697.9	False	13C3-PFHxS	261618.05	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	629526.90	2475.31	2556.5	False	13C3-PFHxS	261618.05	1182.50	PFHxS	0.362	0.345	✓
PFOA_1	413.0 / 369.0	2.27	3032729.11	2711.96	1098.4	False	13C8-PFOA	1591369.26	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	288586.11	2592.60	2059.6	False	13C8-PFOA	1591369.26	1222.50	PFOA	0.095	0.096	✓
PFNA_1	463.0 / 419.0	2.64	2822657.20	2485.68	1010.6	False	13C9-PFNA	1714407.69	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	974461.72	2436.31	3633.8	False	13C9-PFNA	1714407.69	1250.00	PFNA	0.345	0.346	✓
PFOS_1	499.0 / 80.0	2.63	1861320.43	2389.16	1047.9	False	13C8-PFOS	251837.29	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	375772.03	2367.80	3577.1	False	13C8-PFOS	251837.29	1195.00	PFOS	0.202	0.202	✓
PFDA_1	513.0 / 469.0	2.99	2748182.47	2708.74	1218.1	False	13C6-PFDA	1417133.03	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	163982.41	2769.36	2427.4	False	13C6-PFDA	1417133.03	1250.00	PFDA	0.060	0.055	✓
PFOA_1	563.0 / 519.0	3.32	2941119.57	2349.88	1399.7	False	13C7-PFOA	1396983.55	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.32	193927.98	2394.66	3618.6	False	13C7-PFOA	1396983.55	1250.00	PFOA	0.066	0.063	✓
PFDoA_1	613.0 / 569.0	3.61	3065460.49	2616.24	1883.4	False	13C2-PFDoA	1527538.44	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.61	364996.38	2577.31	2680.8	False	13C2-PFDoA	1527538.44	1250.00	PFDoA	0.119	0.119	✓
PFTeDA_1	663.0 / 619.0	3.87	2534807.79	2537.21	3219.8	False	13C2-PFTeDA	1365220.17	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.87	186553.47	2547.36	2816.7	False	13C2-PFTeDA	1365220.17	1250.00	PFTeDA	0.074	0.071	✓
PFTeDA_1	713.0 / 669.0	4.10	2866405.92	2656.32	4115.6	False	13C2-PFTeDA	1365220.17	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.10	157904.67	2490.39	3254.4	False	13C2-PFTeDA	1365220.17	1250.00	PFTeDA	0.055	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	259671.21	2335.88	50156.2	False	d3-MeFOSAA	200332.47	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.14	292299.07	2573.33	3246.2	False	d3-MeFOSAA	200332.47	1250.00	NMeFOSAA	1.126	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.31	385236.12	2352.12	4629.8	False	d5-EtFOSAA	216641.07	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.31	25372.94	2775.73	319.1	False	d5-EtFOSAA	216641.07	1250.00	NEtFOSAA	0.066	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.66	2876800.38	3086.66	7079.5	False	13C3-HFPO-DA	495764.07	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	58448.84	2928.62	1977.9	False	13C3-HFPO-DA	495764.07	1250.00	HFPO-DA	0.020	0.021	✓
ADONA_1	377.0 / 251.0	1.94	6026176.50	2517.91	10848.4	False	13C8-PFOA	1591369.26	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	97797.67	2700.52	41206814.7	False	13C8-PFOA	1591369.26	1222.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.84	3470738.08	2578.93	2442.9	False	13C8-PFOA	1591369.26	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.84	36279.10	2702.42	1437.9	False	13C8-PFOA	1591369.26	1222.50	9CI-PF3ONS	0.010	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	2475258.92	2549.66	2911.9	False	13C8-PFOA	1591369.26	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	13852.96	2645.86	36445.4	False	13C8-PFOA	1591369.26	1222.50	11Cl-PF3OUdS	0.006	0.006	✓

Sample Name	LD81 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 4:20:54 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	1365792.14	1148.32	3622.9	False	13C2-PFDA	1091658.34	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	194671.33	1207.29	1176.7	False	13C4-PFOS	226332.68	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	196438.11	1276.47	1110.1	False	13C4-PFOS	226332.68	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1246927.93	1270.24	7357.2	False	13C2-PFOA	772983.68	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1276300.03	1318.03	2177237.1	False	13C2-PFOA	772983.68	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1496044.31	1189.74	17592.8	False	13C2-PFOA	772983.68	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1483568.59	1164.10	6340.0	False	13C4-PFOS	226332.68	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1229161.41	1171.08	5731.7	False	13C2-PFDA	1091658.34	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1218358.02	1280.83	3084.1	False	13C2-PFDA	1091658.34	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1251283.22	1226.24	4499.7	False	13C2-PFDA	1091658.34	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	259888.24	1020.80	4401.1	False	13C4-PFOS	226332.68	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	233731.75	1137.02	7034.8	False	13C4-PFOS	226332.68	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	217801.21	1108.74	1777.9	False	13C4-PFOS	226332.68	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	511665.42	1240.92	143287.2	False	13C2-PFOA	772983.68	1250.00		N/A	N/A	✓

Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 9:34:18 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.73	1152409.05	1056.38	9040.6	False	13C2-PFDA	1001271.40	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.24	143581.02	1190.49	1254.2	False	13C4-PFOS	169289.53	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.41	155700.92	1352.68	1587.2	False	13C4-PFOS	169289.53	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.61	1029112.07	1195.44	21997.2	False	13C2-PFOA	677878.24	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.96	1015509.28	1195.85	600275.4	False	13C2-PFOA	677878.24	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.33	1345790.96	1220.40	16599.9	False	13C2-PFOA	677878.24	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.72	1161198.27	1218.17	4680.7	False	13C4-PFOS	169289.53	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.09	1034775.07	1074.88	1578.8	False	13C2-PFDA	1001271.40	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.42	989901.35	1134.60	4425.5	False	13C2-PFDA	1001271.40	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.23	1208825.92	1291.57	4822.9	False	13C2-PFDA	1001271.40	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.34	224098.20	1176.82	80587.3	False	13C4-PFOS	169289.53	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.97	195829.82	1273.64	7170.9	False	13C4-PFOS	169289.53	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.72	186256.46	1267.64	1823.3	False	13C4-PFOS	169289.53	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.71	505067.40	1396.77	9566.5	False	13C2-PFOA	677878.24	1250.00		N/A	N/A	✓



Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:17:09 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	1471976.01	1151.31	5094.6	False	13C2-PFDA	1173469.05	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	189566.61	1297.26	1121.9	False	13C4-PFOS	205112.33	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	195937.77	1404.94	1257.5	False	13C4-PFOS	205112.33	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1340209.19	1235.12	6838.0	False	13C2-PFOA	854433.38	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1227650.52	1146.94	2577.8	False	13C2-PFOA	854433.38	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1527531.26	1098.98	5435591.0	False	13C2-PFOA	854433.38	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1561122.21	1351.69	11624.2	False	13C4-PFOS	205112.33	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1296071.59	1148.74	5433.8	False	13C2-PFDA	1173469.05	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1330397.82	1301.11	3491.2	False	13C2-PFDA	1173469.05	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1314929.65	1198.77	4434.4	False	13C2-PFDA	1173469.05	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	263124.50	1140.44	14977.2	False	13C4-PFOS	205112.33	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	221559.86	1189.32	3992916.2	False	13C4-PFOS	205112.33	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	233743.08	1313.00	1311.2	False	13C4-PFOS	205112.33	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	518826.38	1138.34	18800.8	False	13C2-PFOA	854433.38	1250.00		N/A	N/A	✓

Sample Name	LD76 CCV	Injection Vial	10
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:12:18 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	1521301.45	1177.02	6908.2	False	13C2-PFDA	1186301.21	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	196003.00	1236.46	1420.6	False	13C4-PFOS	222505.79	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	205800.70	1360.31	1413.7	False	13C4-PFOS	222505.79	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1338244.94	1381.16	10354.5	False	13C2-PFOA	762968.86	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1277784.75	1336.89	10429.9	False	13C2-PFOA	762968.86	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1593678.19	1284.02	72912.7	False	13C2-PFOA	762968.86	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1625782.09	1297.64	4846.7	False	13C4-PFOS	222505.79	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	1379755.36	1209.69	6203.4	False	13C2-PFDA	1186301.21	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1322367.96	1279.26	5480.7	False	13C2-PFDA	1186301.21	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1351476.28	1218.76	4606.0	False	13C2-PFDA	1186301.21	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	265383.52	1060.32	3203.1	False	13C4-PFOS	222505.79	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	245400.28	1214.32	49812732.5	False	13C4-PFOS	222505.79	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	216352.03	1120.30	2450.0	False	13C4-PFOS	222505.79	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	499936.28	1228.39	15196.1	False	13C2-PFOA	762968.86	1250.00		N/A	N/A	✓

Sample Name	LD77 CCV	Injection Vial	20
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:57:01 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	1540541.70	1247.07	4498.2	False	13C2-PFDA	1133823.98	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	203675.04	1256.37	1219.0	False	13C4-PFOS	227551.27	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	200132.96	1293.52	1087.1	False	13C4-PFOS	227551.27	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1362571.41	1315.32	7901.7	False	13C2-PFOA	815726.64	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.91	1307989.89	1279.98	14928.3	False	13C2-PFOA	815726.64	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1631575.71	1229.53	100725.7	False	13C2-PFOA	815726.64	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1604110.19	1251.95	3852.7	False	13C4-PFOS	227551.27	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	1425744.30	1307.86	441690.7	False	13C2-PFDA	1133823.98	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1375460.42	1392.21	9711.9	False	13C2-PFDA	1133823.98	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	1328585.70	1253.57	4984.1	False	13C2-PFDA	1133823.98	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	282761.80	1104.70	9659.9	False	13C4-PFOS	227551.27	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	254899.71	1233.35	9540845.3	False	13C4-PFOS	227551.27	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	218330.41	1105.48	1742.0	False	13C4-PFOS	227551.27	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	509645.17	1171.26	37339.7	False	13C2-PFOA	815726.64	1250.00		N/A	N/A	✓

Sample Name	LD76 CCV	Injection Vial	31
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:52:16 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1542200.04	1175.97	5321.3	False	13C2-PFDA	1203672.52	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	221161.07	1426.60	1356.5	False	13C4-PFOS	217602.73	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	200495.50	1355.10	1222.7	False	13C4-PFOS	217602.73	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1398562.65	1366.08	6820.3	False	13C2-PFOA	806159.04	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1305325.87	1292.54	15144.8	False	13C2-PFOA	806159.04	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1638080.32	1249.08	58796.1	False	13C2-PFOA	806159.04	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1640374.92	1338.78	6198.6	False	13C4-PFOS	217602.73	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1378076.04	1190.78	10498.5	False	13C2-PFDA	1203672.52	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1322691.72	1261.11	4592.7	False	13C2-PFDA	1203672.52	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1393386.05	1238.42	4139.6	False	13C2-PFDA	1203672.52	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	257825.78	1053.33	8484.2	False	13C4-PFOS	217602.73	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	248040.80	1255.04	243412.6	False	13C4-PFOS	217602.73	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	220618.69	1168.14	4927.1	False	13C4-PFOS	217602.73	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	488582.03	1136.17	6589.2	False	13C2-PFOA	806159.04	1250.00		N/A	N/A	✓

Sample Name	LD77 CCV	Injection Vial	41
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:37:00 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.56	1553775.99	1174.37	6455.4	False	13C2-PFDA	1214355.92	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.10	203286.34	1240.74	898.0	False	13C4-PFOS	229977.24	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.26	195762.08	1251.92	1121.2	False	13C4-PFOS	229977.24	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1365509.09	1270.64	10612.1	False	13C2-PFOA	846225.52	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	1316462.62	1241.84	18876.4	False	13C2-PFOA	846225.52	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1613001.69	1171.73	1873813.5	False	13C2-PFOA	846225.52	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.60	1528619.14	1180.45	86888.8	False	13C4-PFOS	229977.24	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.95	1383349.46	1184.82	8340.2	False	13C2-PFDA	1214355.92	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.27	1351862.43	1277.58	6834.0	False	13C2-PFDA	1214355.92	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.04	1358753.60	1197.02	3891.4	False	13C2-PFDA	1214355.92	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	285191.98	1102.44	7935.2	False	13C4-PFOS	229977.24	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	245383.90	1174.79	16029.3	False	13C4-PFOS	229977.24	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.60	210176.38	1052.97	2356.5	False	13C4-PFOS	229977.24	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	479711.33	1062.73	10372.2	False	13C2-PFOA	846225.52	1250.00		N/A	N/A	✓

Sample Name	LD76 CCV	Injection Vial	51
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:22:06 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	1535816.77	1204.06	6341.1	False	13C2-PFDA	1170728.48	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	186390.99	1229.26	1262.0	False	13C4-PFOS	212833.45	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	198873.57	1374.26	1241.1	False	13C4-PFOS	212833.45	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1411318.23	1460.35	7547.3	False	13C2-PFOA	760997.52	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1348093.93	1414.10	29758.8	False	13C2-PFOA	760997.52	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1635214.81	1320.90	10509.1	False	13C2-PFOA	760997.52	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1541008.53	1285.87	4810390.9	False	13C4-PFOS	212833.45	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1400706.04	1244.39	1394.9	False	13C2-PFDA	1170728.48	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	1334099.65	1307.78	4446.2	False	13C2-PFDA	1170728.48	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1358296.13	1241.21	4833.8	False	13C2-PFDA	1170728.48	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	271775.05	1135.20	11179.1	False	13C4-PFOS	212833.45	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	235772.96	1219.70	9159.7	False	13C4-PFOS	212833.45	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	232419.35	1258.20	1613.9	False	13C4-PFOS	212833.45	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	457577.88	1127.22	82451172.1	False	13C2-PFOA	760997.52	1250.00		N/A	N/A	✓

Sample Name	LD77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:06:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	1476481.73	1136.82	8328.9	False	13C2-PFDA	1192060.91	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	176527.85	1285.01	1244.9	False	13C4-PFOS	192825.85	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	197599.30	1507.14	1503.0	False	13C4-PFOS	192825.85	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1265077.88	1218.01	12047.4	False	13C2-PFOA	817863.74	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1218889.77	1189.67	108598.8	False	13C2-PFOA	817863.74	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1656429.85	1245.00	10341.1	False	13C2-PFOA	817863.74	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1583900.61	1458.80	6566.3	False	13C4-PFOS	192825.85	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1316362.59	1148.53	8343.2	False	13C2-PFDA	1192060.91	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	1221570.59	1176.04	4762.6	False	13C2-PFDA	1192060.91	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1246905.19	1119.03	4181.6	False	13C2-PFDA	1192060.91	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	254898.74	1175.18	4818.0	False	13C4-PFOS	192825.85	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	221739.38	1266.12	45099274.8	False	13C4-PFOS	192825.85	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	215547.98	1287.94	2221.3	False	13C4-PFOS	192825.85	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	450580.12	1032.81	25266.0	False	13C2-PFOA	817863.74	1250.00		N/A	N/A	✓

Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:17:43 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.65	1310415.04	1168.71	6296.1	False	13C2-PFDA	1029120.31	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.17	157734.22	1283.30	976.1	False	13C4-PFOS	172525.93	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.34	177192.41	1510.51	1583.1	False	13C4-PFOS	172525.93	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.59	1137622.12	1294.74	11224.6	False	13C2-PFOA	691881.13	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.92	1091208.79	1258.99	35936.2	False	13C2-PFOA	691881.13	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.29	1373883.92	1220.66	2135.1	False	13C2-PFOA	691881.13	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.66	1214586.43	1250.28	1512.4	False	13C4-PFOS	172525.93	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.02	1228149.57	1241.23	6387.8	False	13C2-PFDA	1029120.31	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.35	1102258.37	1229.19	6496.1	False	13C2-PFDA	1029120.31	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.15	1173559.06	1219.96	3720.3	False	13C2-PFDA	1029120.31	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.33	240616.11	1239.86	10918.6	False	13C4-PFOS	172525.93	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.93	221149.99	1411.34	14638483.6	False	13C4-PFOS	172525.93	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.66	193164.72	1290.00	1062.4	False	13C4-PFOS	172525.93	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.68	474829.16	1286.57	59122.5	False	13C2-PFOA	691881.13	1250.00		N/A	N/A	✓

Sample Name	LD77 CCV	Injection Vial	12
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:02:17 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	1531840.57	1168.44	7984.3	False	13C2-PFDA	1203288.46	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.15	215623.25	1450.21	1400.9	False	13C4-PFOS	208699.82	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	201409.64	1419.35	1034.5	False	13C4-PFOS	208699.82	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1353637.90	1303.45	6482.2	False	13C2-PFOA	817757.70	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1268727.60	1238.48	10582.1	False	13C2-PFOA	817757.70	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1684448.86	1266.22	2458.8	False	13C2-PFOA	817757.70	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1588802.22	1352.01	6349.6	False	13C4-PFOS	208699.82	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1377603.57	1190.75	6090.8	False	13C2-PFDA	1203288.46	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1405423.99	1340.42	6759.8	False	13C2-PFDA	1203288.46	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	1294502.93	1150.90	3830.3	False	13C2-PFDA	1203288.46	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	293773.76	1251.39	79094.9	False	13C4-PFOS	208699.82	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	245548.97	1295.43	30481.1	False	13C4-PFOS	208699.82	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	236099.80	1303.44	1187.9	False	13C4-PFOS	208699.82	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	495526.69	1135.98	9333.1	False	13C2-PFOA	817757.70	1250.00		N/A	N/A	✓

Sample Name	LD76 CCV	Injection Vial	23
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:57:25 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	1589300.94	1161.95	6758.5	False	13C2-PFDA	1255399.34	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	203014.95	1205.77	1473.5	False	13C4-PFOS	236331.66	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	208839.86	1299.64	1323.1	False	13C4-PFOS	236331.66	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1399956.13	1355.64	13621.2	False	13C2-PFOA	813176.84	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1232135.63	1209.53	464121.5	False	13C2-PFOA	813176.84	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1619354.50	1224.15	2000.4	False	13C2-PFOA	813176.84	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1619040.73	1216.66	7171.9	False	13C4-PFOS	236331.66	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1483368.23	1228.95	7606.7	False	13C2-PFDA	1255399.34	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1369536.04	1251.97	5038.4	False	13C2-PFDA	1255399.34	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1405103.72	1197.38	4805.3	False	13C2-PFDA	1255399.34	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	281336.24	1058.29	8844.9	False	13C4-PFOS	236331.66	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	250959.42	1169.17	8808750.2	False	13C4-PFOS	236331.66	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	238900.86	1164.69	2744.3	False	13C4-PFOS	236331.66	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	468492.63	1080.06	10576.7	False	13C2-PFOA	813176.84	1250.00		N/A	N/A	✓

Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 11:10:40 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1527538.44	1098.11	6374.6	False	13C2-PFDA	1276759.54	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	199994.13	1198.45	1024.5	False	13C4-PFOS	234236.90	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	216076.02	1356.70	1240.5	False	13C4-PFOS	234236.90	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1336938.61	1204.62	10143.5	False	13C2-PFOA	873930.00	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1245157.84	1137.35	49871.1	False	13C2-PFOA	873930.00	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1591369.26	1119.36	1919500.1	False	13C2-PFOA	873930.00	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1714407.69	1299.84	25937.7	False	13C4-PFOS	234236.90	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1417133.03	1154.43	1571.2	False	13C2-PFDA	1276759.54	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1396983.55	1255.70	4661.3	False	13C2-PFDA	1276759.54	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1365220.17	1143.93	4935.6	False	13C2-PFDA	1276759.54	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	277915.33	1054.77	6702.0	False	13C4-PFOS	234236.90	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	261618.05	1229.73	3160928.8	False	13C4-PFOS	234236.90	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	251837.29	1238.74	1178.9	False	13C4-PFOS	234236.90	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	495764.07	1063.47	68525.4	False	13C2-PFOA	873930.00	1250.00		N/A	N/A	✓

Raw Analytical Data

Sample Name	LD80 IB	Injection Vial	8
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 4:10:26 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	256509.24	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	256509.24	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1334473.16	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1334473.16	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1269472.74	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1269472.74	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	3094.37	< 0	21.4	True	13C3-PFHxS	228229.45	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.89	943.80	< 0	14.3	False	13C3-PFHxS	228229.45	1182.50	PFHxS	0.305	0.345	✓
PFOA_1	413.0 / 369.0	2.27	11419.92	< 0	47.9	False	13C8-PFOA	1603465.71	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.24	1187.40	21.89	57313.2	False	13C8-PFOA	1603465.71	1222.50	PFOA	0.104	0.096	✓
PFNA_1	463.0 / 419.0	2.59	7225.37	< 0	32.5	False	13C9-PFNA	1567049.56	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.61	1519.05	< 0	89.2	False	13C9-PFNA	1567049.56	1250.00	PFNA	0.210	0.346	✓
PFOS_1	499.0 / 80.0	2.55	5218.20	< 0	14.5	True	13C8-PFOS	229148.45	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.56	900.41	< 0	139.7	False	13C8-PFOS	229148.45	1195.00	PFOS	0.173	0.202	✓
PFDA_1	513.0 / 469.0	2.98	9826.95	< 0	36.2	False	13C6-PFDA	1413621.21	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	645.76	1.85	105.6	True	13C6-PFDA	1413621.21	1250.00	PFDA	0.066	0.055	✓
PFUnA_1	563.0 / 519.0	3.31	12329.34	< 0	65.0	False	13C7-PFUnA	1267458.84	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.34	869.35	15.89	205.7	False	13C7-PFUnA	1267458.84	1250.00	PFUnA	0.071	0.063	✓
PFDoA_1	613.0 / 569.0	3.59	19331.57	< 0	92.0	False	13C2-PFDoA	1450043.21	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	3171.04	< 0	112.7	False	13C2-PFDoA	1450043.21	1250.00	PFDoA	0.164	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.85	16649.23	< 0	177.2	False	13C2-PFTTeDA	1264129.30	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.85	1463.82	< 0	93.9	False	13C2-PFTTeDA	1264129.30	1250.00	PFTTrDA	0.088	0.071	✓
PFTTeDA_1	713.0 / 669.0	4.08	35549.44	< 0	320.4	False	13C2-PFTTeDA	1264129.30	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.09	836.63	< 0	86.5	False	13C2-PFTTeDA	1264129.30	1250.00	PFTTeDA	0.024	0.055	
NMeFOSAA_1	570.0 / 419.0	3.12	7530.93	77.50	997.6	True	d3-MeFOSAA	187627.71	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	8591.80	30.09	904.5	False	d3-MeFOSAA	187627.71	1250.00	NMeFOSAA	1.141	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.30	12040.10	34.74	405.3	True	d5-EtFOSAA	189297.85	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.19	610.44	123.83	4695.5	True	d5-EtFOSAA	189297.85	1250.00	NEtFOSAA	0.051	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.65	4258.40	< 0	66.3	False	13C3-HFPO-DA	522123.47	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	522123.47	1250.00	HFPO-DA	N/A	0.021	
ADONA_1	377.0 / 251.0	1.93	6744.99	< 0	158.8	False	13C8-PFOA	1603465.71	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1603465.71	1222.50	ADONA	N/A	0.015	
9Cl-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1603465.71	1222.50	9Cl-PF3ONS			
9Cl-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1603465.71	1222.50	9Cl-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1603465.71	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1603465.71	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	LD80 IB	Injection Vial	4
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 9:55:12 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	217171.76	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	217171.76	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1030040.27	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1030040.27	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1026353.19	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1026353.19	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	175489.77	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	175489.77	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1268861.05	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1268861.05	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1114952.63	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1114952.63	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.69	6408.19	< 0	21.4	False	13C8-PFOS	168442.90	1195.00	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	168442.90	1195.00	PFOS	N/A	0.202	
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1050453.28	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1050453.28	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1024508.56	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1024508.56	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	3.72	12311.78	< 0	80.9	False	13C2-PFDoA	1162063.64	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.72	1712.23	< 0	90.5	False	13C2-PFDoA	1162063.64	1250.00	PFDoA	0.139	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.98	10705.30	< 0	169.0	False	13C2-PFTTeDA	1054209.78	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.98	590.86	< 0	34.3	False	13C2-PFTTeDA	1054209.78	1250.00	PFTTrDA	0.055	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1054209.78	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1054209.78	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.23	3702.79	51.86	322.8	False	d3-MeFOSAA	143089.55	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.23	5919.23	22.13	211.0	True	d3-MeFOSAA	143089.55	1250.00	NMeFOSAA	1.599	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.40	7025.79	9.05	989.9	True	d5-EtFOSAA	157557.01	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	157557.01	1250.00	NEtFOSAA	N/A	0.052	
HFPO-DA_1	285.0 / 169.0	1.70	3462.39	< 0	64.7	False	13C3-HFPO-DA	453031.24	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	453031.24	1250.00	HFPO-DA	N/A	0.021	
ADONA_1	377.0 / 251.0	1.99	5654.87	< 0	127.2	False	13C8-PFOA	1268861.05	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1268861.05	1222.50	ADONA	N/A	0.015	
9Cl-PF3ONS_1	531.0 / 351.0	2.90	2402.76	43.11	37.8	False	13C8-PFOA	1268861.05	1222.50	9Cl-PF3ONS			
9Cl-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1268861.05	1222.50	9Cl-PF3ONS	N/A	0.011	
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1268861.05	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1268861.05	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	DA891PB-FS(0)	Injection Vial	1
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:38:04 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	262250.94	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	262250.94	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1215489.23	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1215489.23	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1200200.49	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1200200.49	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	228794.24	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	228794.24	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1539700.15	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1539700.15	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1458376.60	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1458376.60	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	207270.93	1195.00	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	207270.93	1195.00	PFOS	N/A	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1261483.88	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1261483.88	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1139596.57	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1139596.57	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1288989.88	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1288989.88	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1147124.08	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1147124.08	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1147124.08	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1147124.08	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	166224.87	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	166224.87	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	179148.85	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	179148.85	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	437503.24	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	437503.24	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1539700.15	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1539700.15	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1539700.15	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1539700.15	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1539700.15	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1539700.15	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	DA892LCS-FS(0)	Injection Vial	2
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:48:33 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	6139785.62	10294.31	21345.3	False	13C3-PFBS	276513.82	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	2050615.56	10184.51	7727.5	False	13C3-PFBS	276513.82	1162.50	PFBS	0.334	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	9503526.69	9974.00	3780.6	False	13C5-PFHxA	1044771.62	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	607548.62	10381.08	3524.1	False	13C5-PFHxA	1044771.62	1250.00	PFHxA	0.064	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	7606675.31	10763.43	2026.6	False	13C4-PFHpA	1081571.78	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	225067.87	9918.09	4140.6	False	13C4-PFHpA	1081571.78	1250.00	PFHpA	0.030	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	5807396.71	10210.46	3154.4	False	13C3-PFHxS	203903.06	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	2169284.49	11044.26	3805.3	False	13C3-PFHxS	203903.06	1182.50	PFHxS	0.374	0.345	✓
PFOA_1	413.0 / 369.0	2.28	9732114.55	10974.38	2012.8	False	13C8-PFOA	1275169.36	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.28	947535.91	10588.14	2817.3	False	13C8-PFOA	1275169.36	1222.50	PFOA	0.097	0.096	✓
PFNA_1	463.0 / 419.0	2.65	8921279.16	10692.76	1871.1	False	13C9-PFNA	1289500.47	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	3152687.68	10653.19	5855.2	False	13C9-PFNA	1289500.47	1250.00	PFNA	0.353	0.346	✓
PFOS_1	499.0 / 80.0	2.64	6050610.92	10023.38	1887.4	False	13C8-PFOS	196499.16	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	1250328.47	10135.36	6437.0	False	13C8-PFOS	196499.16	1195.00	PFOS	0.207	0.202	✓
PFDA_1	513.0 / 469.0	3.00	8654039.09	10624.92	1805.7	False	13C6-PFDA	1162393.46	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	505786.14	10438.93	2912.8	False	13C6-PFDA	1162393.46	1250.00	PFDA	0.058	0.055	✓
PFUnA_1	563.0 / 519.0	3.33	8797148.22	9509.34	2268.4	False	13C7-PFUnA	1039521.40	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.33	579175.94	9598.78	3219.0	False	13C7-PFUnA	1039521.40	1250.00	PFUnA	0.066	0.063	✓
PFDoA_1	613.0 / 569.0	3.62	9095979.69	10279.09	2960.5	False	13C2-PFDoA	1179866.72	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.62	1127220.34	10471.47	3930.0	False	13C2-PFDoA	1179866.72	1250.00	PFDoA	0.124	0.119	✓
PFTeDA_1	663.0 / 619.0	3.88	8034629.15	9599.68	3710.6	False	13C2-PFTeDA	1170644.11	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.88	582029.49	9386.57	3258.7	False	13C2-PFTeDA	1170644.11	1250.00	PFTeDA	0.072	0.071	✓
PFTeDA_1	713.0 / 669.0	4.11	9459396.21	10515.56	5131.6	False	13C2-PFTeDA	1170644.11	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.11	545725.96	10090.28	4466.2	False	13C2-PFTeDA	1170644.11	1250.00	PFTeDA	0.058	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.15	1169414.92	11739.11	1253882.4	False	d3-MeFOSAA	179190.51	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.15	1189171.94	11890.03	28056.6	False	d3-MeFOSAA	179190.51	1250.00	NMeFOSAA	1.017	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.32	1190597.87	10562.66	2915.0	False	d5-EtFOSAA	151606.94	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.32	66382.97	10243.84	1435.7	False	d5-EtFOSAA	151606.94	1250.00	NEtFOSAA	0.056	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.67	8997959.85	10684.94	6522.8	False	13C3-HFPO-DA	483953.08	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	174479.19	9697.67	517060.4	False	13C3-HFPO-DA	483953.08	1250.00	HFPO-DA	0.019	0.021	✓
ADONA_1	377.0 / 251.0	1.95	20230491.58	10623.58	19286.1	False	13C8-PFOA	1275169.36	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.95	312497.32	10784.70	9015.2	False	13C8-PFOA	1275169.36	1222.50	ADONA	0.015	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	11224814.53	10284.59	4714.8	False	13C8-PFOA	1275169.36	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	111065.95	10366.32	1457.6	False	13C8-PFOA	1275169.36	1222.50	9CI-PF3ONS	0.010	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	7396924.64	9476.40	4664.1	False	13C8-PFOA	1275169.36	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	40528.47	9767.95	3802.1	False	13C8-PFOA	1275169.36	1222.50	11Cl-PF3OUdS	0.005	0.006	✓

Sample Name	G1651-FS(0)	Injection Vial	3
Sample ID	CBD-AOA-SW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:59:02 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	118643.57	637.90	209.1	True	13C3-PFBS	73231.56	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	43185.95	718.77	215.1	False	13C3-PFBS	73231.56	1162.50	PFBS	0.364	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	499046.60	2520.79	91.5	False	13C5-PFHxA	213420.29	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	25545.48	2085.24	53.0	False	13C5-PFHxA	213420.29	1250.00	PFHxA	0.051	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	214281.26	1155.11	101.3	False	13C4-PFHpA	265090.83	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.92	8055.33	1461.63	77.5	True	13C4-PFHpA	265090.83	1250.00	PFHpA	0.038	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	2556713.81	15063.90	664.3	False	13C3-PFHxS	60904.40	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	865657.64	14764.92	696.1	False	13C3-PFHxS	60904.40	1182.50	PFHxS	0.339	0.345	✓
PFOA_1	413.0 / 369.0	2.27	744228.35	2664.34	209.9	False	13C8-PFOA	397402.38	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	78974.80	2840.03	321.7	True	13C8-PFOA	397402.38	1222.50	PFOA	0.106	0.096	✓
PFNA_1	463.0 / 419.0	2.64	360634.26	1366.59	276.5	False	13C9-PFNA	388797.44	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	134086.99	1457.55	433.4	False	13C9-PFNA	388797.44	1250.00	PFNA	0.372	0.346	✓
PFOS_1	499.0 / 80.0	2.61	2624676.95	15472.77	677.7	False	13C8-PFOS	55261.03	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	492661.59	14205.24	922.7	False	13C8-PFOS	55261.03	1195.00	PFOS	0.188	0.202	✓
PFDA_1	513.0 / 469.0	3.00	45032.89	97.75	102.8	False	13C6-PFDA	365259.27	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	2578.20	160.36	33.2	False	13C6-PFDA	365259.27	1250.00	PFDA	0.057	0.055	✓
PFUnA_1	563.0 / 519.0	3.32	145206.97	573.73	356.7	False	13C7-PFUnA	274924.51	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	6056.97	383.47	78.6	False	13C7-PFUnA	274924.51	1250.00	PFUnA	0.042	0.063	✓
PFDoA_1	613.0 / 569.0	3.61	10652.33	< 0	71.7	False	13C2-PFDoA	311344.95	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.62	936.08	< 0	41.6	False	13C2-PFDoA	311344.95	1250.00	PFDoA	0.088	0.119	✓
PFTeDA_1	663.0 / 619.0	3.87	17793.64	87.14	182.8	False	13C2-PFTeDA	148531.48	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.87	1640.38	164.75	77.6	False	13C2-PFTeDA	148531.48	1250.00	PFTeDA	0.092	0.071	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	148531.48	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	148531.48	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	40986.47	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	40986.47	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	41776.09	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	41776.09	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	147725.31	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	147725.31	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	397402.38	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	397402.38	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	397402.38	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	397402.38	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	397402.38	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	397402.38	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1652-FS(0)	Injection Vial	4
Sample ID	CBD-AOA-SW02P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:09:30 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	243449.49	881.49	213.8	False	13C3-PFBS	113795.11	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	66094.82	706.44	235.0	False	13C3-PFBS	113795.11	1162.50	PFBS	0.271	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	874062.77	2821.97	101.2	False	13C5-PFHxA	334708.39	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	47465.73	2482.53	73.4	False	13C5-PFHxA	334708.39	1250.00	PFHxA	0.054	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	362780.41	1230.19	119.2	False	13C4-PFHpA	423328.25	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	13077.92	1485.71	92.9	False	13C4-PFHpA	423328.25	1250.00	PFHpA	0.036	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	4951643.83	15041.30	621.6	False	13C3-PFHxS	118131.76	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	1579189.21	13885.03	836.0	False	13C3-PFHxS	118131.76	1182.50	PFHxS	0.319	0.345	✓
PFOA_1	413.0 / 369.0	2.27	1398101.45	2937.67	218.5	False	13C8-PFOA	677976.82	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	131453.60	2771.19	334.8	False	13C8-PFOA	677976.82	1222.50	PFOA	0.094	0.096	✓
PFNA_1	463.0 / 419.0	2.65	665949.20	1246.51	324.6	False	13C9-PFNA	783073.68	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	235207.69	1262.64	488.7	False	13C9-PFNA	783073.68	1250.00	PFNA	0.353	0.346	✓
PFOS_1	499.0 / 80.0	2.60	4395874.29	11244.29	506.1	False	13C8-PFOS	127289.42	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	835723.66	10458.31	843.0	False	13C8-PFOS	127289.42	1195.00	PFOS	0.190	0.202	✓
PFDA_1	513.0 / 469.0	3.00	57050.93	12.75	97.4	False	13C6-PFDA	889064.70	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	3191.39	77.07	77.4	False	13C6-PFDA	889064.70	1250.00	PFDA	0.056	0.055	✓
PFUnA_1	563.0 / 519.0	3.33	151963.70	212.15	251.2	False	13C7-PFUnA	733766.72	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	9438.56	225.59	181.0	False	13C7-PFUnA	733766.72	1250.00	PFUnA	0.062	0.063	✓
PFDoA_1	613.0 / 569.0	3.62	12235.82	< 0	61.8	False	13C2-PFDoA	834802.55	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.63	1111.21	< 0	35.7	False	13C2-PFDoA	834802.55	1250.00	PFDoA	0.091	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.88	14123.00	< 0	184.3	False	13C2-PFTeDA	474805.51	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.87	1397.42	11.08	65.4	False	13C2-PFTeDA	474805.51	1250.00	PFTTrDA	0.099	0.071	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	474805.51	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	474805.51	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	133176.83	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	133176.83	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	132009.28	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	132009.28	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	254948.91	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	254948.91	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	677976.82	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	677976.82	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	677976.82	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	677976.82	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	677976.82	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	677976.82	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1654-FS(0)	Injection Vial	5
Sample ID	CBD-AOA-SW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:19:58 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	138966.26	470.74	111.3	False	13C3-PFBS	109959.14	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.34	35517.26	348.93	140.8	False	13C3-PFBS	109959.14	1162.50	PFBS	0.256	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	241068.39	767.51	46.9	False	13C5-PFHxA	322027.10	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	12392.26	626.36	32.0	False	13C5-PFHxA	322027.10	1250.00	PFHxA	0.051	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	129968.64	389.90	57.2	True	13C4-PFHpA	415770.68	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.92	5140.35	603.94	33.5	True	13C4-PFHpA	415770.68	1250.00	PFHpA	0.040	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	1653267.23	5135.64	432.8	False	13C3-PFHxS	115069.68	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	551006.45	4954.84	461.5	False	13C3-PFHxS	115069.68	1182.50	PFHxS	0.333	0.345	✓
PFOA_1	413.0 / 369.0	2.26	376537.36	792.25	126.4	False	13C8-PFOA	654527.29	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	53946.72	1184.53	141.9	False	13C8-PFOA	654527.29	1222.50	PFOA	0.143	0.096	✓
PFNA_1	463.0 / 419.0	2.63	195992.25	359.27	151.3	False	13C9-PFNA	698736.57	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	70963.34	392.10	218.8	False	13C9-PFNA	698736.57	1250.00	PFNA	0.362	0.346	✓
PFOS_1	499.0 / 80.0	2.62	1036850.32	3469.17	263.7	False	13C8-PFOS	96888.16	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	209833.16	3441.99	621.6	False	13C8-PFOS	96888.16	1195.00	PFOS	0.202	0.202	✓
PFDA_1	513.0 / 469.0	2.98	37056.90	< 0	77.0	False	13C6-PFDA	723440.55	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.96	2316.98	67.78	31.9	False	13C6-PFDA	723440.55	1250.00	PFDA	0.063	0.055	✓
PFUnA_1	563.0 / 519.0	3.29	77494.61	125.33	196.9	False	13C7-PFUnA	596093.98	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.29	7030.85	207.19	67.8	False	13C7-PFUnA	596093.98	1250.00	PFUnA	0.091	0.063	✓
PFDoA_1	613.0 / 569.0	3.58	11177.68	< 0	72.2	False	13C2-PFDoA	639991.07	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.57	1068.12	< 0	34.1	False	13C2-PFDoA	639991.07	1250.00	PFDoA	0.096	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.83	17348.43	< 0	224.1	False	13C2-PFTeDA	446646.87	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.82	1830.77	33.01	56.6	False	13C2-PFTeDA	446646.87	1250.00	PFTTrDA	0.106	0.071	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	446646.87	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	446646.87	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	94323.42	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	94323.42	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	90088.66	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	90088.66	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	240970.68	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	240970.68	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	654527.29	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	654527.29	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	654527.29	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	654527.29	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	654527.29	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	654527.29	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1655-FS(0)	Injection Vial	6
Sample ID	CBD-AOA-FB03-101320	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:30:25 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	301503.09	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	301503.09	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1167761.54	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1167761.54	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1069861.14	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1069861.14	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	217548.25	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	217548.25	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1475264.18	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1475264.18	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1369582.64	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1369582.64	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	186785.19	1195.00	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	186785.19	1195.00	PFOS	N/A	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1293683.97	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1293683.97	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1123372.31	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1123372.31	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1346819.75	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1346819.75	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1349272.91	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1349272.91	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1349272.91	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1349272.91	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	237962.69	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	237962.69	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	192573.22	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	192573.22	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	429989.34	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	429989.34	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1475264.18	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1475264.18	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1475264.18	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1475264.18	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1475264.18	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1475264.18	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1656-FS(0)	Injection Vial	7
Sample ID	CBD-AOA-EB01-101320-SW	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:40:54 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	307437.14	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	307437.14	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1084005.86	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1084005.86	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1113693.44	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1113693.44	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	213807.52	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	213807.52	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1306402.48	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1306402.48	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1388098.22	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1388098.22	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	188014.31	1195.00	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	188014.31	1195.00	PFOS	N/A	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1200454.52	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1200454.52	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1063288.20	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1063288.20	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1368821.26	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1368821.26	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1172209.75	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1172209.75	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1172209.75	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1172209.75	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	185402.31	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	185402.31	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	198697.90	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	198697.90	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	463623.81	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	463623.81	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1306402.48	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1306402.48	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1306402.48	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1306402.48	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1306402.48	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1306402.48	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1657-FS(0)	Injection Vial	8
Sample ID	CBD-AOA-EB01-101320-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:51:22 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	292103.96	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	292103.96	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1080252.90	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1080252.90	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1160299.34	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1160299.34	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	217606.94	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	217606.94	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1361353.87	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1361353.87	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1390418.32	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1390418.32	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	191159.85	1195.00	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	191159.85	1195.00	PFOS	N/A	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1228227.60	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1228227.60	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	970354.89	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	970354.89	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1188174.93	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1188174.93	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	845378.91	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	845378.91	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	845378.91	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	845378.91	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	169627.03	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	169627.03	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	220106.80	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	220106.80	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	486880.08	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	486880.08	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1361353.87	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1361353.87	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1361353.87	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1361353.87	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1361353.87	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1361353.87	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1644-FS(0)	Injection Vial	11
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:22:46 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	1387478.40	6174.86	934.1	False	13C3-PFBS	103365.56	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	457892.35	6043.74	1047.6	False	13C3-PFBS	103365.56	1162.50	PFBS	0.330	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	10040241.06	32858.72	476.3	False	13C5-PFHxA	336399.03	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	546439.70	29114.58	457.2	False	13C5-PFHxA	336399.03	1250.00	PFHxA	0.054	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	4012372.76	15774.82	394.0	False	13C4-PFHpA	390325.21	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	148667.07	18140.45	575.4	False	13C4-PFHpA	390325.21	1250.00	PFHpA	0.037	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	30001145.58	105369.80	1667.3	False	13C3-PFHxS	102347.57	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	10431767.22	106060.90	1962.4	False	13C3-PFHxS	102347.57	1182.50	PFHxS	0.348	0.345	✓
PFOA_1	413.0 / 369.0	2.27	16157430.58	32791.10	588.3	False	13C8-PFOA	710150.28	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	1661703.23	33317.86	1757.8	False	13C8-PFOA	710150.28	1222.50	PFOA	0.103	0.096	✓
PFNA_1	463.0 / 419.0	2.65	19854522.01	59864.16	1119.6	False	13C9-PFNA	515641.21	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	6988250.11	59291.89	1724.9	False	13C9-PFNA	515641.21	1250.00	PFNA	0.352	0.346	✓
PFOS_1	499.0 / 80.0	2.62	104675112.43	376060.02	2433.0	False	13C8-PFOS	90800.79	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	21167003.65	371733.51	3771.1	False	13C8-PFOS	90800.79	1195.00	PFOS	0.202	0.202	✓
PFDA_1	513.0 / 469.0	3.00	772827.98	1153.48	367.6	False	13C6-PFDA	901196.59	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	43399.35	1147.22	413.5	True	13C6-PFDA	901196.59	1250.00	PFDA	0.056	0.055	✓
PFOA_1	563.0 / 519.0	3.32	2650627.09	3636.22	958.5	False	13C7-PFOA	816189.53	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.32	160239.91	3384.99	921.4	False	13C7-PFOA	816189.53	1250.00	PFOA	0.060	0.063	✓
PFOA_3	613.0 / 569.0	3.62	10653.43	< 0	29.6	False	13C2-PFOA	927579.68	1250.00	PFOA			
PFOA_4	613.0 / 319.0	3.62	1237.04	< 0	41.1	False	13C2-PFOA	927579.68	1250.00	PFOA	0.116	0.119	✓
PFTeDA_1	663.0 / 619.0	3.87	12288.39	< 0	143.0	False	13C2-PFTeDA	618791.01	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.87	1277.68	< 0	41.5	True	13C2-PFTeDA	618791.01	1250.00	PFTeDA	0.104	0.071	✓
PFTeDA_3	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	618791.01	1250.00	PFTeDA			
PFTeDA_4	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	618791.01	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	143885.52	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	143885.52	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	128123.86	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	128123.86	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	257083.10	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	257083.10	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	710150.28	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	710150.28	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	710150.28	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	710150.28	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	710150.28	1222.50	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	710150.28	1222.50	11Cl-pf3OUdS	N/A	0.006	✓



Sample Name	G1644-FS-D(3)	Injection Vial	12
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:33:14 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	195828.84	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	195828.84	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	759728.48	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	759728.48	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	860446.45	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	860446.45	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	10163188.56	18698.03	1574.6	False	13C3-PFHxS	195123.06	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	3421978.45	18224.92	1853.7	False	13C3-PFHxS	195123.06	1182.50	PFHxS	0.337	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1311254.62	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1311254.62	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1071545.33	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1071545.33	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.64	34693929.20	62149.35	1991.1	False	13C8-PFOS	182050.48	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	7322454.71	64130.03	3424.6	False	13C8-PFOS	182050.48	1195.00	PFOS	0.211	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1245864.08	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1245864.08	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1069450.40	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1069450.40	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1330768.66	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1330768.66	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1144446.07	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1144446.07	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1144446.07	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1144446.07	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	178040.02	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	178040.02	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	158314.21	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	158314.21	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	372225.51	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	372225.51	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1311254.62	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1311254.62	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1311254.62	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1311254.62	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1311254.62	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1311254.62	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1644-FS-D(5)	Injection Vial	13
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:43:42 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	226682.99	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	226682.99	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1045040.58	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1045040.58	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1123489.20	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1123489.20	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	202155.52	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	202155.52	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389563.87	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389563.87	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1238125.46	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1238125.46	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	14601400.54	24262.13	1898.8	True	13C8-PFOS	196155.47	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	3195050.32	25963.17	3891.7	False	13C8-PFOS	196155.47	1195.00	PFOS	0.219	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1180491.22	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1180491.22	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1107000.26	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1107000.26	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1361980.28	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1361980.28	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1131862.89	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1131862.89	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1131862.89	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1131862.89	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	177241.38	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	177241.38	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	183008.95	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	183008.95	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	386876.10	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	386876.10	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389563.87	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389563.87	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389563.87	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389563.87	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389563.87	1222.50	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389563.87	1222.50	11Cl-pf3OUdS	N/A	0.006	✓



Sample Name	G1645-FS(0)	Injection Vial	14
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:54:10 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	1276387.20	5078.17	818.5	False	13C3-PFBS	115142.84	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	434267.23	5130.92	1019.5	False	13C3-PFBS	115142.84	1162.50	PFBS	0.340	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	10453593.70	33297.26	505.1	False	13C5-PFHxA	345643.55	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	548497.66	28441.10	502.5	False	13C5-PFHxA	345643.55	1250.00	PFHxA	0.052	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	4066224.84	14857.35	291.8	False	13C4-PFHpA	419839.44	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	144338.69	16375.69	642.4	False	13C4-PFHpA	419839.44	1250.00	PFHpA	0.035	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	27999169.05	87763.10	1797.9	False	13C3-PFHxS	114673.70	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	9449405.71	85740.73	2446.5	False	13C3-PFHxS	114673.70	1182.50	PFHxS	0.337	0.345	✓
PFOA_1	413.0 / 369.0	2.26	15825440.81	32973.70	736.1	False	13C8-PFOA	691711.38	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	1624905.21	33448.48	1584.9	False	13C8-PFOA	691711.38	1222.50	PFOA	0.103	0.096	✓
PFNA_1	463.0 / 419.0	2.64	20254085.54	63129.99	1482.2	False	13C9-PFNA	498839.65	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	7367637.86	64620.98	2410.3	False	13C9-PFNA	498839.65	1250.00	PFNA	0.364	0.346	✓
PFOS_1	499.0 / 80.0	2.61	113838141.27	477516.04	2088.8	False	13C8-PFOS	77769.37	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	22592071.12	463246.46	4383.9	False	13C8-PFOS	77769.37	1195.00	PFOS	0.198	0.202	✓
PFDA_1	513.0 / 469.0	2.99	858993.69	1357.19	418.0	False	13C6-PFDA	859649.44	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	46419.95	1287.47	385.2	True	13C6-PFDA	859649.44	1250.00	PFDA	0.054	0.055	✓
PFUnA_1	563.0 / 519.0	3.32	2677611.54	4289.20	1106.9	False	13C7-PFUnA	699593.61	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	148445.70	3658.14	911.1	False	13C7-PFUnA	699593.61	1250.00	PFUnA	0.055	0.063	✓
PFDoA_1	613.0 / 569.0	3.61	9835.57	< 0	32.2	False	13C2-PFDoA	777050.57	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.61	1087.85	< 0	56.6	False	13C2-PFDoA	777050.57	1250.00	PFDoA	0.111	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.87	12676.64	< 0	150.0	False	13C2-PFTeDA	264194.38	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.87	1006.98	27.56	45.5	True	13C2-PFTeDA	264194.38	1250.00	PFTTrDA	0.079	0.071	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	264194.38	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	264194.38	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	124672.22	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	124672.22	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	121659.70	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	121659.70	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	275111.34	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	275111.34	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	691711.38	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	691711.38	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	691711.38	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	691711.38	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	691711.38	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	691711.38	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1645-FS-D(3)	Injection Vial	15
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:04:40 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	229003.70	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	229003.70	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	872539.95	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	872539.95	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	906541.90	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	906541.90	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	8557840.26	14689.19	1620.4	False	13C3-PFHxS	209048.90	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	3022004.64	15017.42	1857.5	False	13C3-PFHxS	209048.90	1182.50	PFHxS	0.353	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1406095.67	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1406095.67	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1173336.90	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1173336.90	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.62	34426801.96	61196.33	2481.9	False	13C8-PFOS	183461.04	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	7267642.06	63160.42	4254.2	False	13C8-PFOS	183461.04	1195.00	PFOS	0.211	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1342720.94	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1342720.94	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1146702.35	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1146702.35	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1336512.39	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1336512.39	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1092945.76	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1092945.76	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1092945.76	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1092945.76	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	172221.87	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	172221.87	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	177037.91	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	177037.91	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	400069.21	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	400069.21	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1406095.67	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1406095.67	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1406095.67	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1406095.67	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1406095.67	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1406095.67	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1646-FS(0)	Injection Vial	17
Sample ID	CBD-AOA-SW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:25:37 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	410536.65	1741.42	417.1	False	13C3-PFBS	103346.24	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	133627.79	1694.00	383.6	False	13C3-PFBS	103346.24	1162.50	PFBS	0.325	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	2634805.14	8578.13	167.1	False	13C5-PFHxA	336474.76	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	132433.03	7005.33	140.8	False	13C5-PFHxA	336474.76	1250.00	PFHxA	0.050	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	1220530.18	4482.55	156.6	False	13C4-PFHpA	411787.80	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	42654.64	4944.83	236.6	False	13C4-PFHpA	411787.80	1250.00	PFHpA	0.035	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	12344763.76	34302.95	1179.2	False	13C3-PFHxS	129284.70	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	4353558.82	35021.03	1482.5	False	13C3-PFHxS	129284.70	1182.50	PFHxS	0.353	0.345	✓
PFOA_1	413.0 / 369.0	2.26	9763808.44	20092.50	494.0	False	13C8-PFOA	699847.19	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	894691.72	18208.20	1077.1	False	13C8-PFOA	699847.19	1222.50	PFOA	0.092	0.096	✓
PFNA_1	463.0 / 419.0	2.63	3164820.35	5795.17	524.9	False	13C9-PFNA	838954.58	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	1087779.30	5624.95	808.8	False	13C9-PFNA	838954.58	1250.00	PFNA	0.344	0.346	✓
PFOS_1	499.0 / 80.0	2.62	15998611.81	36868.11	1135.5	False	13C8-PFOS	141481.89	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	3265183.42	36791.25	1629.9	False	13C8-PFOS	141481.89	1195.00	PFOS	0.204	0.202	✓
PFDA_1	513.0 / 469.0	2.99	93428.93	70.72	136.9	False	13C6-PFDA	894144.81	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	5884.64	148.90	62.2	True	13C6-PFDA	894144.81	1250.00	PFDA	0.063	0.055	✓
PFUnA_1	563.0 / 519.0	3.32	138227.59	174.68	267.7	False	13C7-PFUnA	795181.05	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	8558.25	189.42	123.5	False	13C7-PFUnA	795181.05	1250.00	PFUnA	0.062	0.063	✓
PFDoA_1	613.0 / 569.0	3.62	3771.58	< 0	23.6	False	13C2-PFDoA	904603.83	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.62	495.57	< 0	24.0	False	13C2-PFDoA	904603.83	1250.00	PFDoA	0.131	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.87	9028.46	< 0	128.0	False	13C2-PFTTeDA	499860.94	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.87	542.77	< 0	44.2	True	13C2-PFTTeDA	499860.94	1250.00	PFTTrDA	0.060	0.071	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	499860.94	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	499860.94	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	154895.30	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	154895.30	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	142331.53	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	142331.53	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	234429.74	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	234429.74	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	699847.19	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	699847.19	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	699847.19	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	699847.19	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	699847.19	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	699847.19	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1646-FS-D(3)	Injection Vial	18
Sample ID	CBD-AOA-SW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:36:05 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	204981.38	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	204981.38	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	799015.74	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	799015.74	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	887321.02	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	887321.02	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	184222.72	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	184222.72	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298894.24	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298894.24	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1376350.57	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1376350.57	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.60	4226918.19	6831.70	752.0	False	13C8-PFOS	201199.29	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	817332.15	6466.43	1396.9	False	13C8-PFOS	201199.29	1195.00	PFOS	0.193	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1287993.79	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1287993.79	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1138386.15	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1138386.15	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1331418.75	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1331418.75	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1171951.81	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1171951.81	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1171951.81	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1171951.81	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	188176.22	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	188176.22	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	190176.00	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	190176.00	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	376291.93	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	376291.93	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298894.24	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298894.24	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298894.24	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298894.24	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298894.24	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298894.24	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1647-FS(0)	Injection Vial	21
Sample ID	CBD-AOA-SW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:07:29 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	364120.60	1377.02	320.5	False	13C3-PFBS	113942.15	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	116801.78	1322.50	360.0	False	13C3-PFBS	113942.15	1162.50	PFBS	0.321	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	1974734.33	5927.00	170.6	False	13C5-PFHxA	363886.06	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	93175.66	4534.76	129.6	False	13C5-PFHxA	363886.06	1250.00	PFHxA	0.047	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	806147.53	2505.99	184.0	False	13C4-PFHpA	478855.29	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	30690.08	3065.47	143.9	False	13C4-PFHpA	478855.29	1250.00	PFHpA	0.038	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	8459193.38	22380.97	923.0	False	13C3-PFHxS	135719.02	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	2958467.29	22659.99	978.9	False	13C3-PFHxS	135719.02	1182.50	PFHxS	0.350	0.345	✓
PFOA_1	413.0 / 369.0	2.27	3441685.97	5893.65	308.3	False	13C8-PFOA	837227.52	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	329659.12	5615.99	575.2	True	13C8-PFOA	837227.52	1222.50	PFOA	0.096	0.096	✓
PFNA_1	463.0 / 419.0	2.65	2333681.24	4592.18	557.0	False	13C9-PFNA	778003.05	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	825805.31	4595.28	962.6	False	13C9-PFNA	778003.05	1250.00	PFNA	0.354	0.346	✓
PFOS_1	499.0 / 80.0	2.63	19388093.62	42729.98	1193.1	False	13C8-PFOS	147947.45	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	3934986.52	42402.54	2206.6	False	13C8-PFOS	147947.45	1195.00	PFOS	0.203	0.202	✓
PFDA_1	513.0 / 469.0	3.00	55486.99	9.00	82.4	False	13C6-PFDA	901299.77	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	3511.61	84.43	43.6	True	13C6-PFDA	901299.77	1250.00	PFDA	0.063	0.055	✓
PFUnA_1	563.0 / 519.0	3.32	121211.35	178.56	231.9	False	13C7-PFUnA	683755.98	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	7869.60	202.28	173.8	False	13C7-PFUnA	683755.98	1250.00	PFUnA	0.065	0.063	✓
PFDoA_1	613.0 / 569.0	3.62	5053.39	< 0	32.0	False	13C2-PFDoA	657219.87	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.62	468.30	< 0	16.3	False	13C2-PFDoA	657219.87	1250.00	PFDoA	0.093	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.88	8289.73	< 0	133.8	False	13C2-PFTTeDA	215226.03	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.90	351.69	< 0	20.8	False	13C2-PFTTeDA	215226.03	1250.00	PFTTrDA	0.042	0.071	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	215226.03	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	215226.03	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	133546.94	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	133546.94	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	103179.80	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	103179.80	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	247053.41	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	247053.41	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	837227.52	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	837227.52	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	837227.52	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	837227.52	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	837227.52	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	837227.52	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1647-FS-D(3)	Injection Vial	22
Sample ID	CBD-AOA-SW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:17:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	204043.51	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	204043.51	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	812466.25	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	812466.25	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	972240.53	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	972240.53	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	189480.18	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	189480.18	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389689.70	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389689.70	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1381463.77	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1381463.77	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	5084000.62	8171.46	1089.9	False	13C8-PFOS	202425.84	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	991883.56	7802.28	1696.5	False	13C8-PFOS	202425.84	1195.00	PFOS	0.195	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1289122.04	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1289122.04	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1150803.96	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1150803.96	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1304020.01	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1304020.01	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1114038.47	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1114038.47	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1114038.47	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1114038.47	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	175623.90	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	175623.90	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	187418.61	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	187418.61	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	383479.79	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	383479.79	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389689.70	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389689.70	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389689.70	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389689.70	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389689.70	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1389689.70	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1658-FS(0)	Injection Vial	23
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:28:28 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	3416928.66	13547.61	1363.0	False	13C3-PFBS	117262.34	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	1128618.15	13247.34	1642.2	False	13C3-PFBS	117262.34	1162.50	PFBS	0.330	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	40470314.95	131278.83	816.2	False	13C5-PFHxA	339842.99	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	2215785.61	117057.40	918.4	False	13C5-PFHxA	339842.99	1250.00	PFHxA	0.055	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	14185128.13	82212.55	457.1	False	13C4-PFHpA	266034.82	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	535886.52	95871.86	1079.1	False	13C4-PFHpA	266034.82	1250.00	PFHpA	0.038	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	88831066.88	464350.91	3035.9	False	13C3-PFHxS	68781.47	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	28562827.43	432210.41	3300.3	False	13C3-PFHxS	68781.47	1182.50	PFHxS	0.322	0.345	✓
PFOA_1	413.0 / 369.0	2.27	57686219.72	157039.60	960.1	False	13C8-PFOA	529898.80	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	5756347.14	154636.41	2551.4	False	13C8-PFOA	529898.80	1222.50	PFOA	0.100	0.096	✓
PFNA_1	463.0 / 419.0	2.64	25428375.35	129018.35	1154.0	False	13C9-PFNA	306635.75	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	8493229.23	121233.12	1692.2	False	13C9-PFNA	306635.75	1250.00	PFNA	0.334	0.346	✓
PFOS_1	499.0 / 80.0	2.60	249744485.12	1566787.91	2888.7	False	13C8-PFOS	52000.60	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	47050632.24	1442876.52	4516.9	False	13C8-PFOS	52000.60	1195.00	PFOS	0.188	0.202	✓
PFDA_1	513.0 / 469.0	2.99	5745501.46	9972.53	904.2	False	13C6-PFDA	821809.99	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	333737.40	9742.01	1304.9	True	13C6-PFDA	821809.99	1250.00	PFDA	0.058	0.055	✓
PFUnA_1	563.0 / 519.0	3.32	26520513.31	35912.53	2513.8	False	13C7-PFUnA	831159.78	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	1461840.24	30292.02	2848.2	False	13C7-PFUnA	831159.78	1250.00	PFUnA	0.055	0.063	✓
PFDaA_1	613.0 / 569.0	3.61	306068.19	377.72	457.1	False	13C2-PFDaA	897726.62	1250.00	PFDaA			
PFDaA_2	613.0 / 319.0	3.62	27649.73	283.84	450.1	False	13C2-PFDaA	897726.62	1250.00	PFDaA	0.090	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.87	1407546.06	3201.62	1872.4	False	13C2-PFTeDA	604691.17	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.86	98996.53	3060.80	1216.4	True	13C2-PFTeDA	604691.17	1250.00	PFTTrDA	0.070	0.071	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	604691.17	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	604691.17	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	152270.57	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	152270.57	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	126687.63	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	126687.63	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	297299.35	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	297299.35	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	529898.80	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	529898.80	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	529898.80	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	529898.80	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	529898.80	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	529898.80	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1658-FS-D(3)	Injection Vial	24
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:38:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	246923.29	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	246923.29	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	17038553.97	20337.98	714.9	False	13C5-PFHxA	921328.36	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	943101.75	18323.08	646.2	False	13C5-PFHxA	921328.36	1250.00	PFHxA	0.055	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	818504.34	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	818504.34	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	37069088.10	71425.89	2897.4	False	13C3-PFHxS	186531.60	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	12036721.58	67136.89	3469.4	False	13C3-PFHxS	186531.60	1182.50	PFHxS	0.325	0.345	✓
PFOA_1	413.0 / 369.0	2.26	21904684.57	24016.07	919.2	False	13C8-PFOA	1313972.56	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	2133987.07	23128.35	2342.5	False	13C8-PFOA	1313972.56	1222.50	PFOA	0.097	0.096	✓
PFNA_1	463.0 / 419.0	2.63	12538166.06	21548.82	1274.6	False	13C9-PFNA	902546.81	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	4223267.42	20437.23	2551.5	False	13C9-PFNA	902546.81	1250.00	PFNA	0.337	0.346	✓
PFOS_1	499.0 / 80.0	2.63	93909115.31	205271.39	2847.1	False	13C8-PFOS	149231.85	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	19629859.41	209752.48	4615.9	False	13C8-PFOS	149231.85	1195.00	PFOS	0.209	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1286328.33	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1286328.33	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	3.31	6358700.95	6134.99	1604.3	False	13C7-PFUnA	1163236.64	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	309327.01	4583.43	2302.0	False	13C7-PFUnA	1163236.64	1250.00	PFUnA	0.049	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1374521.07	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1374521.07	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1283625.01	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1283625.01	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1283625.01	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1283625.01	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	187778.68	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	187778.68	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	176376.77	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	176376.77	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	425256.72	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	425256.72	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1313972.56	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1313972.56	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1313972.56	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1313972.56	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1313972.56	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1313972.56	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1658-FS-D(7)	Injection Vial	26
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:59:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	270311.53	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	270311.53	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1312244.24	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1312244.24	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1292925.08	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1292925.08	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	5018370.59	7226.43	2435.8	False	13C3-PFHxS	248652.87	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	1762144.40	7347.07	2618.6	False	13C3-PFHxS	248652.87	1182.50	PFHxS	0.351	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1602216.27	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1602216.27	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1561223.81	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1561223.81	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	14647959.00	21033.10	2395.1	False	13C8-PFOS	226959.42	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	3197978.50	22458.32	4927.5	False	13C8-PFOS	226959.42	1195.00	PFOS	0.218	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1363379.58	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1363379.58	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1316611.19	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1316611.19	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1496738.48	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1496738.48	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1285889.11	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1285889.11	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1285889.11	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1285889.11	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	191164.02	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	191164.02	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	184336.87	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	184336.87	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	459774.78	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	459774.78	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1602216.27	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1602216.27	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1602216.27	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1602216.27	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1602216.27	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1602216.27	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1668-FS(0)	Injection Vial	27
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:10:24 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	1018266.49	4591.17	497.2	False	13C3-PFBS	101348.89	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	259762.40	3455.13	775.2	False	13C3-PFBS	101348.89	1162.50	PFBS	0.255	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	13997357.02	47502.35	493.3	False	13C5-PFHxA	324585.11	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	797551.98	44073.90	561.8	False	13C5-PFHxA	324585.11	1250.00	PFHxA	0.057	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	12859805.70	55873.33	407.6	False	13C4-PFHpA	354685.03	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	491261.51	65926.32	1059.6	False	13C4-PFHpA	354685.03	1250.00	PFHpA	0.038	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	30039200.42	98902.55	1225.3	False	13C3-PFHxS	109176.33	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	10022980.77	95527.87	2119.4	False	13C3-PFHxS	109176.33	1182.50	PFHxS	0.334	0.345	✓
PFOA_1	413.0 / 369.0	2.26	23506991.96	51610.76	572.7	False	13C8-PFOA	656709.53	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	2428593.71	52650.32	1449.5	True	13C8-PFOA	656709.53	1222.50	PFOA	0.103	0.096	✓
PFNA_1	463.0 / 419.0	2.63	7313537.39	29932.43	629.3	False	13C9-PFNA	379385.11	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	2383909.30	27462.36	1049.1	False	13C9-PFNA	379385.11	1250.00	PFNA	0.326	0.346	✓
PFOS_1	499.0 / 80.0	2.62	134446409.43	573505.14	2243.8	False	13C8-PFOS	76475.79	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	28714352.21	598745.34	4268.1	False	13C8-PFOS	76475.79	1195.00	PFOS	0.214	0.202	✓
PFDA_1	513.0 / 469.0	2.98	2457044.77	5005.26	513.2	False	13C6-PFDA	694767.17	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	160421.09	5535.14	790.5	False	13C6-PFDA	694767.17	1250.00	PFDA	0.065	0.055	✓
PFUnA_1	563.0 / 519.0	3.30	41645433.71	89357.61	2915.1	False	13C7-PFUnA	524731.17	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	2742763.45	90017.22	2713.4	False	13C7-PFUnA	524731.17	1250.00	PFUnA	0.066	0.063	✓
PFDoA_1	613.0 / 569.0	3.59	321010.96	784.49	417.7	False	13C2-PFDoA	498740.23	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	28939.07	583.82	399.9	False	13C2-PFDoA	498740.23	1250.00	PFDoA	0.090	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.85	595168.54	3472.89	1106.5	False	13C2-PFTTeDA	236175.93	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.84	39993.69	3167.49	878.8	True	13C2-PFTTeDA	236175.93	1250.00	PFTTrDA	0.067	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	236175.93	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	236175.93	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	100599.94	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	100599.94	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	73954.41	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	73954.41	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	231591.51	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	231591.51	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	656709.53	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	656709.53	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	656709.53	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	656709.53	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	656709.53	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	656709.53	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1668-FS-D(3)	Injection Vial	28
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:20:52 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	220717.30	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	220717.30	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	862972.25	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	862972.25	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	967505.90	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	967505.90	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	8528061.69	15059.25	1231.9	False	13C3-PFHxS	203212.63	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	2901662.49	14833.17	1463.5	False	13C3-PFHxS	203212.63	1182.50	PFHxS	0.340	0.345	✓
PFOA_1	413.0 / 369.0	2.27	6734797.65	7000.90	533.7	False	13C8-PFOA	1380591.49	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	586791.19	6061.20	1135.1	True	13C8-PFOA	1380591.49	1222.50	PFOA	0.087	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1200905.47	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1200905.47	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	38818107.62	71491.87	2489.5	False	13C8-PFOS	177081.32	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	8711868.99	78442.17	3521.2	False	13C8-PFOS	177081.32	1195.00	PFOS	0.224	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1309035.69	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1309035.69	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	3.32	9523894.04	9251.40	2373.8	False	13C7-PFUnA	1156703.68	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	549405.96	8183.55	2968.6	False	13C7-PFUnA	1156703.68	1250.00	PFUnA	0.058	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1317620.72	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1317620.72	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1188067.73	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1188067.73	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1188067.73	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1188067.73	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	195080.97	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	195080.97	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	185205.63	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	185205.63	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	377053.04	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	377053.04	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1380591.49	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1380591.49	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1380591.49	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1380591.49	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1380591.49	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1380591.49	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1661-FS(0)	Injection Vial	32
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:02:44 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	3389713.20	13311.70	1321.8	False	13C3-PFBS	118371.15	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	1139846.90	13253.86	1511.3	False	13C3-PFBS	118371.15	1162.50	PFBS	0.336	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	41247127.97	130929.54	817.5	False	13C5-PFHxA	347289.76	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	2255420.49	116596.11	920.3	False	13C5-PFHxA	347289.76	1250.00	PFHxA	0.055	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	13234600.46	79253.16	451.9	False	13C4-PFHpA	257465.70	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	514960.97	95194.59	805.6	False	13C4-PFHpA	257465.70	1250.00	PFHpA	0.039	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	83500640.49	443018.99	3269.7	False	13C3-PFHxS	67767.11	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	28710464.70	440947.94	3083.6	False	13C3-PFHxS	67767.11	1182.50	PFHxS	0.344	0.345	✓
PFOA_1	413.0 / 369.0	2.27	55944131.74	145237.55	1048.5	False	13C8-PFOA	555644.71	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	5771373.47	147856.76	2480.8	False	13C8-PFOA	555644.71	1222.50	PFOA	0.103	0.096	✓
PFNA_1	463.0 / 419.0	2.64	24586012.92	146792.86	1201.0	False	13C9-PFNA	260597.56	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	8513606.00	143002.33	1902.7	False	13C9-PFNA	260597.56	1250.00	PFNA	0.346	0.346	✓
PFOS_1	499.0 / 80.0	2.60	245455319.75	1719337.32	3078.6	False	13C8-PFOS	46573.04	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	47144270.93	1614235.13	4615.7	False	13C8-PFOS	46573.04	1195.00	PFOS	0.192	0.202	✓
PFDA_1	513.0 / 469.0	2.99	5068137.99	10444.20	665.0	False	13C6-PFDA	692432.34	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	283119.08	9808.66	852.1	True	13C6-PFDA	692432.34	1250.00	PFDA	0.056	0.055	✓
PFUnA_1	563.0 / 519.0	3.31	22220566.23	41761.97	2058.4	False	13C7-PFUnA	598905.78	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	1181947.35	33989.61	1829.1	False	13C7-PFUnA	598905.78	1250.00	PFUnA	0.053	0.063	✓
PFDoA_1	613.0 / 569.0	3.61	171046.79	393.06	281.4	False	13C2-PFDoA	485445.84	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.61	16196.82	312.10	405.9	False	13C2-PFDoA	485445.84	1250.00	PFDoA	0.095	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.86	336577.35	8010.03	1181.4	False	13C2-PFTTeDA	58673.02	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.86	20638.41	6627.77	649.9	True	13C2-PFTTeDA	58673.02	1250.00	PFTTrDA	0.061	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	58673.02	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	58673.02	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	112039.98	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	112039.98	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	87738.73	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	87738.73	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	307866.10	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	307866.10	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	555644.71	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	555644.71	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	555644.71	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	555644.71	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	555644.71	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	555644.71	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1661-FS-D(3)	Injection Vial	33
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:13:11 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	234345.17	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	234345.17	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	17002669.69	20404.40	817.6	False	13C5-PFHxA	916403.85	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	1027108.90	20068.61	883.8	False	13C5-PFHxA	916403.85	1250.00	PFHxA	0.060	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	792557.66	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	792557.66	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	37149236.56	71264.41	2791.2	False	13C3-PFHxS	187358.31	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	12289617.37	68245.47	3145.4	False	13C3-PFHxS	187358.31	1182.50	PFHxS	0.331	0.345	✓
PFOA_1	413.0 / 369.0	2.27	23009179.48	25003.08	1024.6	False	13C8-PFOA	1325824.05	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	2146484.10	23055.87	1562.1	True	13C8-PFOA	1325824.05	1222.50	PFOA	0.093	0.096	✓
PFNA_1	463.0 / 419.0	2.64	12106236.00	21631.60	1312.5	False	13C9-PFNA	868131.83	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	4389604.88	22088.50	2144.4	False	13C9-PFNA	868131.83	1250.00	PFNA	0.363	0.346	✓
PFOS_1	499.0 / 80.0	2.63	97334177.98	205071.70	2672.0	False	13C8-PFOS	154825.25	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	20094576.32	206960.84	4401.8	False	13C8-PFOS	154825.25	1195.00	PFOS	0.206	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1304004.53	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1304004.53	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	3.31	5823043.14	5824.77	1610.5	False	13C7-PFUnA	1121775.10	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	299529.70	4602.28	2036.4	False	13C7-PFUnA	1121775.10	1250.00	PFUnA	0.051	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1283917.45	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1283917.45	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1125423.73	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1125423.73	1250.00	PFTTrDA	N/A	0.071	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1125423.73	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1125423.73	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	187646.45	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	187646.45	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	169693.21	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	169693.21	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	438268.09	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	438268.09	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325824.05	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325824.05	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325824.05	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325824.05	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325824.05	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325824.05	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1661-FS-D(5)	Injection Vial	34
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:23:40 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	294548.12	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	294548.12	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1330365.04	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1330365.04	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1317605.02	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1317605.02	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	10417960.79	15837.21	2783.5	False	13C3-PFHxS	236075.48	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	3627942.81	15966.44	3518.5	False	13C3-PFHxS	236075.48	1182.50	PFHxS	0.348	0.345	✓
PFOA_1	413.0 / 369.0	2.27	6011684.23	5415.04	926.1	False	13C8-PFOA	1590767.12	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	555135.78	4978.63	1551.2	True	13C8-PFOA	1590767.12	1222.50	PFOA	0.092	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1414621.61	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1414621.61	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	29114687.73	41810.95	2207.6	False	13C8-PFOS	227050.38	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	5983338.58	42012.29	6056.9	False	13C8-PFOS	227050.38	1195.00	PFOS	0.206	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1439850.50	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1439850.50	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1318297.50	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1318297.50	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1515673.78	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1515673.78	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1305150.43	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1305150.43	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1305150.43	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1305150.43	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	204470.07	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	204470.07	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	204531.74	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	204531.74	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	457423.64	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	457423.64	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1590767.12	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1590767.12	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1590767.12	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1590767.12	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1590767.12	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1590767.12	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1661-FS-D(7)	Injection Vial	35
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:34:08 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	288208.63	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	288208.63	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1399021.19	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1399021.19	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1315811.75	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1315811.75	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	263126.98	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	263126.98	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1853049.50	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1853049.50	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1549489.46	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1549489.46	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	12560368.10	17226.32	2425.0	False	13C8-PFOS	237565.78	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	2775292.08	18617.80	5729.0	False	13C8-PFOS	237565.78	1195.00	PFOS	0.221	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1337379.00	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1337379.00	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1359654.60	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1359654.60	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1551263.12	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1551263.12	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1356774.97	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1356774.97	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1356774.97	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1356774.97	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	208523.97	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	208523.97	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	208786.77	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	208786.77	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	467628.92	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	467628.92	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1853049.50	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1853049.50	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1853049.50	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1853049.50	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1853049.50	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1853049.50	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1663-FS(0)	Injection Vial	36
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:44:38 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	3337146.21	11927.62	1223.5	False	13C3-PFBS	129921.21	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	1107952.02	11726.37	1545.8	False	13C3-PFBS	129921.21	1162.50	PFBS	0.332	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	48950397.30	149945.45	793.6	False	13C5-PFHxA	359901.18	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	2734943.56	136442.22	909.0	False	13C5-PFHxA	359901.18	1250.00	PFHxA	0.056	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	20369124.81	124933.11	548.4	False	13C4-PFHpA	251481.08	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	799308.41	151265.54	1231.0	False	13C4-PFHpA	251481.08	1250.00	PFHpA	0.039	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	105906031.00	571372.93	3429.1	False	13C3-PFHxS	66643.72	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	33821413.99	528206.01	3280.5	False	13C3-PFHxS	66643.72	1182.50	PFHxS	0.319	0.345	✓
PFOA_1	413.0 / 369.0	2.27	72397202.11	177063.36	1226.3	False	13C8-PFOA	589841.00	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	7793660.64	188086.92	2489.4	True	13C8-PFOA	589841.00	1222.50	PFOA	0.108	0.096	✓
PFNA_1	463.0 / 419.0	2.64	22560207.63	118146.84	1204.5	False	13C9-PFNA	297065.82	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	7861680.54	115831.09	1912.5	False	13C9-PFNA	297065.82	1250.00	PFNA	0.348	0.346	✓
PFOS_1	499.0 / 80.0	2.60	239673222.80	1286379.97	3235.3	False	13C8-PFOS	60781.53	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	45703776.44	1199090.20	5367.0	False	13C8-PFOS	60781.53	1195.00	PFOS	0.191	0.202	✓
PFDA_1	513.0 / 469.0	2.99	4801839.77	8510.66	945.6	False	13C6-PFDA	803717.71	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	288564.23	8611.93	1248.8	True	13C6-PFDA	803717.71	1250.00	PFDA	0.060	0.055	✓
PFUnA_1	563.0 / 519.0	3.31	14535520.62	21582.04	1922.6	False	13C7-PFUnA	757735.42	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	785094.53	17846.70	1949.2	False	13C7-PFUnA	757735.42	1250.00	PFUnA	0.054	0.063	✓
PFDaA_1	613.0 / 569.0	3.61	298382.64	463.85	474.8	False	13C2-PFDaA	736690.68	1250.00	PFDaA			
PFDaA_2	613.0 / 319.0	3.61	32006.46	423.19	801.1	False	13C2-PFDaA	736690.68	1250.00	PFDaA	0.107	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.86	1649960.97	6190.47	2147.2	False	13C2-PFTeDA	371064.02	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.85	114621.08	5814.85	2023.6	True	13C2-PFTeDA	371064.02	1250.00	PFTTrDA	0.069	0.071	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	371064.02	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	371064.02	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	130605.25	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	130605.25	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	116820.14	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	116820.14	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	295699.15	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	295699.15	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	589841.00	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	589841.00	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	589841.00	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	589841.00	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	589841.00	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	589841.00	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1663-FS-D(3)	Injection Vial	37
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:55:08 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	230197.84	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	230197.84	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	19804402.29	23954.03	856.7	False	13C5-PFHxA	909619.06	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	1162292.92	22888.45	1093.0	False	13C5-PFHxA	909619.06	1250.00	PFHxA	0.059	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	10140822.72	19332.64	678.1	False	13C4-PFHpA	805821.15	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	333924.05	19735.07	1371.9	False	13C4-PFHpA	805821.15	1250.00	PFHpA	0.033	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	42225150.29	92251.79	3281.8	False	13C3-PFHxS	164525.94	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	14814373.29	93693.19	3416.7	False	13C3-PFHxS	164525.94	1182.50	PFHxS	0.351	0.345	✓
PFOA_1	413.0 / 369.0	2.27	27165152.13	31409.13	1309.7	False	13C8-PFOA	1246431.02	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	2728350.60	31168.51	1853.5	True	13C8-PFOA	1246431.02	1222.50	PFOA	0.100	0.096	✓
PFNA_1	463.0 / 419.0	2.63	10713026.24	18764.78	1444.4	False	13C9-PFNA	885110.21	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	3538338.92	17452.37	2389.9	False	13C9-PFNA	885110.21	1250.00	PFNA	0.330	0.346	✓
PFOS_1	499.0 / 80.0	2.63	87763779.90	206788.87	2673.7	False	13C8-PFOS	138442.90	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	18681890.61	215180.13	4626.0	False	13C8-PFOS	138442.90	1195.00	PFOS	0.213	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1233932.20	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1233932.20	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1157999.05	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1157999.05	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1335566.58	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1335566.58	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1160880.42	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1160880.42	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1160880.42	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1160880.42	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	175879.01	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	175879.01	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	168262.28	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	168262.28	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	394096.61	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	394096.61	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1246431.02	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1246431.02	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1246431.02	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1246431.02	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1246431.02	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1246431.02	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1663-FS-D(5)	Injection Vial	38
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:05:38 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	289744.54	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	289744.54	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1227053.00	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1227053.00	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1187209.19	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1187209.19	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	21311222.98	35639.66	2694.1	False	13C3-PFHxS	214825.15	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	7377074.44	35713.94	3106.7	False	13C3-PFHxS	214825.15	1182.50	PFHxS	0.346	0.345	✓
PFOA_1	413.0 / 369.0	2.27	12437551.08	11668.56	1097.3	False	13C8-PFOA	1533016.52	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	1205299.44	11202.48	1943.8	True	13C8-PFOA	1533016.52	1222.50	PFOA	0.097	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1249975.70	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1249975.70	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	44500432.96	78732.32	2965.3	False	13C8-PFOS	184339.54	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	9575748.73	82826.37	6413.9	False	13C8-PFOS	184339.54	1195.00	PFOS	0.215	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1395748.97	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1395748.97	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1315665.18	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1315665.18	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1449088.87	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1449088.87	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1283476.18	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1283476.18	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1283476.18	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1283476.18	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	194076.78	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	194076.78	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	206063.53	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	206063.53	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	452802.86	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	452802.86	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1533016.52	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1533016.52	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1533016.52	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1533016.52	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1533016.52	1222.50	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1533016.52	1222.50	11Cl-pf3OUdS	N/A	0.006	✓



Sample Name	G1663-FS-D(7)	Injection Vial	39
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:16:05 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	282214.87	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	282214.87	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1370618.46	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1370618.46	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1277750.77	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1277750.77	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	10088175.77	14922.32	2889.4	False	13C3-PFHxS	242589.55	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	3439839.09	14729.83	3313.5	False	13C3-PFHxS	242589.55	1182.50	PFHxS	0.341	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1644848.58	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1644848.58	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1456182.93	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1456182.93	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	21467843.11	32084.28	2652.3	False	13C8-PFOS	218135.77	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	4597748.95	33600.30	4627.0	False	13C8-PFOS	218135.77	1195.00	PFOS	0.214	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1414240.66	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1414240.66	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1303246.16	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1303246.16	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1440629.59	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1440629.59	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1350346.05	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1350346.05	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1350346.05	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1350346.05	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	195336.89	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	195336.89	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	214159.56	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	214159.56	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	448677.94	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	448677.94	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1644848.58	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1644848.58	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1644848.58	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1644848.58	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1644848.58	1222.50	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1644848.58	1222.50	11Cl-pf3OUdS	N/A	0.006	✓

Sample Name	G1664-FS(0)	Injection Vial	42
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:47:28 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	3701931.16	13810.90	1184.0	False	13C3-PFBS	124642.36	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	1215264.76	13421.07	1539.1	False	13C3-PFBS	124642.36	1162.50	PFBS	0.328	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	47861568.28	148823.87	591.9	True	13C5-PFHxA	354546.67	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	2661386.18	134776.94	934.3	False	13C5-PFHxA	354546.67	1250.00	PFHxA	0.056	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	18868610.93	112507.82	529.7	False	13C4-PFHpA	258661.74	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	721812.45	132809.55	1197.1	False	13C4-PFHpA	258661.74	1250.00	PFHpA	0.038	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	108767563.43	623400.12	3459.2	False	13C3-PFHxS	62732.51	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	34310278.84	569251.45	3395.6	False	13C3-PFHxS	62732.51	1182.50	PFHxS	0.315	0.345	✓
PFOA_1	413.0 / 369.0	2.27	72347246.43	207457.30	1333.4	False	13C8-PFOA	503093.54	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	7371239.93	208564.93	2395.9	True	13C8-PFOA	503093.54	1222.50	PFOA	0.102	0.096	✓
PFNA_1	463.0 / 419.0	2.64	25333408.55	151852.60	1347.7	False	13C9-PFNA	259577.00	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	8607390.09	145146.82	1775.1	False	13C9-PFNA	259577.00	1250.00	PFNA	0.340	0.346	✓
PFOS_1	499.0 / 80.0	2.59	261643269.62	1887293.16	3059.7	False	13C8-PFOS	45226.60	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	50733138.21	1788836.16	5153.6	False	13C8-PFOS	45226.60	1195.00	PFOS	0.194	0.202	✓
PFDA_1	513.0 / 469.0	2.99	5848497.03	10431.05	794.3	False	13C6-PFDA	800047.96	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	347887.90	10431.94	1302.9	True	13C6-PFDA	800047.96	1250.00	PFDA	0.059	0.055	✓
PFUnA_1	563.0 / 519.0	3.31	20997413.92	30815.94	2108.8	False	13C7-PFUnA	766826.06	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	1138941.10	25581.62	1966.4	False	13C7-PFUnA	766826.06	1250.00	PFUnA	0.054	0.063	✓
PFDaA_1	613.0 / 569.0	3.61	304130.19	456.11	475.0	False	13C2-PFDaA	761714.40	1250.00	PFDaA			
PFDaA_2	613.0 / 319.0	3.61	38444.53	500.59	721.9	False	13C2-PFDaA	761714.40	1250.00	PFDaA	0.126	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.86	1371930.13	7133.02	1945.7	False	13C2-PFTeDA	268229.29	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.85	92644.10	6507.10	1347.9	True	13C2-PFTeDA	268229.29	1250.00	PFTTrDA	0.068	0.071	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	268229.29	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	268229.29	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	135203.02	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	135203.02	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	106174.70	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	106174.70	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	304560.43	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	304560.43	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	503093.54	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	503093.54	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	503093.54	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	503093.54	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	503093.54	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	503093.54	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1664-FS-D(3)	Injection Vial	43
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:57:57 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	231306.48	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	231306.48	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	20567844.95	26695.72	888.0	False	13C5-PFHxA	847874.25	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	1207818.43	25524.51	830.2	False	13C5-PFHxA	847874.25	1250.00	PFHxA	0.059	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	9551746.51	19426.28	839.1	False	13C4-PFHpA	755369.89	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	333306.16	21013.21	1427.3	False	13C4-PFHpA	755369.89	1250.00	PFHpA	0.035	0.029	✓
PFHxS_1	399.0 / 80.0	1.90	43497197.40	92077.34	2801.8	False	13C3-PFHxS	169803.34	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	14570433.56	89285.03	3710.9	False	13C3-PFHxS	169803.34	1182.50	PFHxS	0.335	0.345	✓
PFOA_1	413.0 / 369.0	2.25	27844863.81	29666.22	1218.6	False	13C8-PFOA	1352584.05	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	2814589.86	29630.78	2268.2	True	13C8-PFOA	1352584.05	1222.50	PFOA	0.101	0.096	✓
PFNA_1	463.0 / 419.0	2.61	12207093.58	23928.77	1375.2	False	13C9-PFNA	791600.02	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.61	4561752.68	25181.36	2469.2	False	13C9-PFNA	791600.02	1250.00	PFNA	0.374	0.346	✓
PFOS_1	499.0 / 80.0	2.61	102767297.01	258041.37	2722.0	False	13C8-PFOS	129914.40	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	20594462.44	252783.48	5393.3	False	13C8-PFOS	129914.40	1195.00	PFOS	0.200	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1243057.81	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1243057.81	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1125524.30	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1125524.30	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1337703.78	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1337703.78	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1157654.07	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1157654.07	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1157654.07	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1157654.07	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	159127.84	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	159127.84	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	170162.51	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	170162.51	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	392168.69	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	392168.69	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1352584.05	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1352584.05	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1352584.05	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1352584.05	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1352584.05	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1352584.05	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1664-FS-D(5)	Injection Vial	44
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:08:26 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	265785.36	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	265785.36	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1207778.30	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1207778.30	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1031296.54	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1031296.54	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	20981194.19	35061.97	2760.6	False	13C3-PFHxS	214980.03	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	7627785.79	36902.05	3828.6	False	13C3-PFHxS	214980.03	1182.50	PFHxS	0.364	0.345	✓
PFOA_1	413.0 / 369.0	2.27	13242109.89	12491.95	999.0	False	13C8-PFOA	1524926.31	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	1278495.63	11945.08	1666.3	True	13C8-PFOA	1524926.31	1222.50	PFOA	0.097	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1160373.54	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1160373.54	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	49823708.25	96559.33	3094.9	False	13C8-PFOS	168295.13	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	10633334.59	100744.93	5121.1	False	13C8-PFOS	168295.13	1195.00	PFOS	0.213	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1321606.61	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1321606.61	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1242803.39	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1242803.39	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1424989.36	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1424989.36	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1252295.11	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1252295.11	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1252295.11	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1252295.11	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	186547.77	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	186547.77	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	189048.19	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	189048.19	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	428468.85	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	428468.85	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1524926.31	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1524926.31	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1524926.31	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1524926.31	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1524926.31	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1524926.31	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1664-FS-D(7)	Injection Vial	45
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:18:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	262665.23	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	262665.23	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1317606.76	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1317606.76	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1241131.39	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1241131.39	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	4955695.43	7468.12	2507.7	False	13C3-PFHxS	237632.94	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	1694966.20	7394.89	2850.7	False	13C3-PFHxS	237632.94	1182.50	PFHxS	0.342	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1645431.22	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1645431.22	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1514367.96	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1514367.96	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	12101558.52	16521.72	2150.9	False	13C8-PFOS	238636.20	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	2589229.87	17290.87	5382.0	False	13C8-PFOS	238636.20	1195.00	PFOS	0.214	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1441696.16	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1441696.16	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1329221.55	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1329221.55	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1509415.13	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1509415.13	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1363931.46	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1363931.46	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1363931.46	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1363931.46	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	202382.72	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	202382.72	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	187213.92	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	187213.92	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	475801.70	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	475801.70	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1645431.22	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1645431.22	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1645431.22	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1645431.22	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1645431.22	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1645431.22	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1665-FS(0)	Injection Vial	46
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:29:25 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	4377922.83	17641.17	1289.0	False	13C3-PFBS	115618.47	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	1462079.03	17436.45	1480.4	False	13C3-PFBS	115618.47	1162.50	PFBS	0.334	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	35829389.09	106331.18	700.8	False	13C5-PFHxA	371424.14	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	2004090.88	96860.47	762.4	False	13C5-PFHxA	371424.14	1250.00	PFHxA	0.056	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	14050252.53	81149.45	635.8	False	13C4-PFHpA	266953.42	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	551694.07	98359.85	1257.1	False	13C4-PFHpA	266953.42	1250.00	PFHpA	0.039	0.029	✓
PFHxS_1	399.0 / 80.0	1.90	75798011.53	391576.77	2780.6	False	13C3-PFHxS	69596.67	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	24688705.94	369207.32	2665.1	False	13C3-PFHxS	69596.67	1182.50	PFHxS	0.326	0.345	✓
PFOA_1	413.0 / 369.0	2.25	53253204.42	125318.82	942.4	False	13C8-PFOA	612961.25	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	5463055.94	126872.45	2682.6	False	13C8-PFOA	612961.25	1222.50	PFOA	0.103	0.096	✓
PFNA_1	463.0 / 419.0	2.62	32041462.17	168287.72	1417.5	False	13C9-PFNA	296262.26	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	10626171.06	157005.41	2240.5	False	13C9-PFNA	296262.26	1250.00	PFNA	0.332	0.346	✓
PFOS_1	499.0 / 80.0	2.57	261900943.88	1562068.87	3263.7	False	13C8-PFOS	54696.50	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	50002866.50	1457831.97	5562.9	False	13C8-PFOS	54696.50	1195.00	PFOS	0.191	0.202	✓
PFDA_1	513.0 / 469.0	2.97	4442618.80	7584.96	863.0	False	13C6-PFDA	833402.63	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.97	269297.67	7749.76	1338.2	True	13C6-PFDA	833402.63	1250.00	PFDA	0.061	0.055	✓
PFUnA_1	563.0 / 519.0	3.29	21817583.57	30661.29	2319.6	False	13C7-PFUnA	800794.88	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	1194580.78	25693.16	2091.8	False	13C7-PFUnA	800794.88	1250.00	PFUnA	0.055	0.063	✓
PFDaA_1	613.0 / 569.0	3.58	133893.03	115.14	208.6	False	13C2-PFDaA	920026.15	1250.00	PFDaA			
PFDaA_2	613.0 / 319.0	3.59	13936.06	111.37	270.6	False	13C2-PFDaA	920026.15	1250.00	PFDaA	0.104	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.84	446873.99	1100.17	1130.8	False	13C2-PFTTeDA	533294.14	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.83	29604.96	1008.30	810.2	True	13C2-PFTTeDA	533294.14	1250.00	PFTTrDA	0.066	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	533294.14	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	533294.14	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	137394.81	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	137394.81	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	107012.08	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	107012.08	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	285719.90	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	285719.90	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	612961.25	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	612961.25	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	612961.25	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	612961.25	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	612961.25	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	612961.25	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1665-FS-D(3)	Injection Vial	47
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:39:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	228868.77	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	228868.77	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	1.56	15935632.36	19945.63	753.2	False	13C5-PFHxA	878591.21	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.56	949724.71	19352.94	778.8	False	13C5-PFHxA	878591.21	1250.00	PFHxA	0.060	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	803670.96	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	803670.96	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.89	32869240.98	68499.90	2933.7	False	13C3-PFHxS	172459.86	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.89	10791208.70	65100.08	2828.8	False	13C3-PFHxS	172459.86	1182.50	PFHxS	0.328	0.345	✓
PFOA_1	413.0 / 369.0	2.24	20895937.73	22704.69	896.7	False	13C8-PFOA	1325739.30	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.23	2132730.26	22909.67	1743.9	True	13C8-PFOA	1325739.30	1222.50	PFOA	0.102	0.096	✓
PFNA_1	463.0 / 419.0	2.60	14788746.31	27231.23	1706.8	False	13C9-PFNA	843039.28	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.60	5309258.89	27524.31	2640.6	False	13C9-PFNA	843039.28	1250.00	PFNA	0.359	0.346	✓
PFOS_1	499.0 / 80.0	2.58	101162520.22	251592.27	3110.2	False	13C8-PFOS	131163.54	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.59	20452114.04	248645.32	4873.6	False	13C8-PFOS	131163.54	1195.00	PFOS	0.202	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1298104.08	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1298104.08	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	3.26	5623566.46	5447.41	1459.6	False	13C7-PFUnA	1158105.35	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.26	290409.02	4322.41	3112.6	False	13C7-PFUnA	1158105.35	1250.00	PFUnA	0.052	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1436635.24	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1436635.24	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1213150.98	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1213150.98	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1213150.98	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1213150.98	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	173151.50	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	173151.50	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	164237.83	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	164237.83	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	409439.12	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	409439.12	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325739.30	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325739.30	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325739.30	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325739.30	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325739.30	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1325739.30	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1665-FS-D(7)	Injection Vial	49
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:00:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	287766.46	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	287766.46	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1326441.03	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1326441.03	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1207804.13	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1207804.13	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	6722611.74	9930.57	2484.4	False	13C3-PFHxS	242669.33	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	2251924.19	9629.73	2778.7	False	13C3-PFHxS	242669.33	1182.50	PFHxS	0.335	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1714800.18	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1714800.18	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1465231.66	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1465231.66	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	22801382.38	34121.07	2818.0	False	13C8-PFOS	217864.80	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	5056921.04	37003.07	5685.9	False	13C8-PFOS	217864.80	1195.00	PFOS	0.222	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1461113.89	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1461113.89	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1305743.83	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1305743.83	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1540685.92	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1540685.92	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1321418.48	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1321418.48	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1321418.48	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1321418.48	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	175359.79	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	175359.79	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	215979.93	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	215979.93	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	444600.76	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	444600.76	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1714800.18	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1714800.18	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1714800.18	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1714800.18	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1714800.18	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1714800.18	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1666MS-FS(0)	Injection Vial	52
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:32:35 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.33	7530084.49	28325.67	1784.0	False	13C3-PFBS	124174.97	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	2519796.36	28039.73	2022.9	False	13C3-PFBS	124174.97	1162.50	PFBS	0.335	0.331	✓
PFHxA_1	313.0 / 269.0	1.58	40601955.34	119552.46	825.8	False	13C5-PFHxA	374374.28	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	2310966.05	110821.36	947.3	False	13C5-PFHxA	374374.28	1250.00	PFHxA	0.057	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	16529471.91	94522.89	588.2	False	13C4-PFHpA	269667.75	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	649473.21	114624.51	1255.8	False	13C4-PFHpA	269667.75	1250.00	PFHpA	0.039	0.029	✓
PFHxS_1	399.0 / 80.0	1.92	80295668.78	402515.12	2557.1	False	13C3-PFHxS	71723.00	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	26580743.15	385718.64	2640.5	False	13C3-PFHxS	71723.00	1182.50	PFHxS	0.331	0.345	✓
PFOA_1	413.0 / 369.0	2.27	57003717.62	129959.63	950.7	False	13C8-PFOA	632707.49	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	6067153.56	136503.56	2155.5	False	13C8-PFOA	632707.49	1222.50	PFOA	0.106	0.096	✓
PFNA_1	463.0 / 419.0	2.64	32988379.95	172048.16	1492.0	False	13C9-PFNA	298353.92	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	11289584.07	165641.03	1948.0	False	13C9-PFNA	298353.92	1250.00	PFNA	0.342	0.346	✓
PFOS_1	499.0 / 80.0	2.59	246672773.93	1421182.42	2544.9	False	13C8-PFOS	56623.07	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	46109800.43	1298588.29	5138.1	False	13C8-PFOS	56623.07	1195.00	PFOS	0.187	0.202	✓
PFDA_1	513.0 / 469.0	3.00	10165102.89	18186.78	1026.8	False	13C6-PFDA	800127.77	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	653706.72	19608.44	1667.1	False	13C6-PFDA	800127.77	1250.00	PFDA	0.064	0.055	✓
PFUnA_1	563.0 / 519.0	3.32	20904863.78	34823.51	2346.5	False	13C7-PFUnA	675640.13	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	1305242.05	33272.33	2916.2	False	13C7-PFUnA	675640.13	1250.00	PFUnA	0.062	0.063	✓
PFDoA_1	613.0 / 569.0	3.61	6762461.14	12468.18	2031.2	False	13C2-PFDoA	724156.52	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.61	871800.20	13209.65	2910.4	False	13C2-PFDoA	724156.52	1250.00	PFDoA	0.129	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.87	3790782.39	31345.63	2850.4	False	13C2-PFTTeDA	170146.09	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.87	291423.68	32445.65	2450.8	False	13C2-PFTTeDA	170146.09	1250.00	PFTTrDA	0.077	0.071	✓
PFTeDA_1	713.0 / 669.0	4.10	1645853.23	12608.41	3499.9	False	13C2-PFTeDA	170146.09	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.10	96321.39	12257.07	2477.2	False	13C2-PFTeDA	170146.09	1250.00	PFTeDA	0.059	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	840004.36	13035.65	2728.9	False	d3-MeFOSAA	115907.28	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.14	869618.53	13449.06	1586.2	False	d3-MeFOSAA	115907.28	1250.00	NMeFOSAA	1.035	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.31	831924.75	11106.00	1241.5	False	d5-EtFOSAA	100775.82	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.31	46348.31	10757.30	583.6	False	d5-EtFOSAA	100775.82	1250.00	NEtFOSAA	0.056	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.67	4765366.54	9297.90	1301.8	False	13C3-HFPO-DA	293111.30	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	116004.36	10680.81	1101.9	False	13C3-HFPO-DA	293111.30	1250.00	HFPO-DA	0.024	0.021	✓
ADONA_1	377.0 / 251.0	1.95	7869310.17	8323.43	2949.8	False	13C8-PFOA	632707.49	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.95	123992.99	8623.24	477.2	False	13C8-PFOA	632707.49	1222.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	9568281.47	17639.41	2924.4	False	13C8-PFOA	632707.49	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.84	94386.25	17765.36	619.6	False	13C8-PFOA	632707.49	1222.50	9CI-PF3ONS	0.010	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	5724661.08	14774.51	6023.2	True	13C8-PFOA	632707.49	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	30999.70	15079.94	835.6	False	13C8-PFOA	632707.49	1222.50	11Cl-PF3OUdS	0.005	0.006	✓



Sample Name	G1666MS-FS-D(3)	Injection Vial	53
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:43:04 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	229496.91	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	229496.91	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	17250574.81	22072.48	668.7	False	13C5-PFHxA	859684.59	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	1053509.72	21948.61	912.8	False	13C5-PFHxA	859684.59	1250.00	PFHxA	0.061	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	8219771.18	14877.40	563.5	False	13C4-PFHpA	847558.36	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	279782.45	15724.19	1355.7	False	13C4-PFHpA	847558.36	1250.00	PFHpA	0.034	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	34922824.81	75179.26	2710.3	False	13C3-PFHxS	166961.65	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	11591319.19	72232.87	3247.4	False	13C3-PFHxS	166961.65	1182.50	PFHxS	0.332	0.345	✓
PFOA_1	413.0 / 369.0	2.26	21729890.28	24102.95	1037.0	False	13C8-PFOA	1298796.17	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	2262042.35	24801.87	2074.1	True	13C8-PFOA	1298796.17	1222.50	PFOA	0.104	0.096	✓
PFNA_1	463.0 / 419.0	2.63	15671524.39	30075.26	1546.0	False	13C9-PFNA	809099.40	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	5491046.53	29664.93	2207.8	False	13C9-PFNA	809099.40	1250.00	PFNA	0.350	0.346	✓
PFOS_1	499.0 / 80.0	2.62	91628530.16	220200.31	2603.3	False	13C8-PFOS	135736.97	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	19125087.26	224676.84	3871.1	False	13C8-PFOS	135736.97	1195.00	PFOS	0.209	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1227382.08	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1227382.08	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	3.31	5769744.18	5897.77	1788.4	False	13C7-PFUnA	1097799.31	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	308272.12	4839.85	2052.5	False	13C7-PFUnA	1097799.31	1250.00	PFUnA	0.053	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1309159.96	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1309159.96	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1142755.73	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1142755.73	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1142755.73	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1142755.73	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	165080.04	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	165080.04	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	168432.80	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	168432.80	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	378420.65	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	378420.65	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298796.17	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298796.17	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298796.17	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298796.17	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298796.17	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1298796.17	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1666MS-FS-D(7)	Injection Vial	1
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:04:01 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	264183.66	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	264183.66	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1347100.29	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1347100.29	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1217843.03	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1217843.03	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	3775405.60	5810.85	1894.5	False	13C3-PFHxS	232399.09	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	1320863.71	5886.56	1737.1	False	13C3-PFHxS	232399.09	1182.50	PFHxS	0.350	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1599419.43	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1599419.43	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1473475.26	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1473475.26	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.62	11239311.28	15719.76	2177.7	False	13C8-PFOS	232924.26	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	2372357.83	16230.39	3407.7	False	13C8-PFOS	232924.26	1195.00	PFOS	0.211	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1364359.85	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1364359.85	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1231047.72	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1231047.72	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1444413.71	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1444413.71	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1275458.64	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1275458.64	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1275458.64	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1275458.64	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	193942.91	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	193942.91	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	199111.63	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	199111.63	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	442070.49	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	442070.49	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1599419.43	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1599419.43	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1599419.43	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1599419.43	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1599419.43	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1599419.43	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1667MSD-FS(0)	Injection Vial	2
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:14:30 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.32	7160401.09	31193.14	1625.6	False	13C3-PFBS	107266.49	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	2412363.82	31086.44	1796.1	False	13C3-PFBS	107266.49	1162.50	PFBS	0.337	0.331	✓
PFHxA_1	313.0 / 269.0	1.56	37803652.35	120685.68	780.5	False	13C5-PFHxA	345300.79	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	2247937.84	116878.82	829.1	False	13C5-PFHxA	345300.79	1250.00	PFHxA	0.059	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	15785783.91	92141.15	571.4	False	13C4-PFHpA	264185.24	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.88	608278.24	109582.62	1288.4	False	13C4-PFHpA	264185.24	1250.00	PFHpA	0.039	0.029	✓
PFHxS_1	399.0 / 80.0	1.90	76619529.75	360239.70	2560.9	False	13C3-PFHxS	76470.26	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	24344015.79	331326.50	2694.4	False	13C3-PFHxS	76470.26	1182.50	PFHxS	0.318	0.345	✓
PFOA_1	413.0 / 369.0	2.25	54875208.36	136655.98	1028.6	False	13C8-PFOA	579244.61	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	5883776.47	144595.28	2410.8	True	13C8-PFOA	579244.61	1222.50	PFOA	0.107	0.096	✓
PFNA_1	463.0 / 419.0	2.62	30394800.67	152187.51	1479.5	False	13C9-PFNA	310753.18	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	10483765.96	147674.90	2284.2	False	13C9-PFNA	310753.18	1250.00	PFNA	0.345	0.346	✓
PFOS_1	499.0 / 80.0	2.56	223440710.64	1281433.74	2690.7	False	13C8-PFOS	56883.65	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	42289734.27	1185547.07	4833.7	False	13C8-PFOS	56883.65	1195.00	PFOS	0.189	0.202	✓
PFDA_1	513.0 / 469.0	2.96	8319681.19	17326.71	1038.8	False	13C6-PFDA	687226.83	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.96	559235.03	19530.48	1813.0	False	13C6-PFDA	687226.83	1250.00	PFDA	0.067	0.055	✓
PFUnA_1	563.0 / 519.0	3.28	15225707.49	35586.96	2111.3	False	13C7-PFUnA	481540.63	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.28	901813.56	32254.71	2824.9	False	13C7-PFUnA	481540.63	1250.00	PFUnA	0.059	0.063	✓
PFDoA_1	613.0 / 569.0	3.58	3508279.20	12790.71	1542.0	False	13C2-PFDoA	366269.24	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.58	422853.09	12665.37	2254.6	False	13C2-PFDoA	366269.24	1250.00	PFDoA	0.121	0.119	✓
PFTeDA_1	663.0 / 619.0	3.83	1040038.79	34470.63	1430.3	True	13C2-PFTeDA	42459.31	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.83	88019.55	39279.31	1266.4	False	13C2-PFTeDA	42459.31	1250.00	PFTeDA	0.085	0.071	✓
PFTeDA_1	713.0 / 669.0	4.06	405234.23	12438.75	1900.0	False	13C2-PFTeDA	42459.31	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.06	22976.27	11715.59	1116.3	False	13C2-PFTeDA	42459.31	1250.00	PFTeDA	0.057	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.11	673509.66	13754.44	2592.7	False	d3-MeFOSAA	88075.21	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.11	680615.96	13853.88	1577.5	False	d3-MeFOSAA	88075.21	1250.00	NMeFOSAA	1.011	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.28	605581.34	12508.40	1321.2	False	d5-EtFOSAA	65166.50	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.28	34572.41	12401.36	661.5	False	d5-EtFOSAA	65166.50	1250.00	NEtFOSAA	0.057	0.052	✓
HFPO-DA_1	285.0 / 169.0	1.65	4599408.32	9326.66	1523.0	False	13C3-HFPO-DA	282063.59	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	108699.37	10390.74	836.8	False	13C3-HFPO-DA	282063.59	1250.00	HFPO-DA	0.024	0.021	✓
ADONA_1	377.0 / 251.0	1.93	7831188.13	9049.65	2923.3	False	13C8-PFOA	579244.61	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	135184.79	10270.34	502.9	False	13C8-PFOA	579244.61	1222.50	ADONA	0.017	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.81	8224504.40	16564.04	2711.0	False	13C8-PFOA	579244.61	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.81	84048.37	17279.27	504.5	False	13C8-PFOA	579244.61	1222.50	9CI-PF3ONS	0.010	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.44	3965275.93	11181.22	4706.7	False	13C8-PFOA	579244.61	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.44	20217.71	10731.06	829.0	False	13C8-PFOA	579244.61	1222.50	11Cl-PF3OUdS	0.005	0.006	✓

Sample Name	G1667MSD-FS-D(3)	Injection Vial	3
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:24:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	230297.17	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	230297.17	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	1.57	15465185.18	19096.71	775.3	False	13C5-PFHxA	890442.31	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	961103.48	19324.05	747.1	False	13C5-PFHxA	890442.31	1250.00	PFHxA	0.062	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	7655372.00	14817.11	564.6	False	13C4-PFHpA	792553.85	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	253937.79	15262.62	1127.9	False	13C4-PFHpA	792553.85	1250.00	PFHpA	0.033	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	31335291.97	63071.34	2877.0	False	13C3-PFHxS	178555.55	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	10211277.99	59496.00	2941.3	False	13C3-PFHxS	178555.55	1182.50	PFHxS	0.326	0.345	✓
PFOA_1	413.0 / 369.0	2.26	18964661.64	21189.91	1036.0	False	13C8-PFOA	1289068.77	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	1956761.05	21618.01	2041.4	True	13C8-PFOA	1289068.77	1222.50	PFOA	0.103	0.096	✓
PFNA_1	463.0 / 419.0	2.63	13513972.97	23384.19	1556.0	False	13C9-PFNA	896689.34	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	4921550.10	23981.03	2568.6	False	13C9-PFNA	896689.34	1250.00	PFNA	0.364	0.346	✓
PFOS_1	499.0 / 80.0	2.61	83058675.61	208741.44	2774.0	False	13C8-PFOS	129795.40	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	17043076.90	209382.36	3809.7	False	13C8-PFOS	129795.40	1195.00	PFOS	0.205	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1150163.41	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1150163.41	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	3.30	4068004.03	4386.18	1407.6	False	13C7-PFUnA	1039479.67	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	225295.67	3736.50	1849.5	False	13C7-PFUnA	1039479.67	1250.00	PFUnA	0.055	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1222329.95	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1222329.95	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1042180.98	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1042180.98	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1042180.98	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1042180.98	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	159140.05	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	159140.05	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	161824.15	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	161824.15	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	385923.32	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	385923.32	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1289068.77	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1289068.77	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1289068.77	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1289068.77	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1289068.77	1222.50	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1289068.77	1222.50	11Cl-pf3OUdS	N/A	0.006	✓



Sample Name	G1667MSD-FS-D(7)	Injection Vial	5
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:45:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	299654.78	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	299654.78	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1418452.34	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1418452.34	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1342305.82	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1342305.82	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	1.91	6469785.80	9419.65	2375.2	False	13C3-PFHxS	246169.55	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	2204735.17	9292.86	2497.2	False	13C3-PFHxS	246169.55	1182.50	PFHxS	0.341	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1827575.90	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1827575.90	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1613633.48	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1613633.48	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	18242016.35	24156.05	2367.2	False	13C8-PFOS	246138.69	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	3845280.07	24901.20	4243.4	False	13C8-PFOS	246138.69	1195.00	PFOS	0.211	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1554890.45	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1554890.45	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1344617.12	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1344617.12	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1586769.13	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1586769.13	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1379392.45	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1379392.45	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1379392.45	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1379392.45	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	198227.73	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	198227.73	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	204138.08	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	204138.08	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	512563.95	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	512563.95	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1827575.90	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1827575.90	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1827575.90	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1827575.90	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1827575.90	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1827575.90	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	LD80 IB	Injection Vial	4
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:38:38 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	228045.78	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	228045.78	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1130175.72	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1130175.72	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1150612.47	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1150612.47	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	229027.01	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	229027.01	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1404975.06	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1404975.06	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1303268.88	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1303268.88	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	197290.14	1195.00	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	197290.14	1195.00	PFOS	N/A	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1164809.24	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1164809.24	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1059196.80	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1059196.80	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	3.63	8257.22	< 0	42.8	False	13C2-PFDoA	1344341.56	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.63	954.92	< 0	52.0	False	13C2-PFDoA	1344341.56	1250.00	PFDoA	0.116	0.119	✓
PFTTrDA_1	663.0 / 619.0	3.89	11068.29	< 0	160.6	False	13C2-PFTTeDA	1145697.32	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.90	709.36	< 0	43.5	False	13C2-PFTTeDA	1145697.32	1250.00	PFTTrDA	0.064	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1145697.32	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1145697.32	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.16	3709.30	44.02	21206.6	True	d3-MeFOSAA	172409.45	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.15	5442.32	4.49	3969.8	True	d3-MeFOSAA	172409.45	1250.00	NMeFOSAA	1.467	1.073	✓
NEtFOSAA_1	584.0 / 419.0	3.33	7325.15	10.77	936.2	True	d5-EtFOSAA	159709.48	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	159709.48	1250.00	NEtFOSAA	N/A	0.052	
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	433433.47	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	433433.47	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	1.94	6071.21	< 0	238.4	False	13C8-PFOA	1404975.06	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1404975.06	1222.50	ADONA	N/A	0.015	
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1404975.06	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1404975.06	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1404975.06	1222.50	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1404975.06	1222.50	11Cl-pf3OUdS	N/A	0.006	✓

Sample Name	G1645-FS-D(7)	Injection Vial	8
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:20:27 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	266035.94	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	266035.94	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1223166.58	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1223166.58	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1184093.81	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1184093.81	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	232662.71	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	232662.71	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1478170.25	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1478170.25	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1447225.18	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1447225.18	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.64	7427742.10	10245.22	1705.2	False	13C8-PFOS	236010.87	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	1563292.49	10551.25	2525.0	False	13C8-PFOS	236010.87	1195.00	PFOS	0.210	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1366995.17	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1366995.17	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1183930.09	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1183930.09	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1410872.49	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1410872.49	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1219280.88	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1219280.88	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1219280.88	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1219280.88	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	170243.28	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	170243.28	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	187487.76	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	187487.76	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	423065.04	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	423065.04	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1478170.25	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1478170.25	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1478170.25	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1478170.25	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1478170.25	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1478170.25	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1663-FS-D(9)	Injection Vial	18
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:05:03 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	255971.20	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	255971.20	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1350150.90	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1350150.90	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1254152.95	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1254152.95	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	245811.64	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	245811.64	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1660470.57	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1660470.57	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1629898.90	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1629898.90	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	5065356.01	7410.35	1162.3	False	13C8-PFOS	222336.87	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	1032125.89	7391.14	2386.5	False	13C8-PFOS	222336.87	1195.00	PFOS	0.204	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1490127.13	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1490127.13	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1325130.00	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1325130.00	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1533900.75	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1533900.75	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1393702.81	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1393702.81	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1393702.81	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1393702.81	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	186801.30	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	186801.30	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	207709.09	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	207709.09	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	467718.38	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	467718.38	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1660470.57	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1660470.57	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1660470.57	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1660470.57	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1660470.57	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1660470.57	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1665-FS-D(9)	Injection Vial	20
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:26:00 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	267430.91	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	267430.91	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1327360.09	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1327360.09	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1333037.28	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1333037.28	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	260805.86	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	260805.86	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1654022.53	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1654022.53	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1648699.47	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1648699.47	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.64	5146886.36	7134.50	1202.3	False	13C8-PFOS	234623.51	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	1109988.97	7532.70	1625.6	False	13C8-PFOS	234623.51	1195.00	PFOS	0.216	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1406482.74	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1406482.74	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1330074.09	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1330074.09	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1505724.80	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1505724.80	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1346079.90	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1346079.90	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1346079.90	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1346079.90	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	196023.91	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	196023.91	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	201001.49	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	201001.49	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	447557.05	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	447557.05	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1654022.53	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1654022.53	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1654022.53	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1654022.53	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1654022.53	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1654022.53	1222.50	11Cl-PF3OUdS	N/A	0.006	✓



Sample Name	G1666MS-FS-D(9)	Injection Vial	24
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:07:53 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	269825.96	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	269825.96	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1362533.33	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1362533.33	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1255593.34	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1255593.34	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	242333.51	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	242333.51	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1688350.20	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1688350.20	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1507396.89	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1507396.89	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.63	4580129.49	6562.46	1636.7	False	13C8-PFOS	226926.47	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	1008362.13	7074.43	2274.3	False	13C8-PFOS	226926.47	1195.00	PFOS	0.220	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1498390.27	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1498390.27	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1336461.14	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1336461.14	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1519346.64	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1519346.64	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1322372.34	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1322372.34	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1322372.34	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1322372.34	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	188445.73	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	188445.73	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	202270.72	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	202270.72	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	465209.95	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	465209.95	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1688350.20	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1688350.20	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1688350.20	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1688350.20	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1688350.20	1222.50	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1688350.20	1222.50	11Cl-pf3OUdS	N/A	0.006	✓

Sample Name	G1667MSD-FS-D(9)	Injection Vial	26
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:28:49 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	279627.34	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	279627.34	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1313462.62	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1313462.62	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1271736.08	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1271736.08	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	233424.31	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	233424.31	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1665875.45	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1665875.45	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1518429.73	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1518429.73	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.64	7223182.81	9637.79	1203.3	False	13C8-PFOS	243943.21	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	1575003.42	10284.33	2001.5	False	13C8-PFOS	243943.21	1195.00	PFOS	0.218	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1473789.37	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1473789.37	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1319775.28	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1319775.28	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1528007.92	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1528007.92	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1343976.00	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1343976.00	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1343976.00	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1343976.00	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	199314.24	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	199314.24	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	195753.84	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	195753.84	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	441987.45	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	441987.45	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1665875.45	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1665875.45	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1665875.45	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1665875.45	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1665875.45	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1665875.45	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	G1668-FS-D(7)	Injection Vial	28
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:49:45 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	264455.65	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	264455.65	1162.50	PFBS	N/A	0.331	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1225503.81	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1225503.81	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1196976.40	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1196976.40	1250.00	PFHpA	N/A	0.029	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	217587.71	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	217587.71	1182.50	PFHxS	N/A	0.345	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1501528.79	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1501528.79	1222.50	PFOA	N/A	0.096	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1368764.93	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1368764.93	1250.00	PFNA	N/A	0.346	✓
PFOS_1	499.0 / 80.0	2.64	8265433.42	11955.59	1418.6	False	13C8-PFOS	225125.23	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	1854240.24	13122.95	3356.9	False	13C8-PFOS	225125.23	1195.00	PFOS	0.224	0.202	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1338896.82	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1338896.82	1250.00	PFDA	N/A	0.055	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1239326.80	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1239326.80	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1543789.38	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1543789.38	1250.00	PFDoA	N/A	0.119	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1319818.03	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1319818.03	1250.00	PFTTrDA	N/A	0.071	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1319818.03	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1319818.03	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	194005.40	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	194005.40	1250.00	NMeFOSAA	N/A	1.073	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	192909.92	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	192909.92	1250.00	NEtFOSAA	N/A	0.052	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	387681.94	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	387681.94	1250.00	HFPO-DA	N/A	0.021	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1501528.79	1222.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1501528.79	1222.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1501528.79	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1501528.79	1222.50	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1501528.79	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1501528.79	1222.50	11Cl-PF3OUdS	N/A	0.006	✓

Sample Name	LD80 IB	Injection Vial	8
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 4:10:26 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	1450043.21	1235.15	3909.1	False	13C2-PFDA	1077516.43	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	186623.87	1198.74	1395.3	False	13C4-PFOS	218525.13	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	189038.94	1272.28	1166.1	False	13C4-PFOS	218525.13	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1334473.16	1432.01	9229.0	False	13C2-PFOA	733801.21	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1269472.74	1380.99	11756.4	False	13C2-PFOA	733801.21	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1603465.71	1343.25	10530.2	False	13C2-PFOA	733801.21	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1567049.56	1273.54	3832.1	False	13C4-PFOS	218525.13	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1413621.21	1364.51	4057.8	False	13C2-PFDA	1077516.43	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1267458.84	1349.93	4703.0	False	13C2-PFDA	1077516.43	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1264129.30	1255.09	4115.6	False	13C2-PFDA	1077516.43	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	256509.24	1043.53	6161.2	False	13C4-PFOS	218525.13	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	228229.45	1149.92	6711.4	False	13C4-PFOS	218525.13	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	229148.45	1208.18	1565.4	False	13C4-PFOS	218525.13	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	522123.47	1333.90	9193.6	False	13C2-PFOA	733801.21	1250.00		N/A	N/A	✓

Sample Name	LD80 IB	Injection Vial	4
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 9:55:12 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.71	1162063.64	1086.54	5617.6	False	13C2-PFDA	981632.04	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.23	143277.04	1262.42	1655.2	False	13C4-PFOS	159305.70	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.40	158279.67	1461.26	1679.7	False	13C4-PFOS	159305.70	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.61	1030040.27	1280.70	44300.2	False	13C2-PFOA	633320.95	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.95	1026353.19	1293.65	83060.3	False	13C2-PFOA	633320.95	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.33	1268861.05	1231.59	32064.0	False	13C2-PFOA	633320.95	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.71	1114952.63	1242.96	6170.0	False	13C4-PFOS	159305.70	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.08	1050453.28	1113.00	11976.3	False	13C2-PFDA	981632.04	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.41	1024508.56	1197.76	7287.0	False	13C2-PFDA	981632.04	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.22	1054209.78	1148.91	6067.1	False	13C2-PFDA	981632.04	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.35	217171.76	1211.92	84176.8	False	13C4-PFOS	159305.70	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.97	175489.77	1212.88	13234.0	False	13C4-PFOS	159305.70	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.71	168442.90	1218.25	1833.2	False	13C4-PFOS	159305.70	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.71	453031.24	1341.01	15151.6	False	13C2-PFOA	633320.95	1250.00		N/A	N/A	✓

Sample Name	DA891PB-FS(0)	Injection Vial	1
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:38:04 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	1288989.88	903.63	5108.8	False	13C2-PFDA	1309242.10	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.15	168089.18	926.93	1564.9	False	13C4-PFOS	254537.30	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	179106.97	1034.89	1656.3	False	13C4-PFOS	254537.30	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1215489.23	954.59	4127.6	False	13C2-PFOA	1002649.93	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1200200.49	955.54	10673.5	False	13C2-PFOA	1002649.93	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1539700.15	943.98	13044.2	False	13C2-PFOA	1002649.93	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1458376.60	1017.54	4269.7	False	13C4-PFOS	254537.30	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	1261483.88	1002.14	12336.8	False	13C2-PFDA	1309242.10	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.33	1139596.57	998.93	22870.8	False	13C2-PFDA	1309242.10	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	1147124.08	937.34	5232.8	False	13C2-PFDA	1309242.10	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	262250.94	915.94	5373.3	False	13C4-PFOS	254537.30	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	228794.24	989.67	7731.1	False	13C4-PFOS	254537.30	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	207270.93	938.22	1541.0	False	13C4-PFOS	254537.30	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	437503.24	818.01	6162.7	False	13C2-PFOA	1002649.93	1250.00		N/A	N/A	✓

Sample Name	DA892LCS-FS(0)	Injection Vial	2
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:48:33 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	1179866.72	877.42	6495.0	False	13C2-PFDA	1234212.55	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.15	180195.81	1158.43	1522.8	False	13C4-PFOS	218338.86	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.32	152676.69	1028.43	1297.6	False	13C4-PFOS	218338.86	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1044771.62	872.14	4178.2	False	13C2-PFOA	943306.20	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1081571.78	915.27	16328.7	False	13C2-PFOA	943306.20	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1275169.36	830.98	1404.1	False	13C2-PFOA	943306.20	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1289500.47	1048.87	1542.1	False	13C4-PFOS	218338.86	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	1162393.46	979.56	4972.0	False	13C2-PFDA	1234212.55	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.33	1039521.40	966.60	4680.8	False	13C2-PFDA	1234212.55	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	1170644.11	1014.71	5407.0	False	13C2-PFDA	1234212.55	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	276513.82	1125.87	5650.0	False	13C4-PFOS	218338.86	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	203903.06	1028.23	15033.9	False	13C4-PFOS	218338.86	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	196499.16	1036.92	1368.1	False	13C4-PFOS	218338.86	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	483953.08	961.79	5359.9	False	13C2-PFOA	943306.20	1250.00		N/A	N/A	✓

Sample Name	G1651-FS(0)	Injection Vial	3
Sample ID	CBD-AOA-SW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:59:02 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	311344.95	270.23	4897.0	False	13C2-PFDA	1057483.62	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	41574.80	350.42	466.1	False	13C4-PFOS	166530.67	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	41893.64	369.99	739.2	False	13C4-PFOS	166530.67	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	213420.29	217.98	822.9	False	13C2-PFOA	770980.79	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	265090.83	274.47	925.8	False	13C2-PFOA	770980.79	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	397402.38	316.86	1150.5	False	13C2-PFOA	770980.79	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	388797.44	414.63	1328.5	False	13C4-PFOS	166530.67	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	365259.27	359.25	3852.6	False	13C2-PFDA	1057483.62	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	274924.51	298.36	3132.3	False	13C2-PFDA	1057483.62	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	148531.48	150.26	3874.0	False	13C2-PFDA	1057483.62	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	73231.56	390.94	849.8	False	13C4-PFOS	166530.67	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	60904.40	402.67	401.5	False	13C4-PFOS	166530.67	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	55261.03	382.33	351.3	False	13C4-PFOS	166530.67	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	147725.31	359.20	446.3	False	13C2-PFOA	770980.79	1250.00		N/A	N/A	✓

Sample Name	G1652-FS(0)	Injection Vial	4
Sample ID	CBD-AOA-SW02P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:09:30 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	834802.55	779.15	3638.0	False	13C2-PFDA	983395.88	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.15	134371.11	1220.98	959.4	False	13C4-PFOS	154473.43	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	131555.80	1252.53	865.0	False	13C4-PFOS	154473.43	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	334708.39	467.70	607.0	False	13C2-PFOA	563531.71	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	423328.25	599.66	1092.8	False	13C2-PFOA	563531.71	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	677976.82	739.56	1568.1	False	13C2-PFOA	563531.71	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	783073.68	900.29	1691.3	False	13C4-PFOS	154473.43	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	889064.70	940.31	2834.3	False	13C2-PFDA	983395.88	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	733766.72	856.31	3698.0	False	13C2-PFDA	983395.88	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	474805.51	516.53	4467.0	False	13C2-PFDA	983395.88	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	113795.11	654.90	1056.7	False	13C4-PFOS	154473.43	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	118131.76	842.00	462.0	False	13C4-PFOS	154473.43	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	127289.42	949.41	435.6	False	13C4-PFOS	154473.43	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	254948.91	848.13	520.1	False	13C2-PFOA	563531.71	1250.00		N/A	N/A	✓

Sample Name	G1654-FS(0)	Injection Vial	5
Sample ID	CBD-AOA-SW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:19:58 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.58	639991.07	522.63	3792.5	False	13C2-PFDA	1123933.58	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	93162.46	684.75	735.6	False	13C4-PFOS	190970.70	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	90036.46	693.40	1055.4	False	13C4-PFOS	190970.70	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	322027.10	344.26	721.8	False	13C2-PFOA	736573.39	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	415770.68	450.59	1096.0	False	13C2-PFOA	736573.39	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	654527.29	546.25	1287.3	False	13C2-PFOA	736573.39	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	698736.57	649.80	1798.1	False	13C4-PFOS	190970.70	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	723440.55	669.47	13031.8	False	13C2-PFDA	1123933.58	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	596093.98	608.66	2924.0	False	13C2-PFDA	1123933.58	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	446646.87	425.14	3846.6	False	13C2-PFDA	1123933.58	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.33	109959.14	511.88	968.9	False	13C4-PFOS	190970.70	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	115069.68	663.43	348.6	False	13C4-PFOS	190970.70	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	96888.16	584.55	347.8	False	13C4-PFOS	190970.70	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	240970.68	613.31	475.8	False	13C2-PFOA	736573.39	1250.00		N/A	N/A	✓

Sample Name	G1655-FS(0)	Injection Vial	6
Sample ID	CBD-AOA-FB03-101320	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:30:25 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	1346819.75	816.17	7315.9	False	13C2-PFDA	1514578.62	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	238852.30	1423.24	2030.7	False	13C4-PFOS	235564.33	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	192385.82	1201.15	1673.8	False	13C4-PFOS	235564.33	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1167761.54	764.66	4928.9	False	13C2-PFOA	1202544.48	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1069861.14	710.18	6426.0	False	13C2-PFOA	1202544.48	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1475264.18	754.13	559040.3	False	13C2-PFOA	1202544.48	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1369582.64	1032.55	8441.0	False	13C4-PFOS	235564.33	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1293683.97	888.39	11333.2	False	13C2-PFDA	1514578.62	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1123372.31	851.21	6348.7	False	13C2-PFDA	1514578.62	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1349272.91	953.05	5542.2	False	13C2-PFDA	1514578.62	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	301503.09	1137.85	4890.1	False	13C4-PFOS	235564.33	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	217548.25	1016.82	1911.9	False	13C4-PFOS	235564.33	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	186785.19	913.59	1577.7	False	13C4-PFOS	235564.33	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	429989.34	670.32	4179.6	False	13C2-PFOA	1202544.48	1250.00		N/A	N/A	✓

Sample Name	G1656-FS(0)	Injection Vial	7
Sample ID	CBD-AOA-EB01-101320-SW	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:40:54 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	1368821.26	896.30	5567.3	False	13C2-PFDA	1401703.80	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	184603.28	1161.98	2313.8	False	13C4-PFOS	222996.39	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	198815.50	1311.25	1840.8	False	13C4-PFOS	222996.39	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1084005.86	797.62	5665.6	False	13C2-PFOA	1070170.06	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1113693.44	830.73	12495.3	False	13C2-PFOA	1070170.06	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1306402.48	750.41	5975.7	False	13C2-PFOA	1070170.06	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1388098.22	1105.49	46330.2	False	13C4-PFOS	222996.39	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1200454.52	890.75	2001.2	False	13C2-PFDA	1401703.80	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1063288.20	870.56	6074.1	False	13C2-PFDA	1401703.80	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1172209.75	894.65	4903.4	False	13C2-PFDA	1401703.80	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	307437.14	1225.63	5188.3	False	13C4-PFOS	222996.39	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	213807.52	1055.66	3449.0	False	13C4-PFOS	222996.39	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	188014.31	971.43	1043.3	False	13C4-PFOS	222996.39	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	463623.81	812.16	4092.0	False	13C2-PFOA	1070170.06	1250.00		N/A	N/A	✓

Sample Name	G1657-FS(0)	Injection Vial	8
Sample ID	CBD-AOA-EB01-101320-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:51:22 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1188174.93	757.63	6678.5	False	13C2-PFDA	1439419.43	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	169880.66	1098.79	1416.9	False	13C4-PFOS	217014.40	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	219951.31	1490.63	1921.2	False	13C4-PFOS	217014.40	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1080252.90	709.32	4996.1	False	13C2-PFOA	1199226.51	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1160299.34	772.35	30503.8	False	13C2-PFOA	1199226.51	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1361353.87	697.83	9632.9	False	13C2-PFOA	1199226.51	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1390418.32	1137.86	2554.2	False	13C4-PFOS	217014.40	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1228227.60	887.48	61433.7	False	13C2-PFDA	1439419.43	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	970354.89	773.65	7234.8	False	13C2-PFDA	1439419.43	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	845378.91	628.30	3366.6	False	13C2-PFDA	1439419.43	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	292103.96	1196.61	5694.5	False	13C4-PFOS	217014.40	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	217606.94	1104.03	2131.3	False	13C4-PFOS	217014.40	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	191159.85	1014.90	1538.3	False	13C4-PFOS	217014.40	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	486880.08	761.11	3934.8	False	13C2-PFOA	1199226.51	1250.00		N/A	N/A	✓

Sample Name	G1644-FS(0)	Injection Vial	11
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:22:46 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	927579.68	926.27	5125.8	False	13C2-PFDA	919134.96	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	144225.40	1770.91	732.1	False	13C4-PFOS	114314.62	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	129463.85	1665.63	931.0	False	13C4-PFOS	114314.62	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	336399.03	474.10	648.1	False	13C2-PFOA	558725.03	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	390325.21	557.66	853.5	False	13C2-PFOA	558725.03	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	710150.28	781.32	1303.3	False	13C2-PFOA	558725.03	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	515641.21	801.08	1514.1	False	13C4-PFOS	114314.62	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	901196.59	1019.78	2460.6	False	13C2-PFDA	919134.96	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	816189.53	1019.09	3447.4	False	13C2-PFDA	919134.96	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	618791.01	720.23	5192.8	False	13C2-PFDA	919134.96	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	103365.56	803.85	1018.5	False	13C4-PFOS	114314.62	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	102347.57	985.77	487.7	False	13C4-PFOS	114314.62	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	90800.79	915.18	315.7	False	13C4-PFOS	114314.62	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	257083.10	862.59	768.9	False	13C2-PFOA	558725.03	1250.00		N/A	N/A	✓

Sample Name	G1644-FS-D(3)	Injection Vial	12
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:33:14 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	1330768.66	1043.21	5682.9	False	13C2-PFDA	1170834.12	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	178424.57	1310.46	1221.9	False	13C4-PFOS	191111.51	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	158259.79	1217.91	1868.6	False	13C4-PFOS	191111.51	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	759728.48	711.15	1438.9	False	13C2-PFOA	841228.12	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	860446.45	816.50	1803.8	False	13C2-PFOA	841228.12	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1311254.62	958.19	3206.0	False	13C2-PFOA	841228.12	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1071545.33	995.76	2851.3	False	13C4-PFOS	191111.51	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	1245864.08	1106.73	8132.2	False	13C2-PFDA	1170834.12	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1069450.40	1048.26	4845.1	False	13C2-PFDA	1170834.12	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1144446.07	1045.70	4673.0	False	13C2-PFDA	1170834.12	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	195828.84	910.95	2554.4	False	13C4-PFOS	191111.51	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	195123.06	1124.14	925.1	False	13C4-PFOS	191111.51	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	182050.48	1097.54	654.5	False	13C4-PFOS	191111.51	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	372225.51	829.51	1651.0	False	13C2-PFOA	841228.12	1250.00		N/A	N/A	✓

Sample Name	G1644-FS-D(5)	Injection Vial	13
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:43:42 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	1361980.28	1002.11	6143.7	False	13C2-PFDA	1247435.25	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	178106.67	1269.75	1235.4	False	13C4-PFOS	196888.15	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	182773.37	1365.29	1878.9	False	13C4-PFOS	196888.15	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1045040.58	949.11	2676.2	False	13C2-PFOA	867022.43	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1123489.20	1034.39	3100.2	False	13C2-PFOA	867022.43	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1389563.87	985.20	3534.7	False	13C2-PFOA	867022.43	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1238125.46	1116.80	3364.0	False	13C4-PFOS	196888.15	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1180491.22	984.26	4828.4	False	13C2-PFDA	1247435.25	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1107000.26	1018.43	4153.6	False	13C2-PFDA	1247435.25	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	1131862.89	970.69	4643.3	False	13C2-PFDA	1247435.25	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	226682.99	1023.53	3358.0	False	13C4-PFOS	196888.15	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	202155.52	1130.48	1291.6	False	13C4-PFOS	196888.15	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	196155.47	1147.88	1464.7	False	13C4-PFOS	196888.15	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	386876.10	836.51	2023.5	False	13C2-PFOA	867022.43	1250.00		N/A	N/A	✓

Sample Name	G1645-FS(0)	Injection Vial	14
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:54:10 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	777050.57	680.47	5362.5	False	13C2-PFDA	1048107.26	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	124567.03	1605.48	818.5	False	13C4-PFOS	108907.26	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	121326.16	1638.44	1074.2	False	13C4-PFOS	108907.26	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	345643.55	411.56	755.9	False	13C2-PFOA	661319.63	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	419839.44	506.78	957.3	False	13C2-PFOA	661319.63	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	691711.38	642.97	1765.2	False	13C2-PFOA	661319.63	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	498839.65	813.46	1445.5	False	13C4-PFOS	108907.26	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	859649.44	853.06	2822.7	False	13C2-PFDA	1048107.26	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	699593.61	766.02	2708.7	False	13C2-PFDA	1048107.26	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	264194.38	269.66	5228.1	False	13C2-PFDA	1048107.26	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	115142.84	939.90	1362.7	False	13C4-PFOS	108907.26	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	114673.70	1159.32	600.4	False	13C4-PFOS	108907.26	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	77769.37	822.75	335.2	False	13C4-PFOS	108907.26	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	275111.34	779.88	775.4	False	13C2-PFOA	661319.63	1250.00		N/A	N/A	✓

Sample Name	G1645-FS-D(3)	Injection Vial	15
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:04:40 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	1336512.39	983.98	5786.6	False	13C2-PFDA	1246669.20	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	171645.32	1230.99	1008.3	False	13C4-PFOS	195720.50	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	177274.16	1332.11	1494.8	False	13C4-PFOS	195720.50	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	872539.95	721.41	2076.8	False	13C2-PFOA	952393.63	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	906541.90	759.83	3081.9	False	13C2-PFOA	952393.63	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1406095.67	907.56	3291.0	False	13C2-PFOA	952393.63	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1173336.90	1064.68	3317.8	False	13C4-PFOS	195720.50	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1342720.94	1120.21	3355.6	False	13C2-PFDA	1246669.20	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1146702.35	1055.61	5719.0	False	13C2-PFDA	1246669.20	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1092945.76	937.89	4130.8	False	13C2-PFDA	1246669.20	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	229003.70	1040.18	3706.2	False	13C4-PFOS	195720.50	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	209048.90	1176.01	890.5	False	13C4-PFOS	195720.50	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	183461.04	1080.00	760.5	False	13C4-PFOS	195720.50	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	400069.21	787.49	1737.5	False	13C2-PFOA	952393.63	1250.00		N/A	N/A	✓

Sample Name	G1646-FS(0)	Injection Vial	17
Sample ID	CBD-AOA-SW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:25:37 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	904603.83	835.74	4897.0	False	13C2-PFDA	993465.48	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	154841.48	1252.49	697.4	False	13C4-PFOS	173528.15	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	142142.05	1204.72	999.2	False	13C4-PFOS	173528.15	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	336474.76	428.83	535.3	False	13C2-PFOA	617850.96	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	411787.80	532.03	833.5	False	13C2-PFOA	617850.96	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	699847.19	696.30	1446.1	False	13C2-PFOA	617850.96	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	838954.58	858.62	1776.0	False	13C4-PFOS	173528.15	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	894144.81	936.10	3034.1	False	13C2-PFDA	993465.48	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	795181.05	918.58	3165.7	False	13C2-PFDA	993465.48	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	499860.94	538.27	4229.3	False	13C2-PFDA	993465.48	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	103346.24	529.45	1024.9	False	13C4-PFOS	173528.15	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	129284.70	820.30	480.8	False	13C4-PFOS	173528.15	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	141481.89	939.39	379.2	False	13C4-PFOS	173528.15	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	234429.74	711.31	741.5	False	13C2-PFOA	617850.96	1250.00		N/A	N/A	✓

Sample Name	G1646-FS-D(3)	Injection Vial	18
Sample ID	CBD-AOA-SW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:36:05 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1331418.75	1034.74	5410.2	False	13C2-PFDA	1180995.48	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	188049.10	1204.60	996.9	False	13C4-PFOS	219122.76	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	189550.54	1272.24	1467.8	False	13C4-PFOS	219122.76	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	799015.74	704.89	1254.6	False	13C2-PFOA	892584.66	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	887321.02	793.55	2432.2	False	13C2-PFOA	892584.66	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1298894.24	894.54	2562.1	False	13C2-PFOA	892584.66	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1376350.57	1115.51	3155.6	False	13C4-PFOS	219122.76	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1287993.79	1134.31	3821.5	False	13C2-PFDA	1180995.48	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1138386.15	1106.23	4943.1	False	13C2-PFDA	1180995.48	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1171951.81	1061.62	4881.9	False	13C2-PFDA	1180995.48	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	204981.38	831.63	1996.0	False	13C4-PFOS	219122.76	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	184222.72	925.66	768.5	False	13C4-PFOS	219122.76	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	201199.29	1057.93	692.9	False	13C4-PFOS	219122.76	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	376291.93	790.32	1559.7	False	13C2-PFOA	892584.66	1250.00		N/A	N/A	✓

Sample Name	G1647-FS(0)	Injection Vial	21
Sample ID	CBD-AOA-SW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:07:29 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	657219.87	572.91	4958.8	False	13C2-PFDA	1052901.32	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	133961.33	1105.27	880.8	False	13C4-PFOS	170125.57	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	103495.32	894.71	861.6	False	13C4-PFOS	170125.57	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	363886.06	453.37	597.8	False	13C2-PFOA	632018.65	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	478855.29	604.81	1164.9	False	13C2-PFOA	632018.65	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	837227.52	814.31	1806.6	False	13C2-PFOA	632018.65	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	778003.05	812.16	2000.9	False	13C4-PFOS	170125.57	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	901299.77	890.32	2212.4	False	13C2-PFDA	1052901.32	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	683755.98	745.27	2852.7	False	13C2-PFDA	1052901.32	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	215226.03	218.68	4424.7	False	13C2-PFDA	1052901.32	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	113942.15	595.41	695.6	False	13C4-PFOS	170125.57	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	135719.02	878.35	577.2	False	13C4-PFOS	170125.57	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	147947.45	1001.97	395.3	False	13C4-PFOS	170125.57	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	247053.41	732.81	463.6	False	13C2-PFOA	632018.65	1250.00		N/A	N/A	✓

Sample Name	G1647-FS-D(3)	Injection Vial	22
Sample ID	CBD-AOA-SW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:17:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1304020.01	917.50	5032.0	False	13C2-PFDA	1304496.55	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	175517.93	1084.97	1138.5	False	13C4-PFOS	227071.28	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	187550.74	1214.76	1373.0	False	13C4-PFOS	227071.28	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	812466.25	733.74	1318.7	False	13C2-PFOA	871929.17	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	972240.53	890.10	2508.1	False	13C2-PFOA	871929.17	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1389689.70	979.75	2019.6	False	13C2-PFOA	871929.17	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1381463.77	1080.46	2688.6	False	13C4-PFOS	227071.28	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1289122.04	1027.82	7054.9	False	13C2-PFDA	1304496.55	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1150803.96	1012.42	5317.2	False	13C2-PFDA	1304496.55	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1114038.47	913.61	4676.8	False	13C2-PFDA	1304496.55	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	204043.51	798.85	2078.1	False	13C4-PFOS	227071.28	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	189480.18	918.75	1085.5	False	13C4-PFOS	227071.28	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	202425.84	1027.12	822.3	False	13C4-PFOS	227071.28	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	383479.79	824.50	1069.2	False	13C2-PFOA	871929.17	1250.00		N/A	N/A	✓

Sample Name	G1658-FS(0)	Injection Vial	23
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:28:28 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	897726.62	887.32	4758.2	False	13C2-PFDA	928601.85	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	152489.09	3468.58	1068.2	False	13C4-PFOS	61708.50	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	126953.28	3025.74	1048.9	False	13C4-PFOS	61708.50	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	339842.99	493.36	558.6	False	13C2-PFOA	542410.66	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	266034.82	391.52	741.7	False	13C2-PFOA	542410.66	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	529898.80	600.54	1556.0	False	13C2-PFOA	542410.66	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	306635.75	882.49	878.6	False	13C4-PFOS	61708.50	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	821809.99	920.47	2904.3	False	13C2-PFDA	928601.85	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	831159.78	1027.21	2953.8	False	13C2-PFDA	928601.85	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	604691.17	696.64	3538.5	False	13C2-PFDA	928601.85	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	117262.34	1689.34	1097.8	False	13C4-PFOS	61708.50	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	68781.47	1227.23	475.7	False	13C4-PFOS	61708.50	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	52000.60	970.91	204.2	False	13C4-PFOS	61708.50	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	297299.35	1027.53	723.8	False	13C2-PFOA	542410.66	1250.00		N/A	N/A	✓

Sample Name	G1658-FS-D(3)	Injection Vial	24
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:38:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1374521.07	1027.99	4981.6	False	13C2-PFDA	1227228.43	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	187792.66	1654.13	1537.2	False	13C4-PFOS	159355.66	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	176607.00	1629.95	1435.9	False	13C4-PFOS	159355.66	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	921328.36	747.66	1876.7	False	13C2-PFOA	970340.85	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	818504.34	673.35	2312.0	False	13C2-PFOA	970340.85	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1313972.56	832.41	2605.7	False	13C2-PFOA	970340.85	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	902546.81	1005.85	2178.9	False	13C4-PFOS	159355.66	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1286328.33	1090.17	3891.9	False	13C2-PFDA	1227228.43	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1163236.64	1087.79	4633.9	False	13C2-PFDA	1227228.43	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1283625.01	1118.97	3699.6	False	13C2-PFDA	1227228.43	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	246923.29	1377.52	2647.6	False	13C4-PFOS	159355.66	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	186531.60	1288.79	971.7	False	13C4-PFOS	159355.66	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	149231.85	1078.97	771.8	False	13C4-PFOS	159355.66	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	425256.72	821.59	1845.4	False	13C2-PFOA	970340.85	1250.00		N/A	N/A	✓

Sample Name	G1658-FS-D(7)	Injection Vial	26
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:59:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1496738.48	1106.96	5462.9	False	13C2-PFDA	1241017.50	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	190684.44	1164.99	1359.1	False	13C4-PFOS	229748.18	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	184237.42	1179.39	1146.4	False	13C4-PFOS	229748.18	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1312244.24	964.59	3574.5	False	13C2-PFOA	1071243.96	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1292925.08	963.45	5107.5	False	13C2-PFOA	1071243.96	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1602216.27	919.41	4009.0	False	13C2-PFOA	1071243.96	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1561223.81	1206.83	6545.0	False	13C4-PFOS	229748.18	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1363379.58	1142.63	25609.7	False	13C2-PFDA	1241017.50	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1316611.19	1217.54	3710.9	False	13C2-PFDA	1241017.50	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1285889.11	1108.49	4837.8	False	13C2-PFDA	1241017.50	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	270311.53	1045.96	4303.2	False	13C4-PFOS	229748.18	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	248652.87	1191.62	3127.0	False	13C4-PFOS	229748.18	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	226959.42	1138.18	1224.1	False	13C4-PFOS	229748.18	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	459774.78	804.61	5696.7	False	13C2-PFOA	1071243.96	1250.00		N/A	N/A	✓

Sample Name	G1668-FS(0)	Injection Vial	27
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:10:24 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	498740.23	500.53	2859.7	False	13C2-PFDA	914551.51	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	100234.48	1444.64	608.8	False	13C4-PFOS	97390.04	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	73932.01	1116.48	822.7	False	13C4-PFOS	97390.04	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	324585.11	396.65	528.8	False	13C2-PFOA	644369.20	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	354685.03	439.39	914.5	False	13C2-PFOA	644369.20	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	656709.53	626.49	1017.2	False	13C2-PFOA	644369.20	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	379385.11	691.83	1108.7	False	13C4-PFOS	97390.04	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	694767.17	790.13	2452.4	False	13C2-PFDA	914551.51	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	524731.17	658.46	3323.1	False	13C2-PFDA	914551.51	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	236175.93	276.27	4505.9	False	13C2-PFDA	914551.51	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	101348.89	925.14	1175.9	False	13C4-PFOS	97390.04	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	109176.33	1234.27	519.9	False	13C4-PFOS	97390.04	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	76475.79	904.74	292.4	False	13C4-PFOS	97390.04	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	231591.51	673.78	888.2	False	13C2-PFOA	644369.20	1250.00		N/A	N/A	✓

Sample Name	G1668-FS-D(3)	Injection Vial	28
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:20:52 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	1317620.72	894.21	5293.2	False	13C2-PFDA	1352422.53	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	195268.49	1359.22	1200.2	False	13C4-PFOS	201650.13	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	184843.02	1348.15	1366.2	False	13C4-PFOS	201650.13	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	862972.25	668.97	1343.0	False	13C2-PFOA	1015786.75	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	967505.90	760.32	1981.7	False	13C2-PFOA	1015786.75	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1380591.49	835.49	2704.9	False	13C2-PFOA	1015786.75	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1200905.47	1057.65	2979.1	False	13C4-PFOS	201650.13	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1309035.69	1006.71	26548.3	False	13C2-PFDA	1352422.53	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1156703.68	981.55	4455.5	False	13C2-PFDA	1352422.53	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1188067.73	939.80	4878.3	False	13C2-PFDA	1352422.53	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	220717.30	973.06	2880.7	False	13C4-PFOS	201650.13	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	203212.63	1109.56	1333.5	False	13C4-PFOS	201650.13	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	177081.32	1011.79	619.6	False	13C4-PFOS	201650.13	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	377053.04	695.87	1464.6	False	13C2-PFOA	1015786.75	1250.00		N/A	N/A	✓

Sample Name	G1661-FS(0)	Injection Vial	32
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:02:44 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	485445.84	536.85	3252.9	False	13C2-PFDA	829947.88	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	112055.72	2710.63	709.1	False	13C4-PFOS	58025.88	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	87605.37	2220.45	791.7	False	13C4-PFOS	58025.88	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	347289.76	484.50	529.4	False	13C2-PFOA	564435.29	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	257465.70	364.12	677.0	False	13C2-PFOA	564435.29	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	555644.71	605.15	1274.4	False	13C2-PFOA	564435.29	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	260597.56	797.59	959.6	False	13C4-PFOS	58025.88	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	692432.34	867.75	2451.1	False	13C2-PFDA	829947.88	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	598905.78	828.15	4321.1	False	13C2-PFDA	829947.88	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	58673.02	75.63	2830.7	False	13C2-PFDA	829947.88	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	118371.15	1813.54	1322.8	False	13C4-PFOS	58025.88	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	67767.11	1285.86	351.4	False	13C4-PFOS	58025.88	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	46573.04	924.76	191.7	False	13C4-PFOS	58025.88	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	307866.10	1022.53	751.2	False	13C2-PFOA	564435.29	1250.00		N/A	N/A	✓

Sample Name	G1661-FS-D(3)	Injection Vial	33
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:13:11 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1283917.45	924.77	4224.8	False	13C2-PFDA	1274282.74	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	187686.56	1650.96	1473.7	False	13C4-PFOS	159570.78	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	169558.25	1562.78	1571.0	False	13C4-PFOS	159570.78	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	916403.85	715.22	1509.0	False	13C2-PFOA	1008937.38	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	792557.66	627.06	2030.7	False	13C2-PFOA	1008937.38	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1325824.05	807.79	3094.4	False	13C2-PFOA	1008937.38	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	868131.83	966.19	2231.3	False	13C4-PFOS	159570.78	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1304004.53	1064.34	6356.2	False	13C2-PFDA	1274282.74	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1121775.10	1010.28	6673.2	False	13C2-PFDA	1274282.74	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1125423.73	944.84	4845.9	False	13C2-PFDA	1274282.74	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	234345.17	1305.58	2915.0	False	13C4-PFOS	159570.78	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	187358.31	1292.76	979.0	False	13C4-PFOS	159570.78	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	154825.25	1117.90	985.3	False	13C4-PFOS	159570.78	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	438268.09	814.34	1641.7	False	13C2-PFOA	1008937.38	1250.00		N/A	N/A	✓

Sample Name	G1661-FS-D(5)	Injection Vial	34
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:23:40 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1515673.78	1067.28	4878.2	False	13C2-PFDA	1303439.33	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	204654.90	1352.56	1224.0	False	13C4-PFOS	212384.31	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	205366.44	1422.13	1436.7	False	13C4-PFOS	212384.31	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1330365.04	936.07	2769.9	False	13C2-PFOA	1119127.91	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1317605.02	939.83	5115.8	False	13C2-PFOA	1119127.91	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1590767.12	873.78	6034.0	False	13C2-PFOA	1119127.91	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1414621.61	1182.90	115314.7	False	13C4-PFOS	212384.31	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1439850.50	1148.93	7215.3	False	13C2-PFDA	1303439.33	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1318297.50	1160.71	5103.9	False	13C2-PFDA	1303439.33	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1305150.43	1071.21	4052.3	False	13C2-PFDA	1303439.33	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	294548.12	1232.92	5659.8	False	13C4-PFOS	212384.31	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	236075.48	1223.84	3251.6	False	13C4-PFOS	212384.31	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	227050.38	1231.73	1259.5	False	13C4-PFOS	212384.31	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	457423.64	766.24	2757.1	False	13C2-PFOA	1119127.91	1250.00		N/A	N/A	✓

Sample Name	G1661-FS-D(7)	Injection Vial	35
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:34:08 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1551263.12	1074.97	4272.3	False	13C2-PFDA	1324502.91	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	208362.76	1209.44	1160.9	False	13C4-PFOS	241820.58	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	208821.17	1270.03	1353.4	False	13C4-PFOS	241820.58	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1399021.19	1184.58	4616.5	False	13C2-PFOA	929985.82	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1315811.75	1129.44	19234.6	False	13C2-PFOA	929985.82	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1853049.50	1224.86	7135.6	False	13C2-PFOA	929985.82	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1549489.46	1137.96	3302.8	False	13C4-PFOS	241820.58	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1337379.00	1050.19	9918.1	False	13C2-PFDA	1324502.91	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1359654.60	1178.09	4099.6	False	13C2-PFDA	1324502.91	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1356774.97	1095.87	5031.8	False	13C2-PFDA	1324502.91	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	288208.63	1059.54	4514.5	False	13C4-PFOS	241820.58	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	263126.98	1198.04	2477.1	False	13C4-PFOS	241820.58	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	237565.78	1131.90	1996.6	False	13C4-PFOS	241820.58	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	467628.92	942.66	4953.3	False	13C2-PFOA	929985.82	1250.00		N/A	N/A	✓

Sample Name	G1663-FS(0)	Injection Vial	36
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:44:38 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	736690.68	767.08	3377.3	False	13C2-PFDA	881468.26	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	129145.65	2897.00	854.5	False	13C4-PFOS	62573.20	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	116444.35	2736.92	874.9	False	13C4-PFOS	62573.20	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	359901.18	499.21	592.1	False	13C2-PFOA	567690.55	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	251481.08	353.62	772.0	False	13C2-PFOA	567690.55	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	589841.00	638.71	1394.9	False	13C2-PFOA	567690.55	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	297065.82	843.13	1144.7	False	13C4-PFOS	62573.20	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	803717.71	948.34	3780.3	False	13C2-PFDA	881468.26	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	757735.42	986.54	3204.0	False	13C2-PFDA	881468.26	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	371064.02	450.35	4505.0	False	13C2-PFDA	881468.26	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	129921.21	1845.84	985.8	False	13C4-PFOS	62573.20	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	66643.72	1172.65	422.6	False	13C4-PFOS	62573.20	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	60781.53	1119.18	286.3	False	13C4-PFOS	62573.20	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	295699.15	976.49	635.7	False	13C2-PFOA	567690.55	1250.00		N/A	N/A	✓

Sample Name	G1663-FS-D(3)	Injection Vial	37
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:55:08 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1335566.58	1027.72	6607.4	False	13C2-PFDA	1192762.07	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	176178.11	1574.74	1565.1	False	13C4-PFOS	157036.10	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	168116.23	1574.50	1443.6	False	13C4-PFOS	157036.10	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	909619.06	722.15	1796.5	False	13C2-PFOA	991851.54	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	805821.15	648.54	1748.2	False	13C2-PFOA	991851.54	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1246431.02	772.50	2228.3	False	13C2-PFOA	991851.54	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	885110.21	1000.99	3427.1	False	13C4-PFOS	157036.10	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1233932.20	1075.98	12910.3	False	13C2-PFDA	1192762.07	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1157999.05	1114.18	5199.5	False	13C2-PFDA	1192762.07	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1160880.42	1041.21	4673.6	False	13C2-PFDA	1192762.07	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	230197.84	1303.18	2379.7	False	13C4-PFOS	157036.10	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	164525.94	1153.54	938.5	False	13C4-PFOS	157036.10	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	138442.90	1015.75	1112.6	False	13C4-PFOS	157036.10	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	394096.61	744.88	1548.7	False	13C2-PFOA	991851.54	1250.00		N/A	N/A	✓

Sample Name	G1663-FS-D(5)	Injection Vial	38
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:05:38 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1449088.87	1082.99	5199.3	False	13C2-PFDA	1228102.26	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	195906.64	1461.64	1632.1	False	13C4-PFOS	188133.13	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	206380.17	1613.37	1354.1	False	13C4-PFOS	188133.13	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1227053.00	907.46	3017.0	False	13C2-PFOA	1064755.02	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1187209.19	890.07	4981.4	False	13C2-PFOA	1064755.02	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1533016.52	885.06	6545.9	False	13C2-PFOA	1064755.02	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1249975.70	1179.96	7434.8	False	13C4-PFOS	188133.13	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1395748.97	1182.06	9603.5	False	13C2-PFDA	1228102.26	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1315665.18	1229.46	4031.1	False	13C2-PFDA	1228102.26	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1283476.18	1118.04	4065.6	False	13C2-PFDA	1228102.26	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	289744.54	1369.15	3487.1	False	13C4-PFOS	188133.13	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	214825.15	1257.24	2896.5	False	13C4-PFOS	188133.13	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	184339.54	1128.94	1281.1	False	13C4-PFOS	188133.13	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	452802.86	797.24	2753.9	False	13C2-PFOA	1064755.02	1250.00		N/A	N/A	✓

Sample Name	G1663-FS-D(7)	Injection Vial	39
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:16:05 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1440629.59	1036.21	7379.5	False	13C2-PFDA	1276051.70	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	196001.36	1195.49	1534.5	False	13C4-PFOS	230127.89	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	214336.95	1369.81	1392.9	False	13C4-PFOS	230127.89	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1370618.46	1108.21	3319.4	False	13C2-PFOA	973892.98	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1277750.77	1047.32	9700.0	False	13C2-PFOA	973892.98	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1644848.58	1038.23	18484.3	False	13C2-PFOA	973892.98	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1456182.93	1123.77	9549.9	False	13C4-PFOS	230127.89	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1414240.66	1152.71	6813.2	False	13C2-PFDA	1276051.70	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1303246.16	1172.09	4706.6	False	13C2-PFDA	1276051.70	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1350346.05	1132.09	3555.1	False	13C2-PFDA	1276051.70	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	282214.87	1090.22	4731.8	False	13C4-PFOS	230127.89	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	242589.55	1160.65	1871.1	False	13C4-PFOS	230127.89	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	218135.77	1092.13	1223.3	False	13C4-PFOS	230127.89	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	448677.94	863.68	3550.4	False	13C2-PFOA	973892.98	1250.00		N/A	N/A	✓



Sample Name	G1664-FS(0)	Injection Vial	42
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:47:28 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	761714.40	764.30	3196.7	False	13C2-PFDA	914729.08	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	135162.69	3217.77	981.1	False	13C4-PFOS	58960.21	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	106564.46	2658.19	790.0	False	13C4-PFOS	58960.21	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	354546.67	529.57	544.6	False	13C2-PFOA	527185.79	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	258661.74	391.66	595.2	False	13C2-PFOA	527185.79	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	503093.54	586.63	1177.6	False	13C2-PFOA	527185.79	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	259577.00	781.88	1123.3	False	13C4-PFOS	58960.21	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	800047.96	909.68	5452.0	False	13C2-PFDA	914729.08	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	766826.06	962.07	2804.2	False	13C2-PFDA	914729.08	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	268229.29	313.70	4453.9	False	13C2-PFDA	914729.08	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	124642.36	1879.36	1069.1	False	13C4-PFOS	58960.21	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	62732.51	1171.47	293.4	False	13C4-PFOS	58960.21	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	45226.60	883.79	256.6	False	13C4-PFOS	58960.21	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	304560.43	1083.02	737.3	False	13C2-PFOA	527185.79	1250.00		N/A	N/A	✓

Sample Name	G1664-FS-D(3)	Injection Vial	43
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:57:57 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.57	1337703.78	993.01	4732.5	False	13C2-PFDA	1236434.80	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.10	158015.84	1620.45	1012.6	False	13C4-PFOS	136874.67	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.26	170502.55	1832.06	1077.7	False	13C4-PFOS	136874.67	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	847874.25	719.21	1277.3	False	13C2-PFOA	928304.88	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	755369.89	649.55	1425.9	False	13C2-PFOA	928304.88	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1352584.05	895.68	3675.4	False	13C2-PFOA	928304.88	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	791600.02	1027.10	2302.0	False	13C4-PFOS	136874.67	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.95	1243057.81	1045.65	5833.6	False	13C2-PFDA	1236434.80	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	1125524.30	1044.69	3506.7	False	13C2-PFDA	1236434.80	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.03	1157654.07	1001.64	4181.3	False	13C2-PFDA	1236434.80	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	231306.48	1502.34	2570.2	False	13C4-PFOS	136874.67	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	169803.34	1365.91	782.1	False	13C4-PFOS	136874.67	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.60	129914.40	1093.58	691.6	False	13C4-PFOS	136874.67	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	392168.69	791.97	1396.7	False	13C2-PFOA	928304.88	1250.00		N/A	N/A	✓

Sample Name	G1664-FS-D(5)	Injection Vial	44
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:08:26 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	1424989.36	1064.87	6117.5	False	13C2-PFDA	1228225.93	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	185370.91	1386.46	1467.4	False	13C4-PFOS	187668.46	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	188743.36	1479.15	1984.0	False	13C4-PFOS	187668.46	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1207778.30	988.37	2094.4	False	13C2-PFOA	962241.27	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1031296.54	855.55	3418.8	False	13C2-PFOA	962241.27	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1524926.31	974.19	3244.9	False	13C2-PFOA	962241.27	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1160373.54	1098.09	4899.8	False	13C4-PFOS	187668.46	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1321606.61	1119.15	4377.9	False	13C2-PFDA	1228225.93	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1242803.39	1161.25	5189.0	False	13C2-PFDA	1228225.93	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1252295.11	1090.77	4691.3	False	13C2-PFDA	1228225.93	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	265785.36	1259.05	3210.7	False	13C4-PFOS	187668.46	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	214980.03	1261.26	1512.8	False	13C4-PFOS	187668.46	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	168295.13	1033.23	1039.6	False	13C4-PFOS	187668.46	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	428468.85	834.76	1715.6	False	13C2-PFOA	962241.27	1250.00		N/A	N/A	✓

Sample Name	G1664-FS-D(7)	Injection Vial	45
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:18:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	1509415.13	1086.58	6246.8	False	13C2-PFDA	1274995.16	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	202400.22	1141.74	1151.2	False	13C4-PFOS	248829.53	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	187135.92	1106.08	1267.7	False	13C4-PFOS	248829.53	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1317606.76	1033.04	5258.1	False	13C2-PFOA	1004344.34	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1241131.39	986.46	9956.2	False	13C2-PFOA	1004344.34	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1645431.22	1007.10	6120.4	False	13C2-PFOA	1004344.34	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1514367.96	1080.84	4917.3	False	13C4-PFOS	248829.53	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1441696.16	1176.06	33882.9	False	13C2-PFDA	1274995.16	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1329221.55	1196.44	4409.9	False	13C2-PFDA	1274995.16	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1363931.46	1144.43	4110.5	False	13C2-PFDA	1274995.16	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	262665.23	938.43	5479.4	False	13C4-PFOS	248829.53	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	237632.94	1051.48	2088.6	False	13C4-PFOS	248829.53	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	238636.20	1104.97	1488.7	False	13C4-PFOS	248829.53	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	475801.70	888.12	3863.6	False	13C2-PFOA	1004344.34	1250.00		N/A	N/A	✓

Sample Name	G1665-FS(0)	Injection Vial	46
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:29:25 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	920026.15	970.13	6357.1	False	13C2-PFDA	870427.13	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	137047.66	3363.28	964.8	False	13C4-PFOS	57196.00	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	106756.50	2745.12	1034.4	False	13C4-PFOS	57196.00	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	371424.14	542.06	832.0	False	13C2-PFOA	539558.27	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	266953.42	394.95	680.4	False	13C2-PFOA	539558.27	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	612961.25	698.35	1442.2	False	13C2-PFOA	539558.27	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	296262.26	919.90	882.9	False	13C4-PFOS	57196.00	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	833402.63	995.84	3105.2	False	13C2-PFDA	870427.13	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	800794.88	1055.82	4258.7	False	13C2-PFDA	870427.13	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	533294.14	655.45	4810.5	False	13C2-PFDA	870427.13	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	115618.47	1797.07	1672.2	False	13C4-PFOS	57196.00	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	69596.67	1339.74	374.8	False	13C4-PFOS	57196.00	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	54696.50	1101.82	221.8	False	13C4-PFOS	57196.00	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	285719.90	992.73	980.6	False	13C2-PFOA	539558.27	1250.00		N/A	N/A	✓

Sample Name	G1665-FS-D(3)	Injection Vial	47
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:39:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.55	1436635.24	1037.46	4756.7	False	13C2-PFDA	1270981.80	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.09	172466.37	1531.63	1527.8	False	13C4-PFOS	158055.43	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.25	164457.55	1530.30	1142.1	False	13C4-PFOS	158055.43	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	878591.21	672.31	1674.8	False	13C2-PFOA	1029046.76	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.87	803670.96	623.43	1637.2	False	13C2-PFOA	1029046.76	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.23	1325739.30	791.95	2349.1	False	13C2-PFOA	1029046.76	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.60	843039.28	947.26	2434.2	False	13C4-PFOS	158055.43	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.94	1298104.08	1062.27	12004.5	False	13C2-PFDA	1270981.80	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.26	1158105.35	1045.71	4128.5	False	13C2-PFDA	1270981.80	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.01	1213150.98	1021.13	3492.6	False	13C2-PFDA	1270981.80	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	228868.77	1287.30	2579.0	False	13C4-PFOS	158055.43	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	172459.86	1201.37	1362.1	False	13C4-PFOS	158055.43	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.59	131163.54	956.14	747.6	False	13C4-PFOS	158055.43	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	409439.12	745.90	1527.8	False	13C2-PFOA	1029046.76	1250.00		N/A	N/A	✓

Sample Name	G1665-FS-D(7)	Injection Vial	49
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:00:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	1540685.92	1035.09	7616.6	False	13C2-PFDA	1366157.02	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	174624.11	1093.73	1210.5	False	13C4-PFOS	224105.31	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	216395.59	1420.13	1347.3	False	13C4-PFOS	224105.31	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1326441.03	975.09	3848.9	False	13C2-PFOA	1071171.12	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1207804.13	900.08	3309.7	False	13C2-PFOA	1071171.12	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1714800.18	984.08	8969.5	False	13C2-PFOA	1071171.12	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1465231.66	1161.14	3851127.4	False	13C4-PFOS	224105.31	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1461113.89	1112.37	6975.2	False	13C2-PFDA	1366157.02	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1305743.83	1096.88	4701.4	False	13C2-PFDA	1366157.02	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1321418.48	1034.77	4501.8	False	13C2-PFDA	1366157.02	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	287766.46	1141.54	5517.5	False	13C4-PFOS	224105.31	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	242669.33	1192.23	4589.4	False	13C4-PFOS	224105.31	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	217864.80	1120.09	1448.0	False	13C4-PFOS	224105.31	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	444600.76	778.11	4770.3	False	13C2-PFOA	1071171.12	1250.00		N/A	N/A	✓

Sample Name	G1666MS-FS(0)	Injection Vial	52
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:32:35 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	724156.52	734.59	4117.4	False	13C2-PFDA	904797.25	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	115978.69	2045.81	909.2	False	13C4-PFOS	79573.99	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	100786.18	1862.78	1056.6	False	13C4-PFOS	79573.99	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	374374.28	488.70	669.3	False	13C2-PFOA	603225.07	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	269667.75	356.86	725.6	False	13C2-PFOA	603225.07	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	632707.49	644.76	1405.4	False	13C2-PFOA	603225.07	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	298353.92	665.87	1024.7	False	13C4-PFOS	79573.99	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	800127.77	919.76	3596.4	False	13C2-PFDA	904797.25	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	675640.13	856.97	3536.7	False	13C2-PFDA	904797.25	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	170146.09	201.18	3667.8	False	13C2-PFDA	904797.25	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	124174.97	1387.28	1252.9	False	13C4-PFOS	79573.99	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	71723.00	992.40	359.3	False	13C4-PFOS	79573.99	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	56623.07	819.86	304.5	False	13C4-PFOS	79573.99	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	303756.51	944.01	783.1	False	13C2-PFOA	603225.07	1250.00		N/A	N/A	✓

Sample Name	G1666MS-FS-D(3)	Injection Vial	53
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:43:04 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	1309159.96	999.76	5608.5	False	13C2-PFDA	1201875.21	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	165112.33	1581.73	1200.3	False	13C4-PFOS	146523.03	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	168191.87	1688.23	954.8	False	13C4-PFOS	146523.03	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	859684.59	642.45	1733.3	False	13C2-PFOA	1053698.66	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	847558.36	642.09	2842.9	False	13C2-PFOA	1053698.66	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1298796.17	757.71	3023.0	False	13C2-PFOA	1053698.66	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	809099.40	980.68	2067.7	False	13C4-PFOS	146523.03	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1227382.08	1062.15	4706.3	False	13C2-PFDA	1201875.21	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1097799.31	1048.25	5228.9	False	13C2-PFDA	1201875.21	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1142755.73	1017.19	4163.1	False	13C2-PFDA	1201875.21	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	229496.91	1392.43	2376.5	False	13C4-PFOS	146523.03	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	166961.65	1254.61	936.4	False	13C4-PFOS	146523.03	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	135736.97	1067.35	1045.7	False	13C4-PFOS	146523.03	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	378420.65	673.27	1877.1	False	13C2-PFOA	1053698.66	1250.00		N/A	N/A	✓



Sample Name	G1666MS-FS-D(7)	Injection Vial	1
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:04:01 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.59	1444413.71	1070.50	5818.9	False	13C2-PFDA	1238424.18	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	194029.03	1116.67	1047.7	False	13C4-PFOS	243892.94	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	199327.17	1201.99	1889.1	False	13C4-PFOS	243892.94	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1347100.29	993.33	4296.1	False	13C2-PFOA	1067877.25	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1217843.03	910.36	6756.0	False	13C2-PFOA	1067877.25	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1599419.43	920.70	6876.0	False	13C2-PFOA	1067877.25	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1473475.26	1072.94	6961.7	False	13C4-PFOS	243892.94	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1364359.85	1145.84	7207.3	False	13C2-PFDA	1238424.18	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1231047.72	1140.80	4389.2	False	13C2-PFDA	1238424.18	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1275458.64	1101.80	4137.7	False	13C2-PFDA	1238424.18	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	264183.66	962.96	7858.0	False	13C4-PFOS	243892.94	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	232399.09	1049.14	2452.2	False	13C4-PFOS	243892.94	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	232924.26	1100.35	1468.3	False	13C4-PFOS	243892.94	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	442070.49	776.07	3702.0	False	13C2-PFOA	1067877.25	1250.00		N/A	N/A	✓

Sample Name	G1667MSD-FS(0)	Injection Vial	2
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:14:30 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.58	366269.24	398.64	3342.0	False	13C2-PFDA	843303.50	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	87473.63	1893.08	1181.9	False	13C4-PFOS	64858.28	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	65088.31	1475.94	591.8	False	13C4-PFOS	64858.28	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	345300.79	479.17	895.2	False	13C2-PFOA	567439.16	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	264185.24	371.65	967.3	False	13C2-PFOA	567439.16	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	579244.61	627.51	1410.2	False	13C2-PFOA	567439.16	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	310753.18	850.91	1617.6	False	13C4-PFOS	64858.28	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	687226.83	847.58	3086.2	False	13C2-PFDA	843303.50	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	481540.63	655.32	3001.6	False	13C2-PFDA	843303.50	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	42459.31	53.86	2677.0	False	13C2-PFDA	843303.50	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	107266.49	1470.28	1184.8	False	13C4-PFOS	64858.28	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	76470.26	1298.15	416.4	False	13C4-PFOS	64858.28	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.60	56883.65	1010.50	260.4	False	13C4-PFOS	64858.28	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	288970.04	954.69	675.6	False	13C2-PFOA	567439.16	1250.00		N/A	N/A	✓

Sample Name	G1667MSD-FS-D(3)	Injection Vial	3
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:24:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	1222329.95	971.75	5211.4	False	13C2-PFDA	1154510.80	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	158508.86	1329.53	1288.0	False	13C4-PFOS	167344.57	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	162238.11	1425.85	1243.4	False	13C4-PFOS	167344.57	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	890442.31	748.05	1912.6	False	13C2-PFOA	937329.07	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	792553.85	674.96	2092.9	False	13C2-PFOA	937329.07	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1289068.77	845.40	3387.9	False	13C2-PFOA	937329.07	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	896689.34	951.62	2864.9	False	13C4-PFOS	167344.57	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1150163.41	1036.16	5561.5	False	13C2-PFDA	1154510.80	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1039479.67	1033.29	4251.3	False	13C2-PFDA	1154510.80	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1042180.98	965.72	4389.3	False	13C2-PFDA	1154510.80	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	230297.17	1223.43	2909.8	False	13C4-PFOS	167344.57	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	178555.55	1174.79	1362.1	False	13C4-PFOS	167344.57	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	129795.40	893.64	698.3	False	13C4-PFOS	167344.57	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	385923.32	771.86	1870.6	False	13C2-PFOA	937329.07	1250.00		N/A	N/A	✓

Sample Name	G1667MSD-FS-D(7)	Injection Vial	5
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:45:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	1586769.13	1137.89	5566.5	False	13C2-PFDA	1279904.53	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	198127.44	1100.15	1789.2	False	13C4-PFOS	252784.58	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	203968.35	1186.71	1157.7	False	13C4-PFOS	252784.58	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1418452.34	1041.84	4168.5	False	13C2-PFOA	1072088.52	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1342305.82	999.46	7779.6	False	13C2-PFOA	1072088.52	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1827575.90	1047.90	3652.3	False	13C2-PFOA	1072088.52	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1613633.48	1133.67	11141.7	False	13C4-PFOS	252784.58	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1554890.45	1263.54	5719.7	False	13C2-PFDA	1279904.53	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1344617.12	1205.66	5000.5	False	13C2-PFDA	1279904.53	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1379392.45	1152.97	4062.0	False	13C2-PFDA	1279904.53	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	299654.78	1053.84	5020.1	False	13C4-PFOS	252784.58	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	246169.55	1072.21	2245.3	False	13C4-PFOS	252784.58	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	246138.69	1121.88	1619.1	False	13C4-PFOS	252784.58	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	512563.95	896.28	5107.9	False	13C2-PFOA	1072088.52	1250.00		N/A	N/A	✓

Sample Name	LD80 IB	Injection Vial	4
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:38:38 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.63	1344341.56	1234.04	6687.4	False	13C2-PFDA	999867.40	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.15	173254.75	1312.03	1448.3	False	13C4-PFOS	185352.71	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.32	159510.58	1265.68	1622.0	False	13C4-PFOS	185352.71	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.58	1130175.72	1318.29	15007.5	False	13C2-PFOA	675070.20	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.91	1150612.47	1360.58	15908.5	False	13C2-PFOA	675070.20	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1404975.06	1279.37	1873.4	False	13C2-PFOA	675070.20	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.65	1303268.88	1248.72	49827.5	False	13C4-PFOS	185352.71	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	1164809.24	1211.65	967.7	False	13C2-PFDA	999867.40	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.33	1059196.80	1215.73	4731.3	False	13C2-PFDA	999867.40	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.13	1145697.32	1225.84	3946.2	False	13C2-PFDA	999867.40	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	228045.78	1093.77	6487.6	False	13C4-PFOS	185352.71	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	229027.01	1360.46	7717.8	False	13C4-PFOS	185352.71	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.65	197290.14	1226.37	1458.8	False	13C4-PFOS	185352.71	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	433433.47	1203.65	5667.4	False	13C2-PFOA	675070.20	1250.00		N/A	N/A	✓

Sample Name	G1645-FS-D(7)	Injection Vial	8
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:20:27 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	1410872.49	1053.82	6118.6	False	13C2-PFDA	1228811.03	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.15	171519.99	1037.67	1422.7	False	13C4-PFOS	232013.86	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	187407.07	1187.97	1462.0	False	13C4-PFOS	232013.86	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1223166.58	1013.90	4521.6	False	13C2-PFOA	949964.83	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.91	1184093.81	995.00	6196.0	False	13C2-PFOA	949964.83	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1478170.25	956.52	4570.2	False	13C2-PFOA	949964.83	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.65	1447225.18	1107.78	5718.9	False	13C4-PFOS	232013.86	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	1366995.17	1157.04	11046.0	False	13C2-PFDA	1228811.03	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1183930.09	1105.72	5459.9	False	13C2-PFDA	1228811.03	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	1219280.88	1061.51	3907.1	False	13C2-PFDA	1228811.03	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	266035.94	1019.36	5811.7	False	13C4-PFOS	232013.86	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	232662.71	1104.11	2220.1	False	13C4-PFOS	232013.86	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	236010.87	1172.02	1204.3	False	13C4-PFOS	232013.86	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	423065.04	834.89	5480.2	False	13C2-PFOA	949964.83	1250.00		N/A	N/A	✓

Sample Name	G1663-FS-D(9)	Injection Vial	18
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:05:03 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	1533900.75	1049.11	6213.1	False	13C2-PFDA	1341966.20	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	186184.86	1041.12	1630.5	False	13C4-PFOS	251014.84	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	207082.10	1213.32	1094.5	False	13C4-PFOS	251014.84	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1350150.90	1088.83	6517.0	False	13C2-PFOA	976423.85	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1254152.95	1025.31	2503098.6	False	13C2-PFOA	976423.85	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1660470.57	1045.37	36273.6	False	13C2-PFOA	976423.85	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1629898.90	1153.17	2408.4	False	13C4-PFOS	251014.84	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1490127.13	1154.91	551772.1	False	13C2-PFDA	1341966.20	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1325130.00	1133.23	4295.4	False	13C2-PFDA	1341966.20	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1393702.81	1111.05	4640.2	False	13C2-PFDA	1341966.20	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	255971.20	906.56	8061.0	False	13C4-PFOS	251014.84	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	245811.64	1078.20	31030.4	False	13C4-PFOS	251014.84	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	222336.87	1020.54	1492.5	False	13C4-PFOS	251014.84	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	467718.38	898.00	7116.3	False	13C2-PFOA	976423.85	1250.00		N/A	N/A	✓

Sample Name	G1665-FS-D(9)	Injection Vial	20
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:26:00 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	1505724.80	1059.75	7173.5	False	13C2-PFDA	1304085.21	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	196712.23	1081.45	1662.0	False	13C4-PFOS	255318.15	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	201127.55	1158.57	929.9	False	13C4-PFOS	255318.15	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1327360.09	1086.43	5149.1	False	13C2-PFOA	962062.31	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1333037.28	1106.07	9456.2	False	13C2-PFOA	962062.31	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1654022.53	1056.85	11812.4	False	13C2-PFOA	962062.31	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1648699.47	1146.81	10002.3	False	13C4-PFOS	255318.15	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1406482.74	1121.75	4567.6	False	13C2-PFDA	1304085.21	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1330074.09	1170.50	5352.1	False	13C2-PFDA	1304085.21	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1346079.90	1104.26	4683.3	False	13C2-PFDA	1304085.21	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	267430.91	931.18	5401.1	False	13C4-PFOS	255318.15	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	260805.86	1124.69	3610.1	False	13C4-PFOS	255318.15	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	234623.51	1058.78	2376.5	False	13C4-PFOS	255318.15	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	447557.05	872.11	4213.4	False	13C2-PFOA	962062.31	1250.00		N/A	N/A	✓

Sample Name	G1666MS-FS-D(9)	Injection Vial	24
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:07:53 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1519346.64	1035.80	5402.4	False	13C2-PFDA	1346301.52	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	188156.97	1064.10	1288.0	False	13C4-PFOS	248197.49	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	201711.78	1195.27	1184.4	False	13C4-PFOS	248197.49	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1362533.33	1231.80	6559.0	False	13C2-PFOA	871007.51	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1255593.34	1150.73	5110.7	False	13C2-PFOA	871007.51	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1688350.20	1191.57	18503.8	False	13C2-PFOA	871007.51	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1507396.89	1078.60	15648.5	False	13C4-PFOS	248197.49	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1498390.27	1157.57	18340.3	False	13C2-PFDA	1346301.52	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1336461.14	1139.24	4113.3	False	13C2-PFDA	1346301.52	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1322372.34	1050.79	4639.4	False	13C2-PFDA	1346301.52	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	269825.96	966.47	7785.3	False	13C4-PFOS	248197.49	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	242333.51	1075.01	34779.9	False	13C4-PFOS	248197.49	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	226926.47	1053.43	1367.4	False	13C4-PFOS	248197.49	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	465209.95	1001.28	9309.8	False	13C2-PFOA	871007.51	1250.00		N/A	N/A	✓

Sample Name	G1667MSD-FS-D(9)	Injection Vial	26
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:28:49 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1528007.92	1036.70	5115.4	False	13C2-PFDA	1352804.73	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	199667.38	1140.17	1233.5	False	13C4-PFOS	245806.93	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	195241.18	1168.18	1268.2	False	13C4-PFOS	245806.93	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1313462.62	1131.19	4192.3	False	13C2-PFOA	914321.06	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1271736.08	1110.31	4109.2	False	13C2-PFOA	914321.06	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1665875.45	1120.01	7733.8	False	13C2-PFOA	914321.06	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1518429.73	1097.06	34442.3	False	13C4-PFOS	245806.93	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1473789.37	1133.09	4586.4	False	13C2-PFDA	1352804.73	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1319775.28	1119.61	5184.5	False	13C2-PFDA	1352804.73	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1343976.00	1062.83	4535.5	False	13C2-PFDA	1352804.73	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	279627.34	1011.32	5636.2	False	13C4-PFOS	245806.93	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	233424.31	1045.56	16954.8	False	13C4-PFOS	245806.93	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	243943.21	1143.43	1266.3	False	13C4-PFOS	245806.93	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	441987.45	906.23	3075.6	False	13C2-PFOA	914321.06	1250.00		N/A	N/A	✓

Sample Name	G1668-FS-D(7)	Injection Vial	28
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:49:45 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	1543789.38	1080.22	6768.9	False	13C2-PFDA	1311708.19	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	194078.45	1071.67	1197.0	False	13C4-PFOS	254198.74	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	195365.17	1130.33	1196.6	False	13C4-PFOS	254198.74	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1225503.81	1021.17	3191.4	False	13C2-PFOA	945000.88	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1196976.40	1011.11	3956.2	False	13C2-PFOA	945000.88	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1501528.79	976.74	3507.9	False	13C2-PFOA	945000.88	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1368764.93	956.28	5391.9	False	13C4-PFOS	254198.74	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1338896.82	1061.64	7229.2	False	13C2-PFDA	1311708.19	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1239326.80	1084.30	3197.7	False	13C2-PFDA	1311708.19	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1319818.03	1076.42	4558.9	False	13C2-PFDA	1311708.19	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	264455.65	924.87	5097.1	False	13C4-PFOS	254198.74	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	217587.71	942.45	4813.4	False	13C4-PFOS	254198.74	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	225125.23	1020.39	1130.9	False	13C4-PFOS	254198.74	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	387681.94	769.08	2284.2	False	13C2-PFOA	945000.88	1250.00		N/A	N/A	✓

Chromatograms



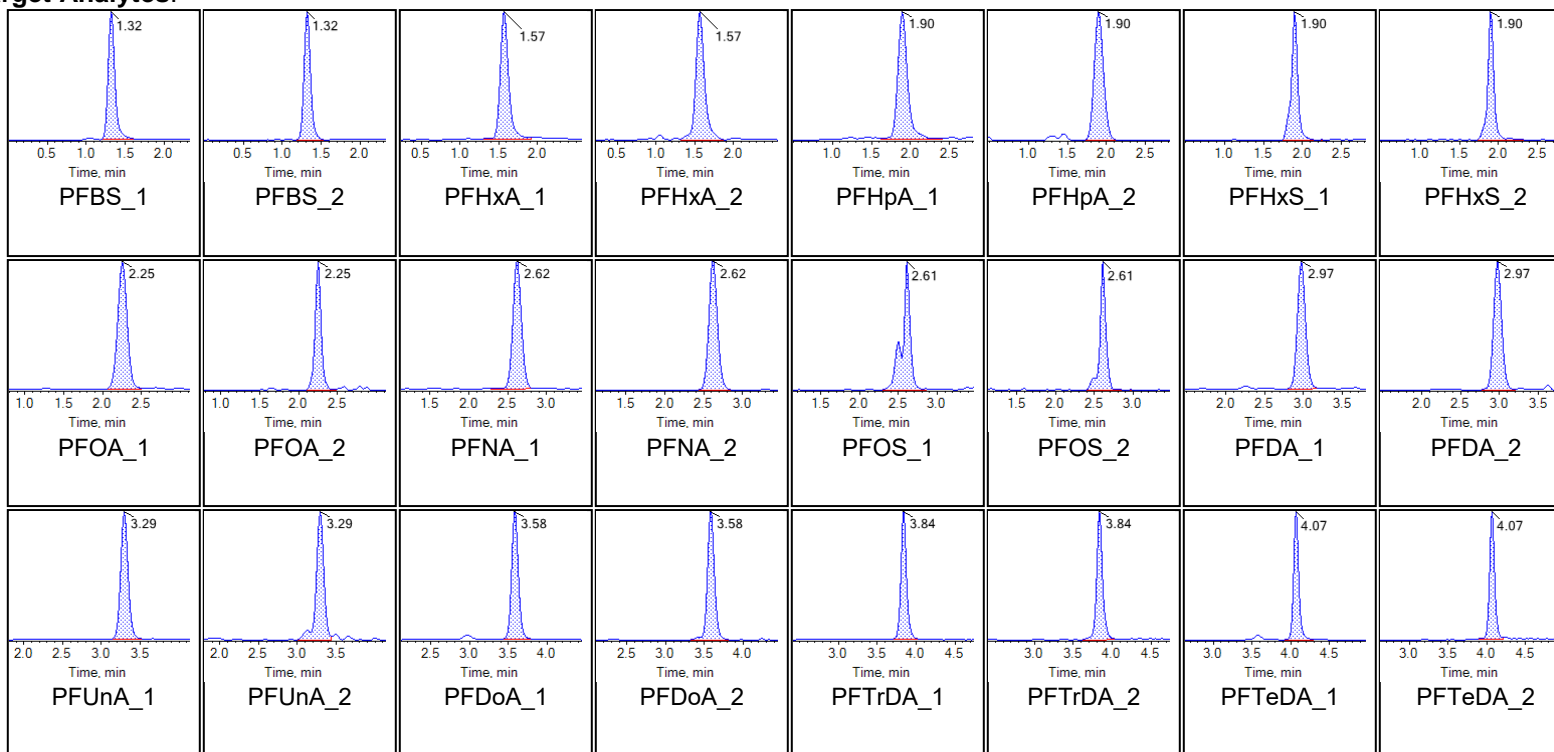
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD74	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

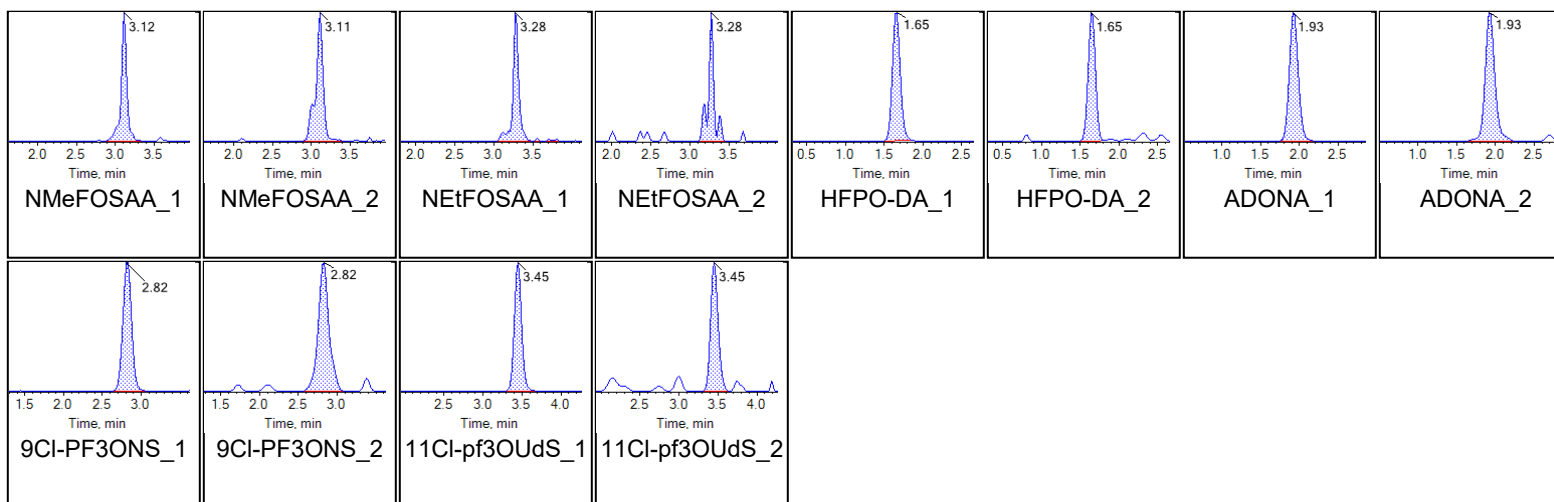
Chromatograms

Target Analytes:

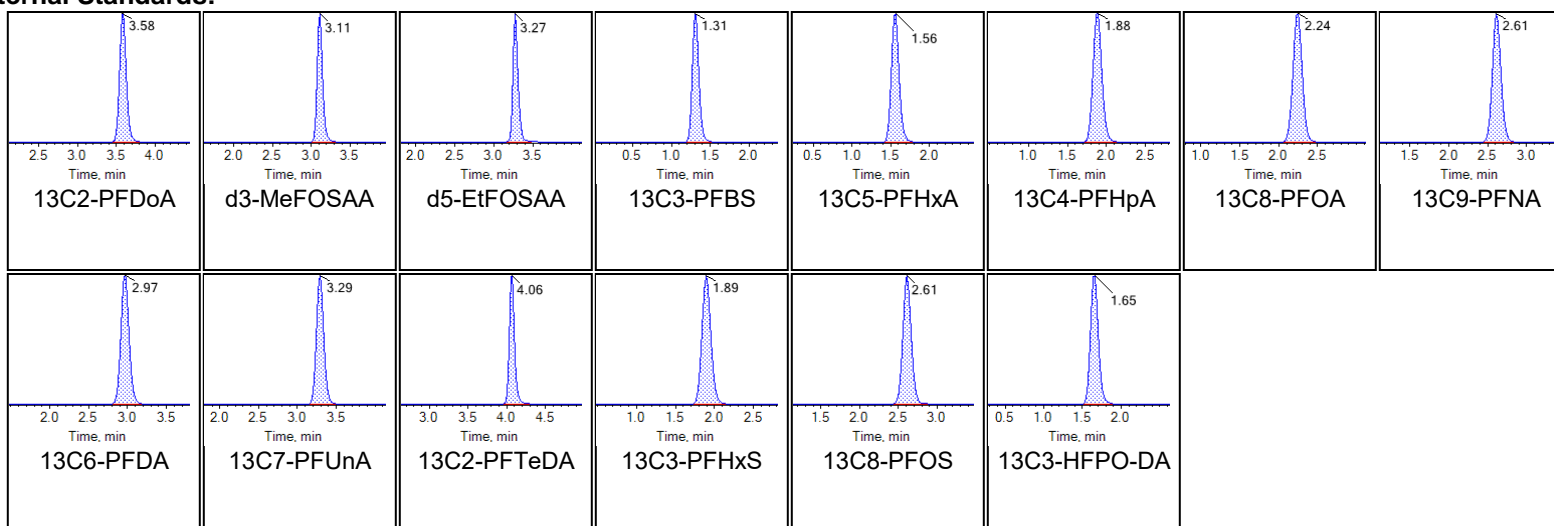




Chromatogram Report

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Internal Standards:





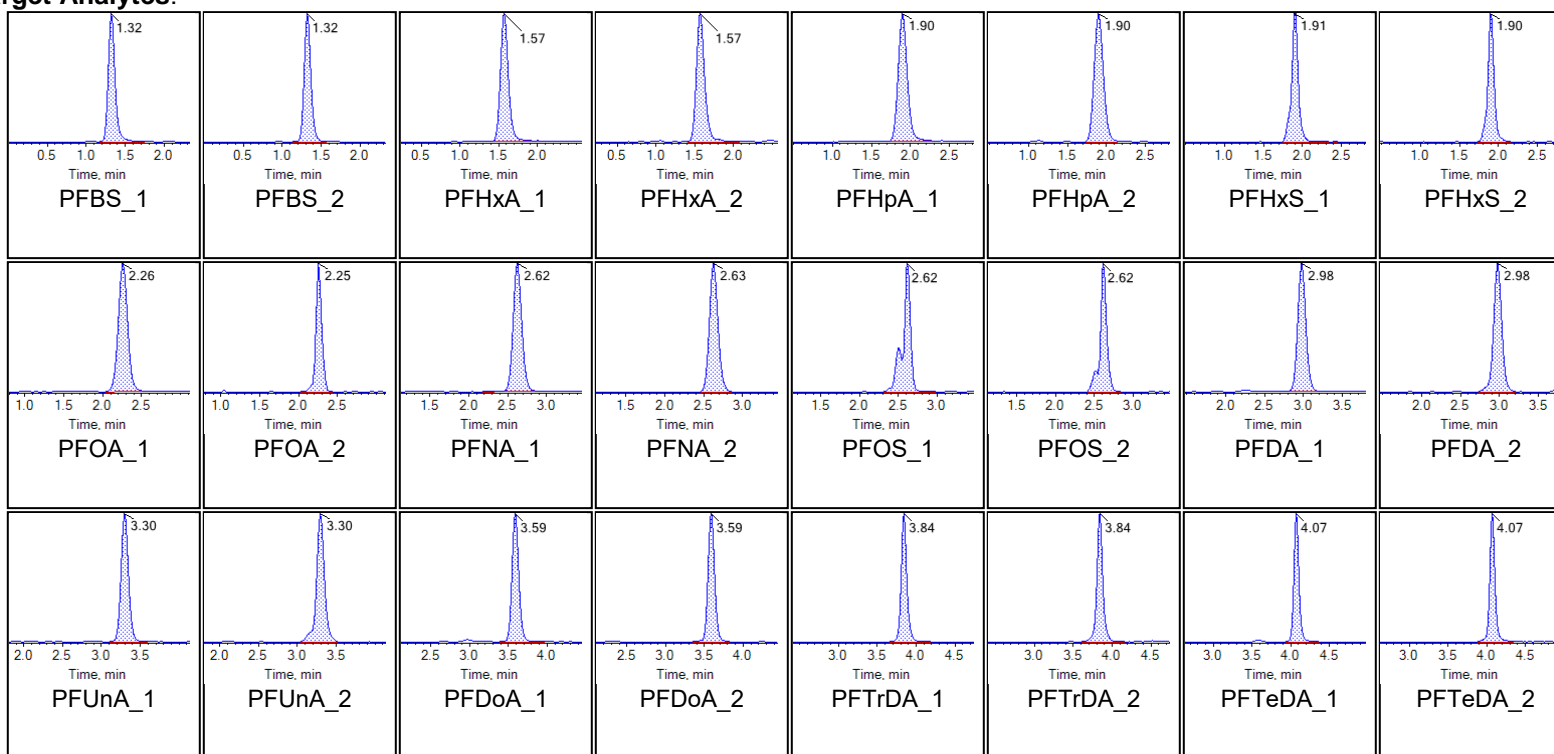
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD75	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:18:08 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

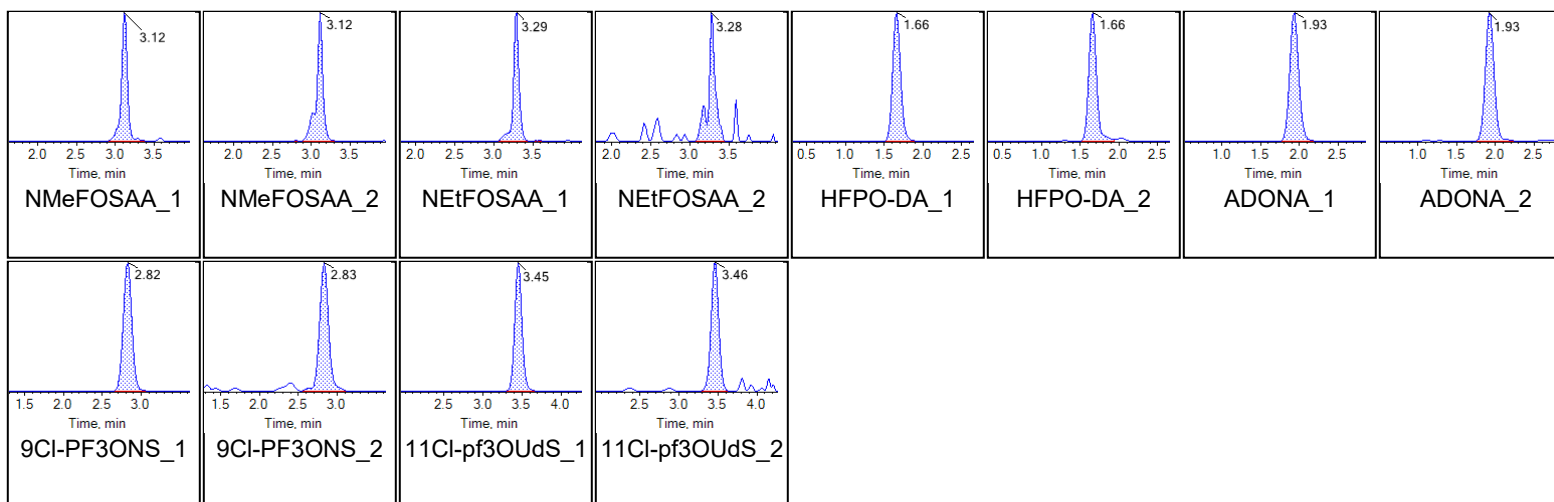
Chromatograms

Target Analytes:

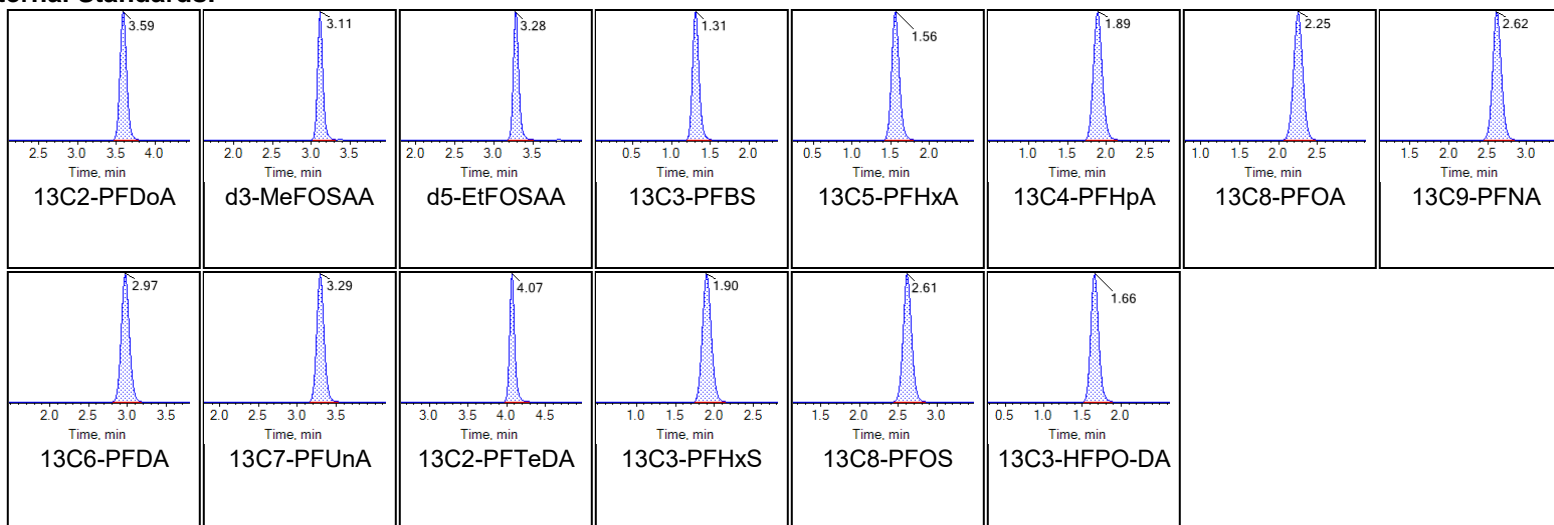




Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





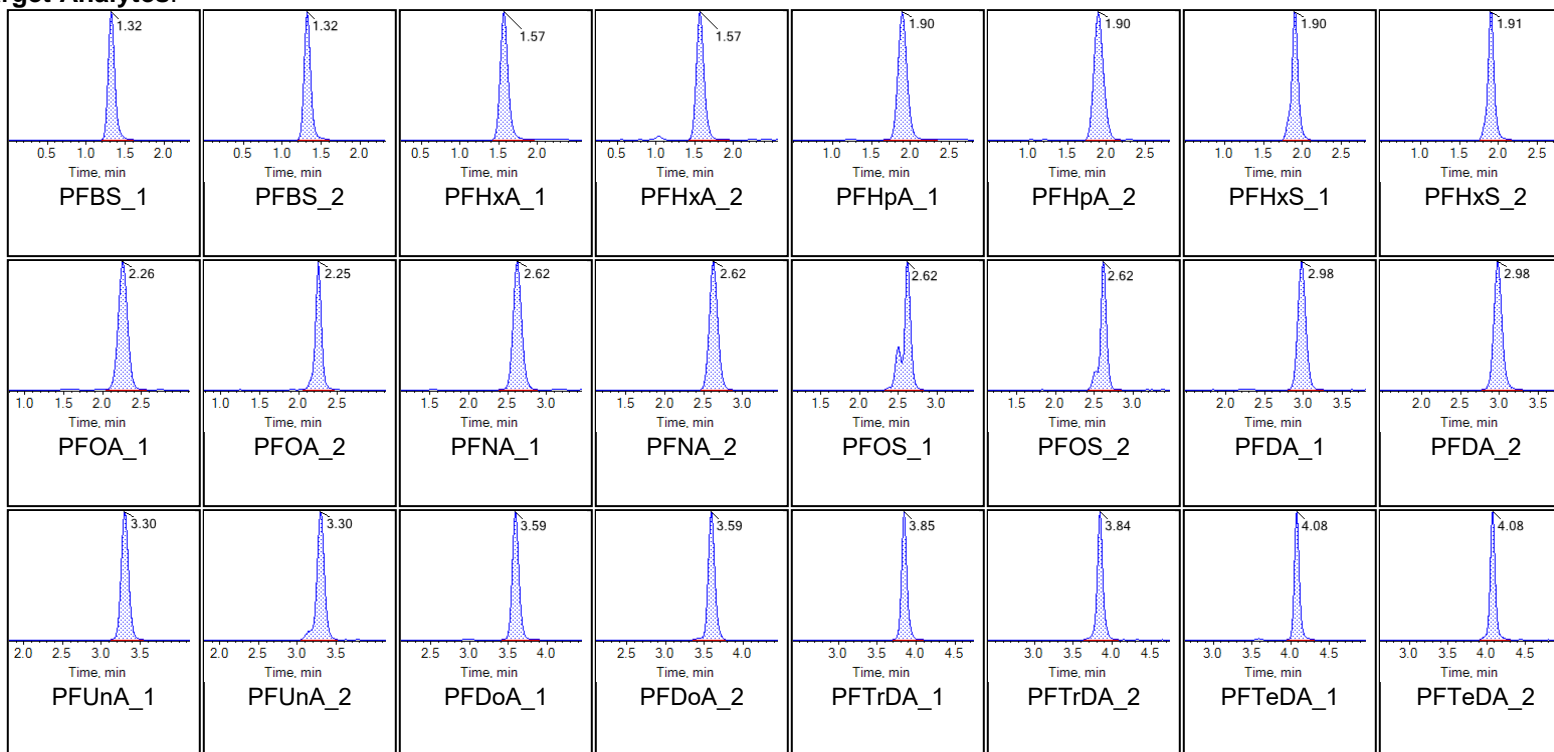
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD76	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:28:36 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

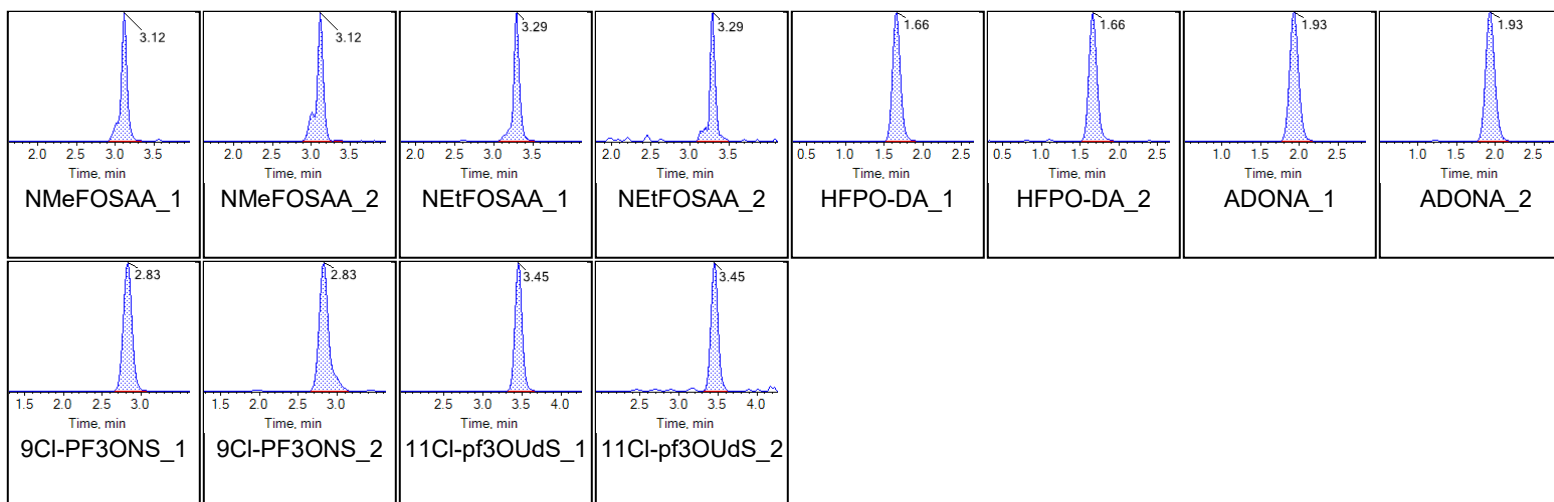
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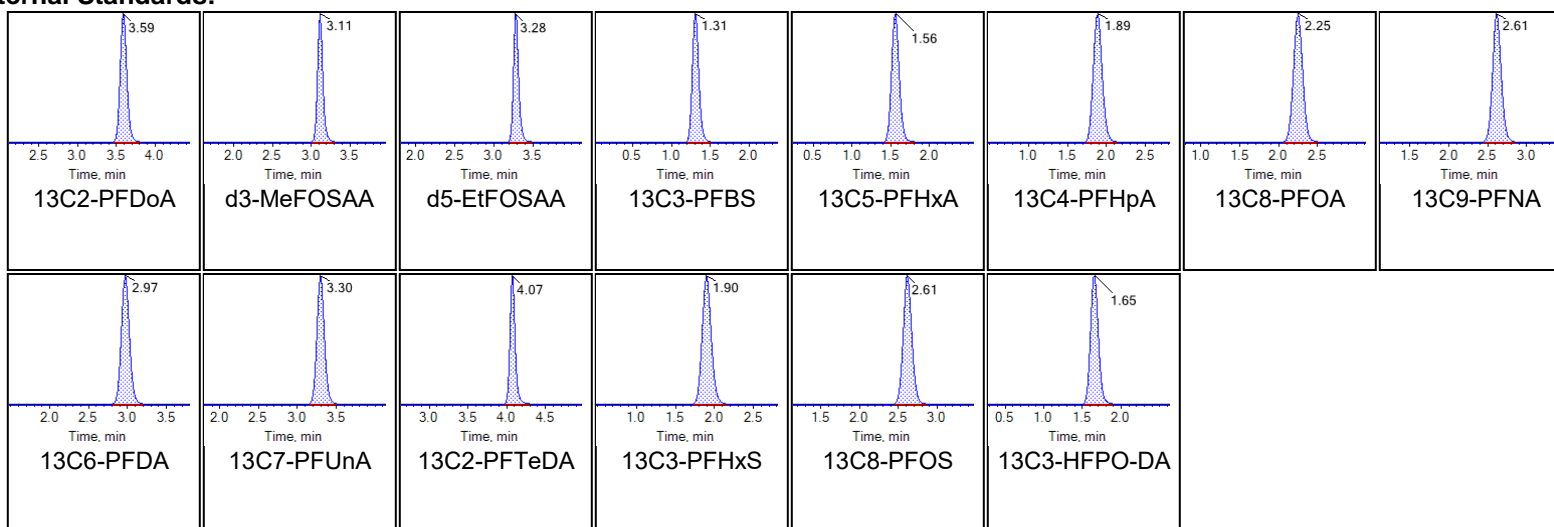




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Internal Standards:





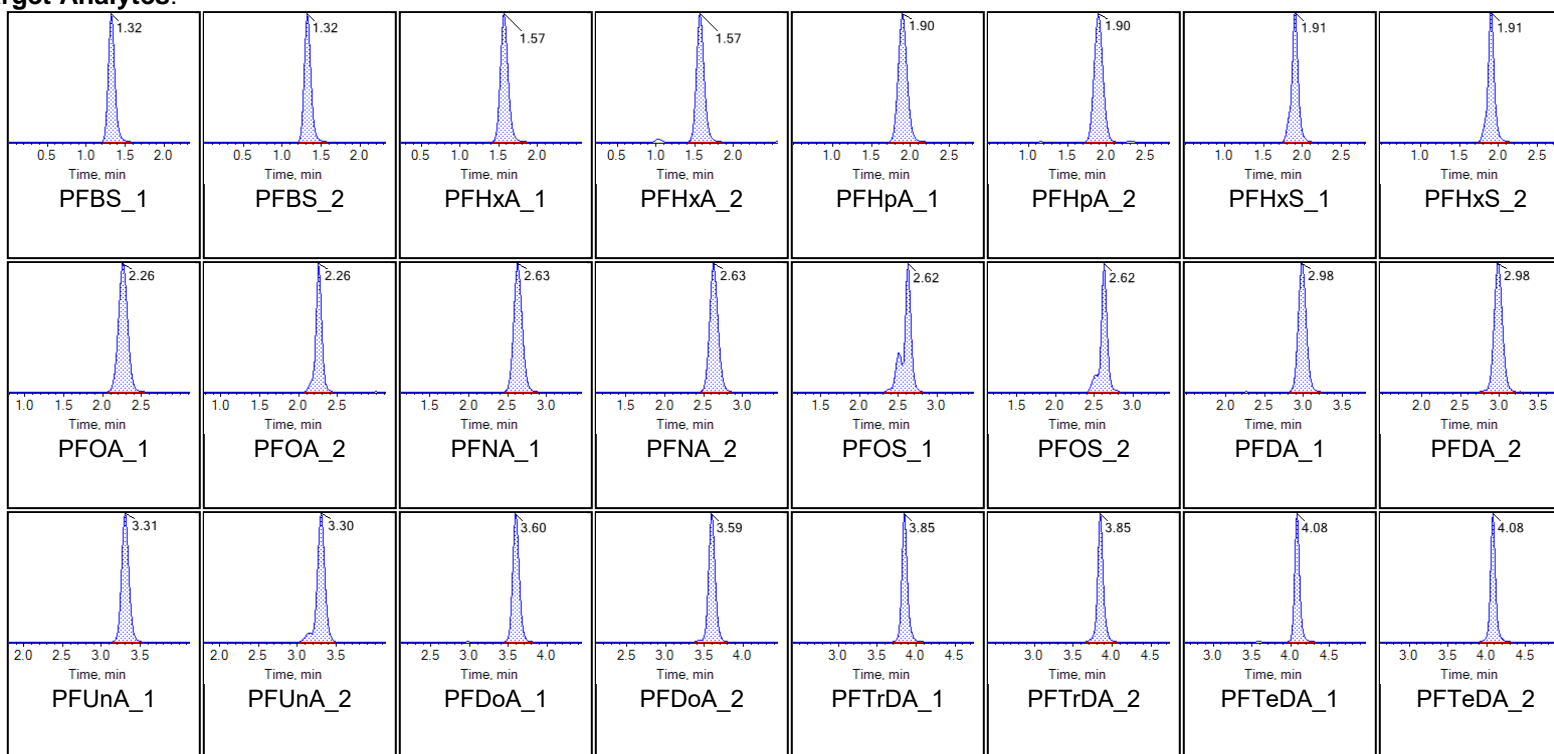
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD77	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:39:03 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

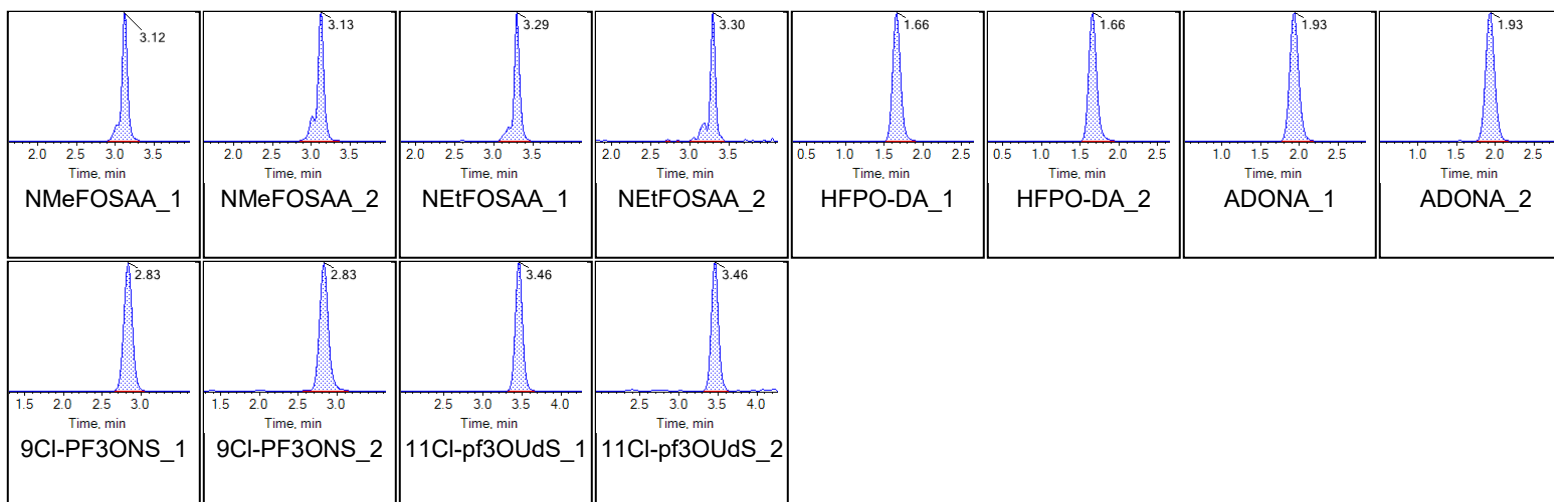
Chromatograms

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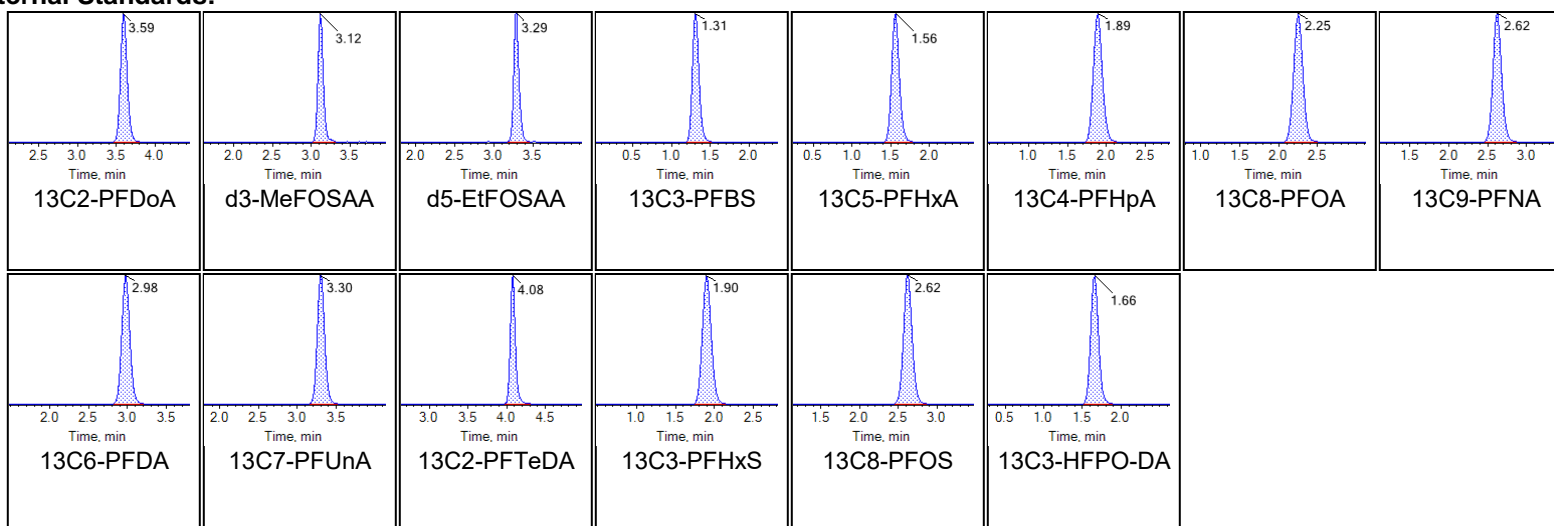




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Internal Standards:





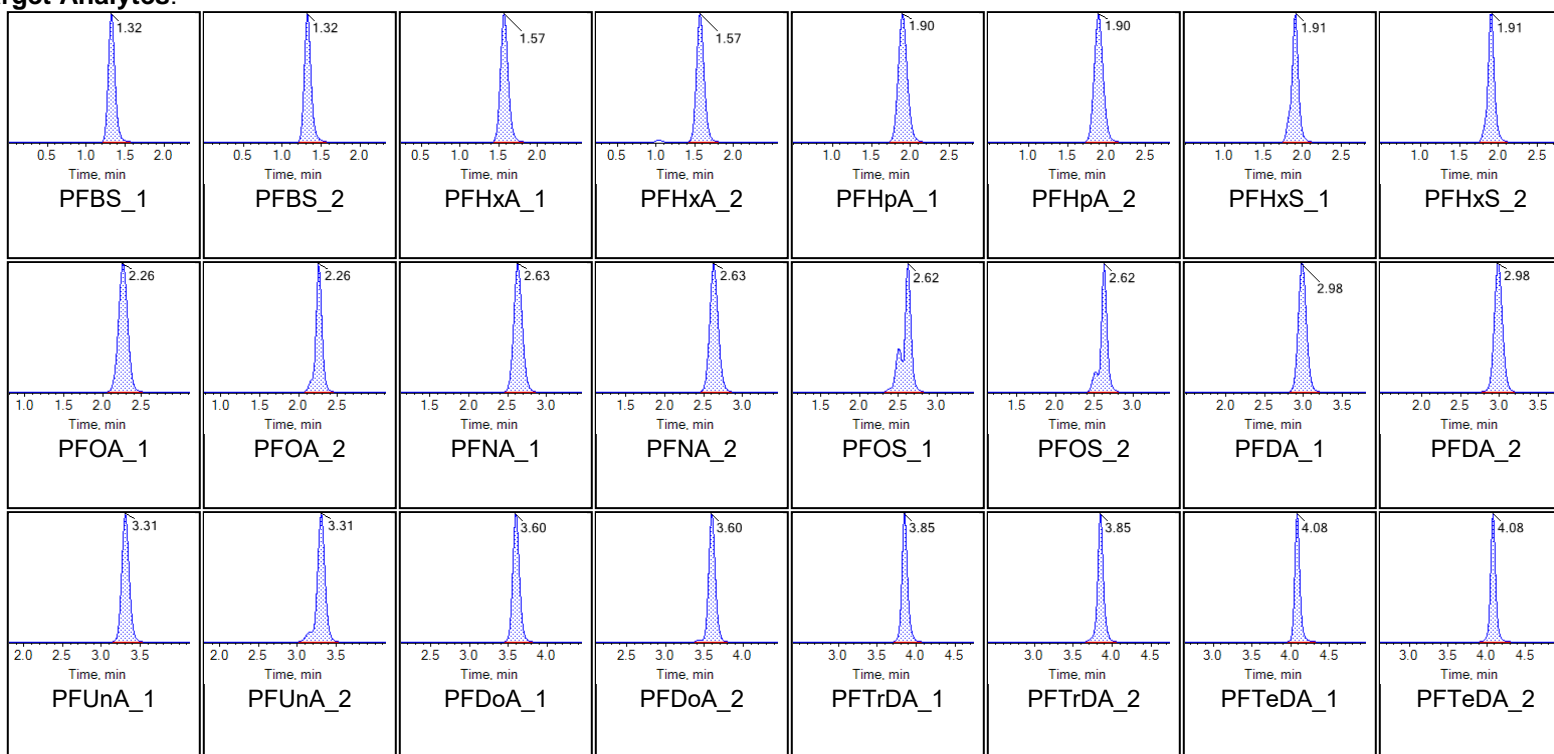
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD78	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:49:29 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

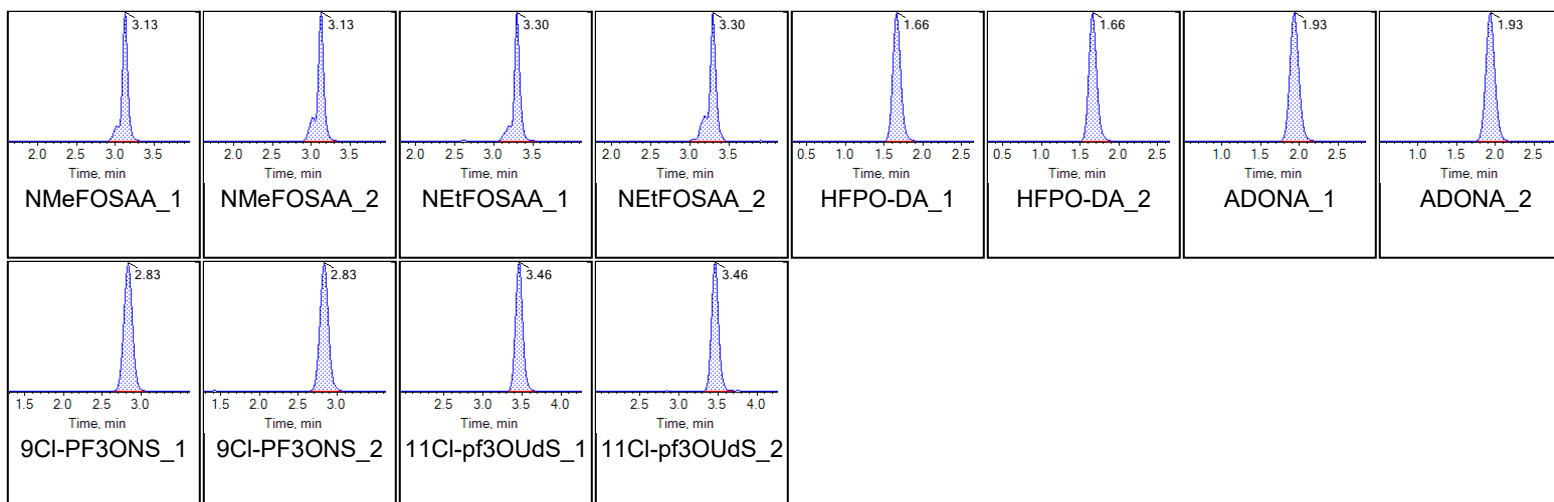
Chromatograms

Target Analytes:

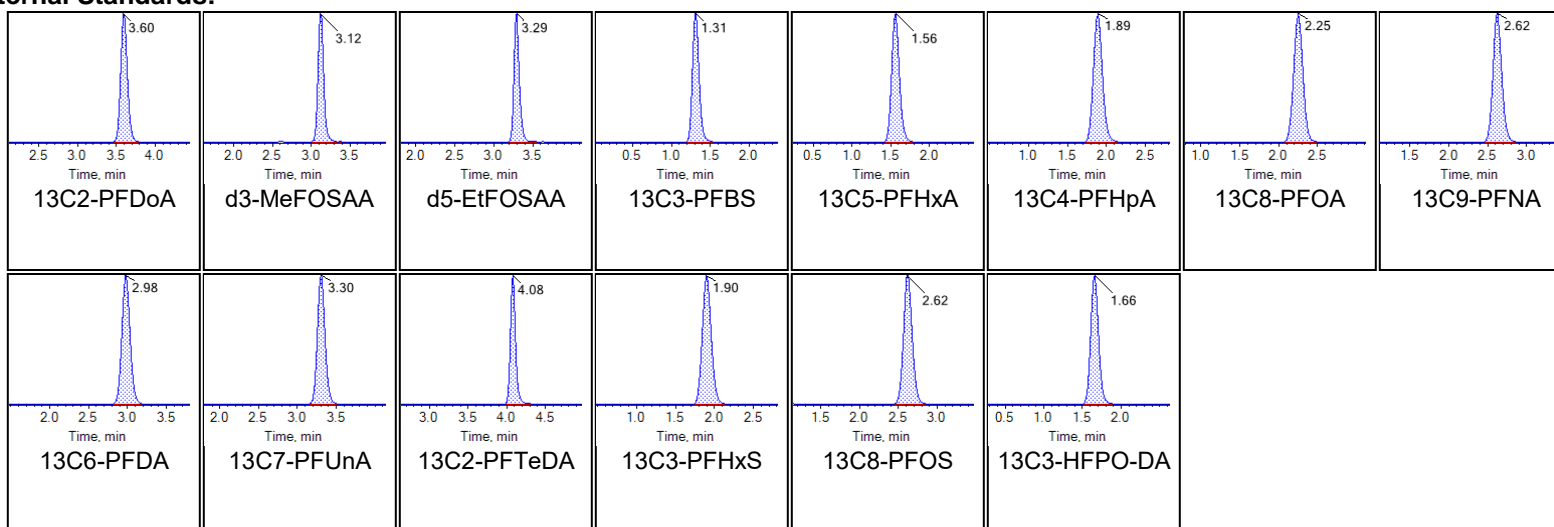




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Internal Standards:





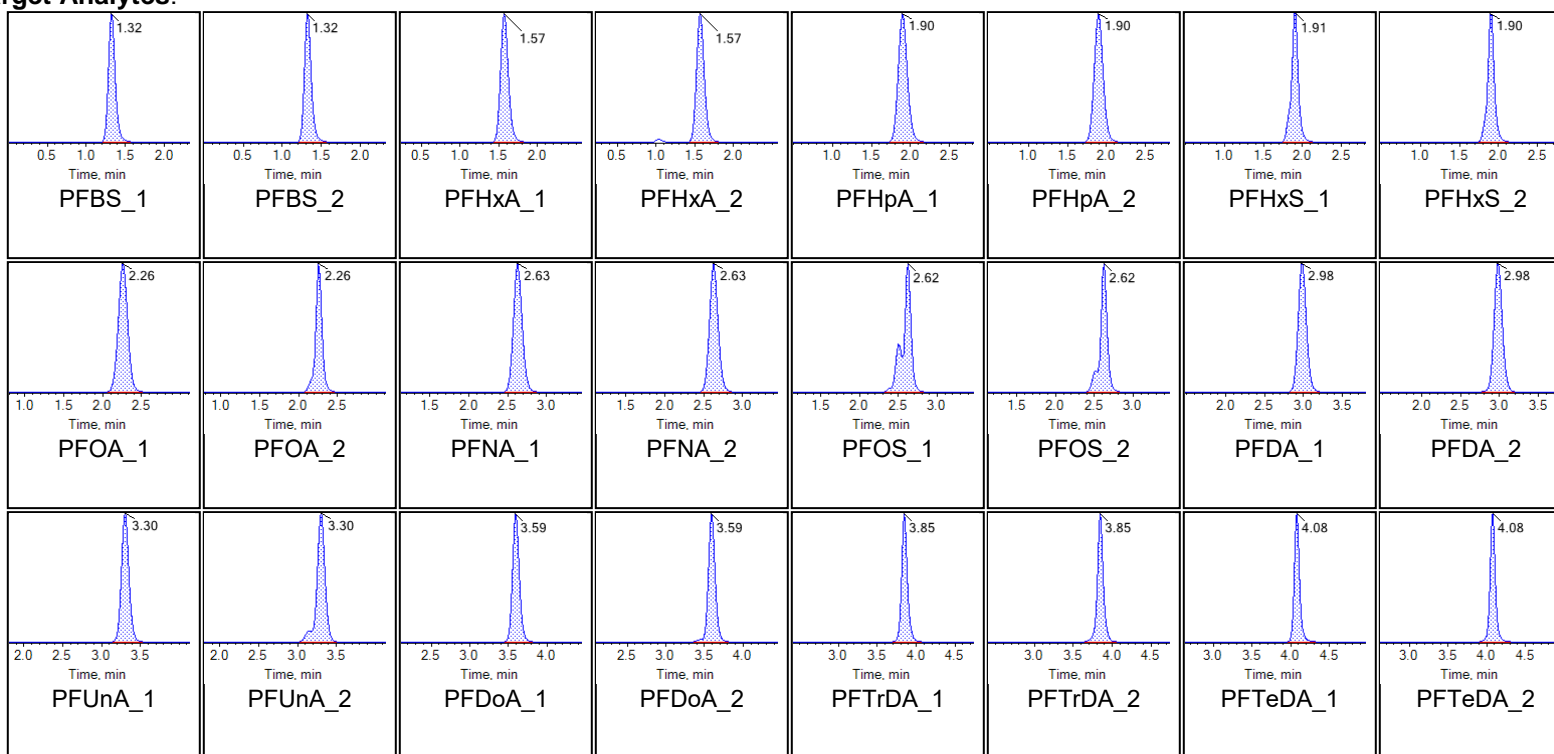
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD79	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:59:58 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

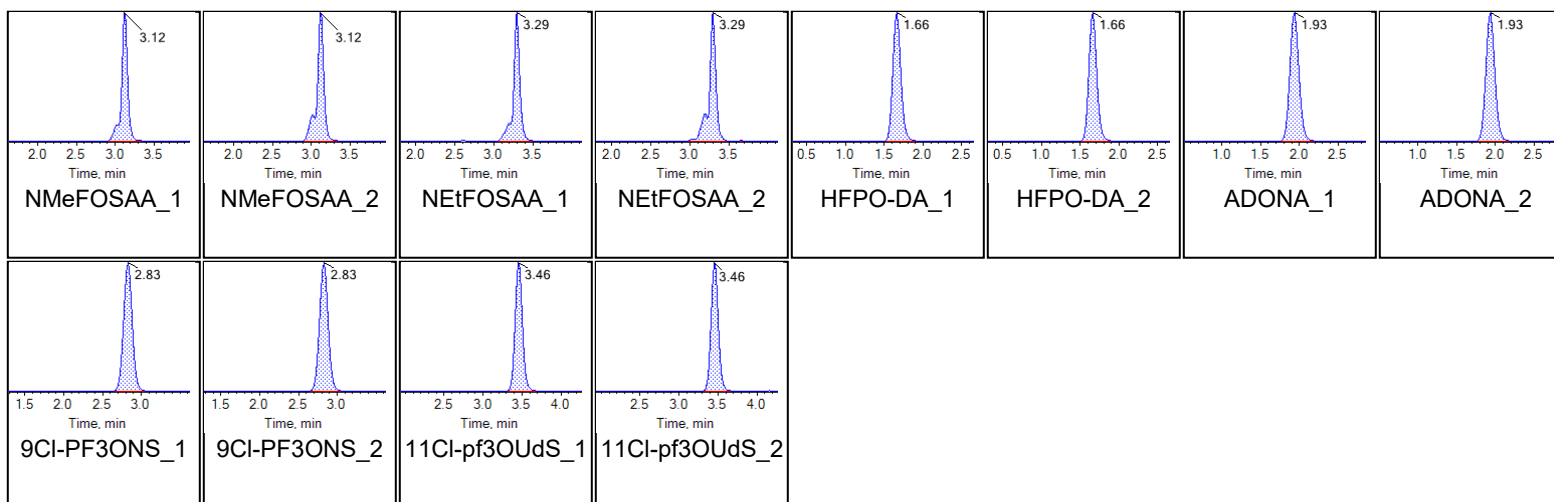
Chromatograms

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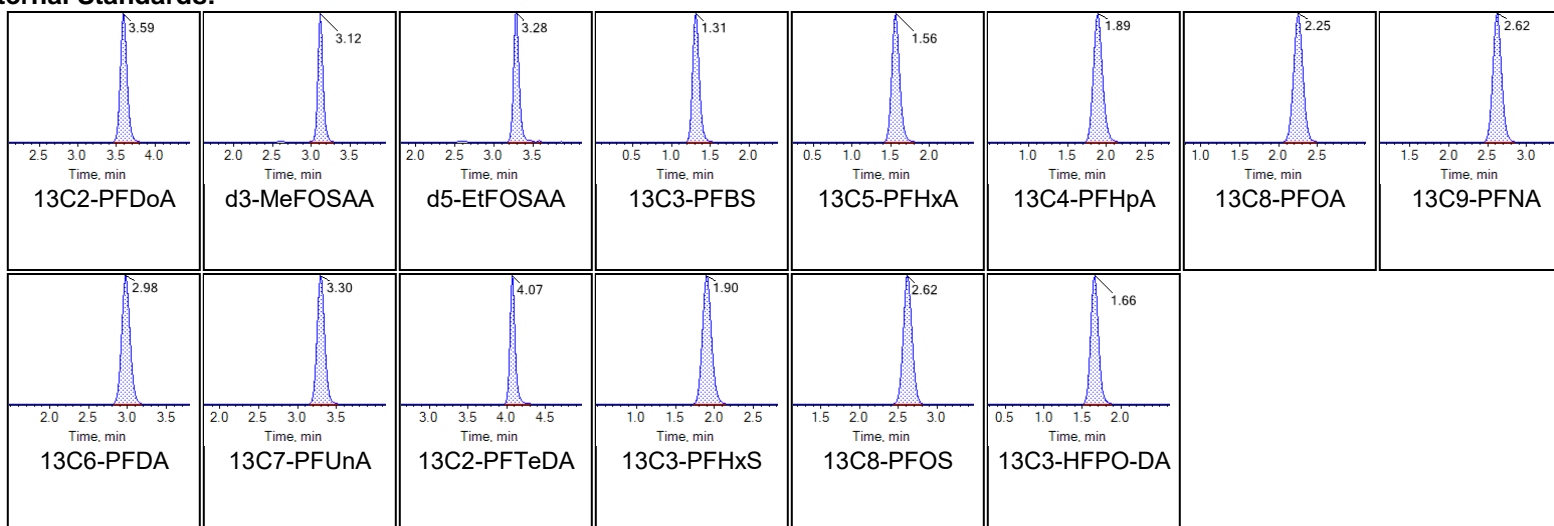




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Internal Standards:





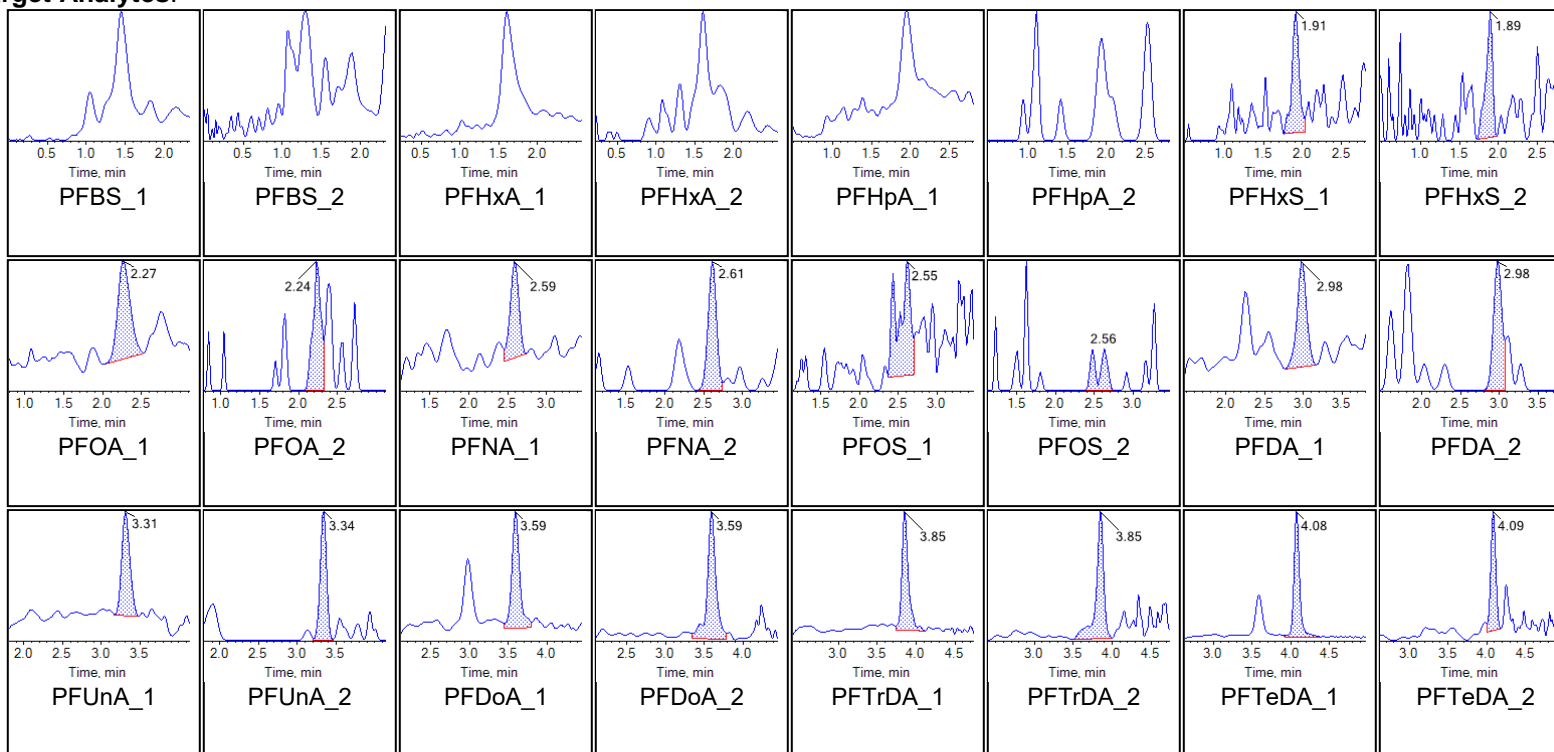
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD80 IB	Injection Vial	8
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 4:10:26 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

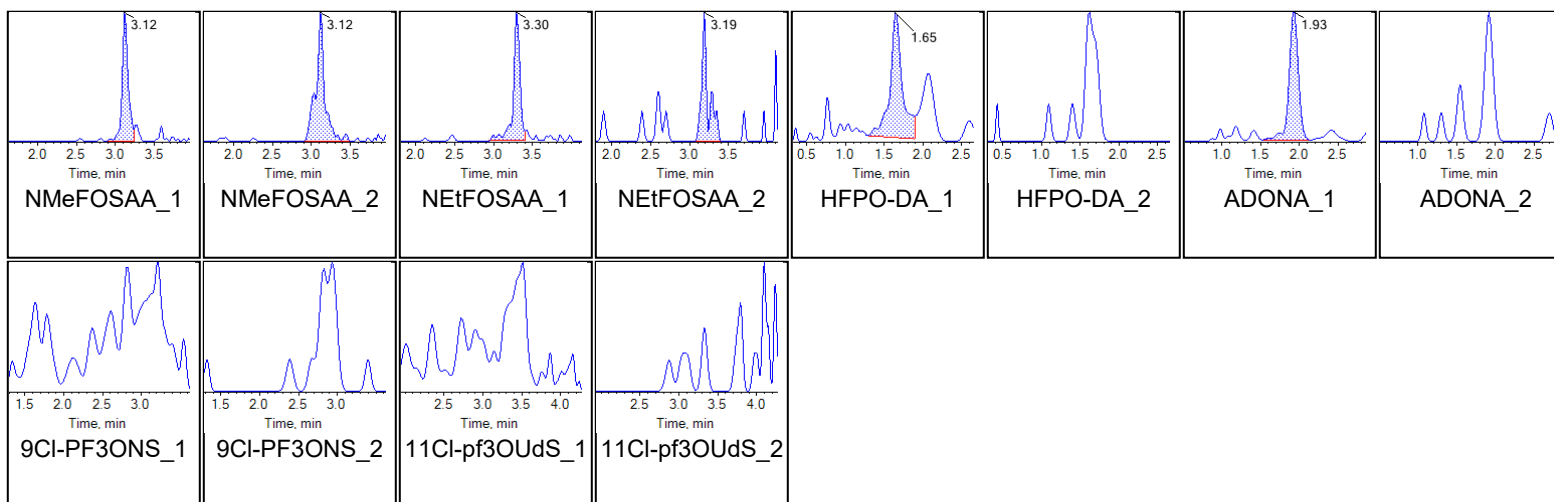
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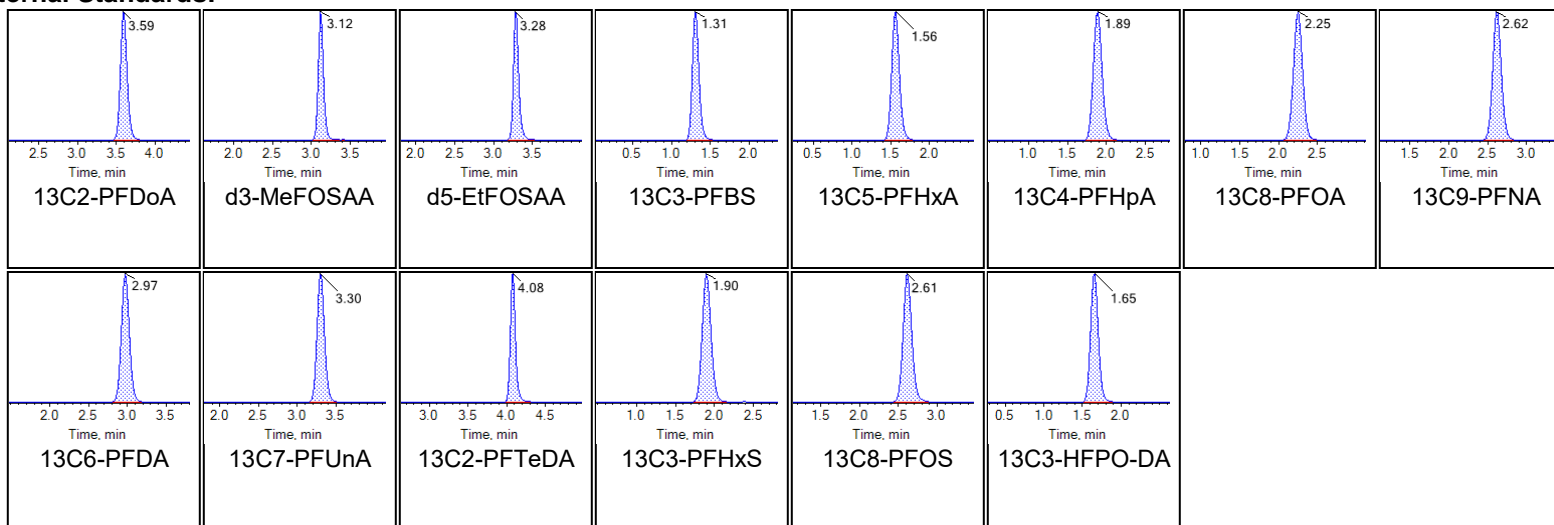




Chromatogram Report

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Internal Standards:





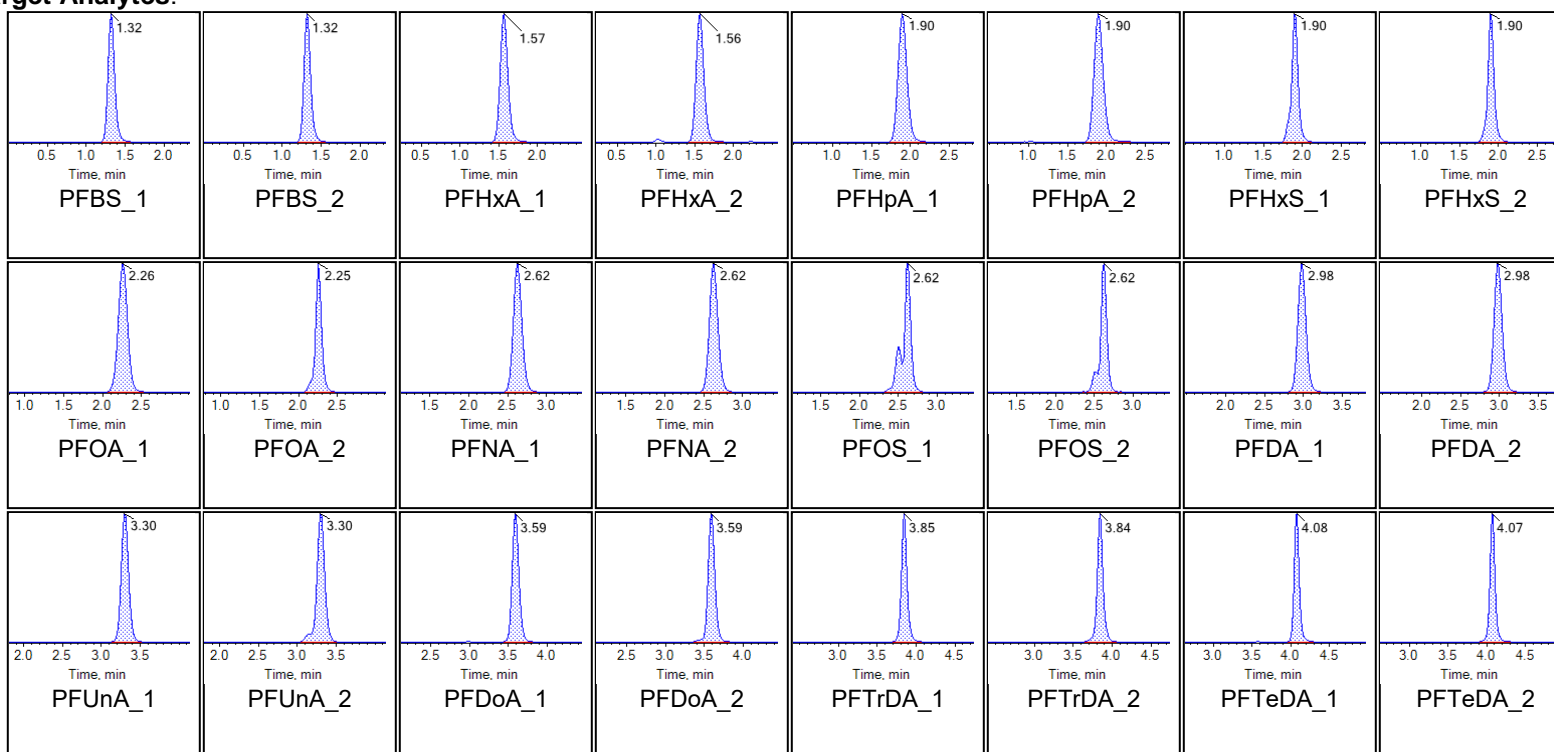
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD81 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 4:20:54 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

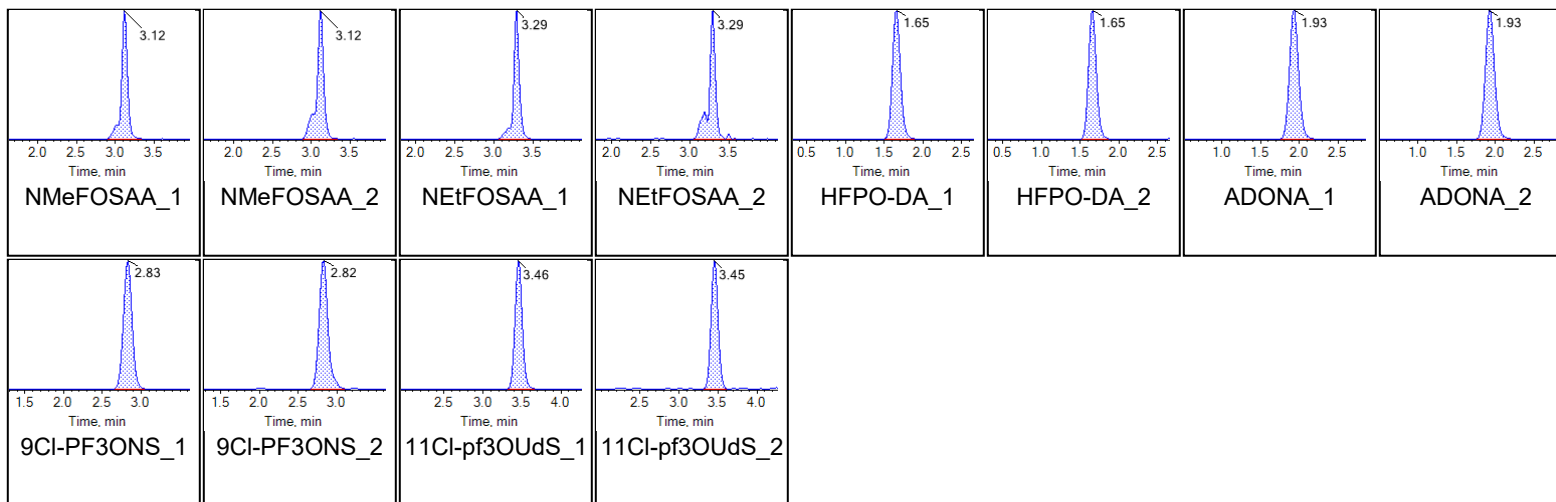
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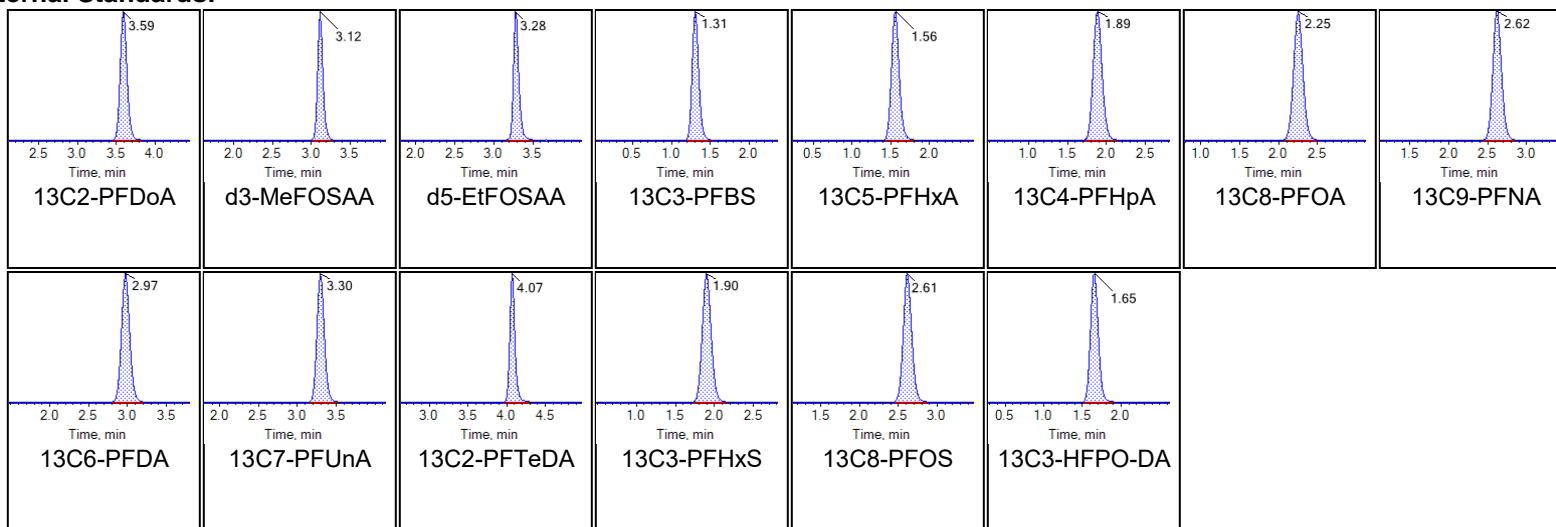


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Internal Standards:





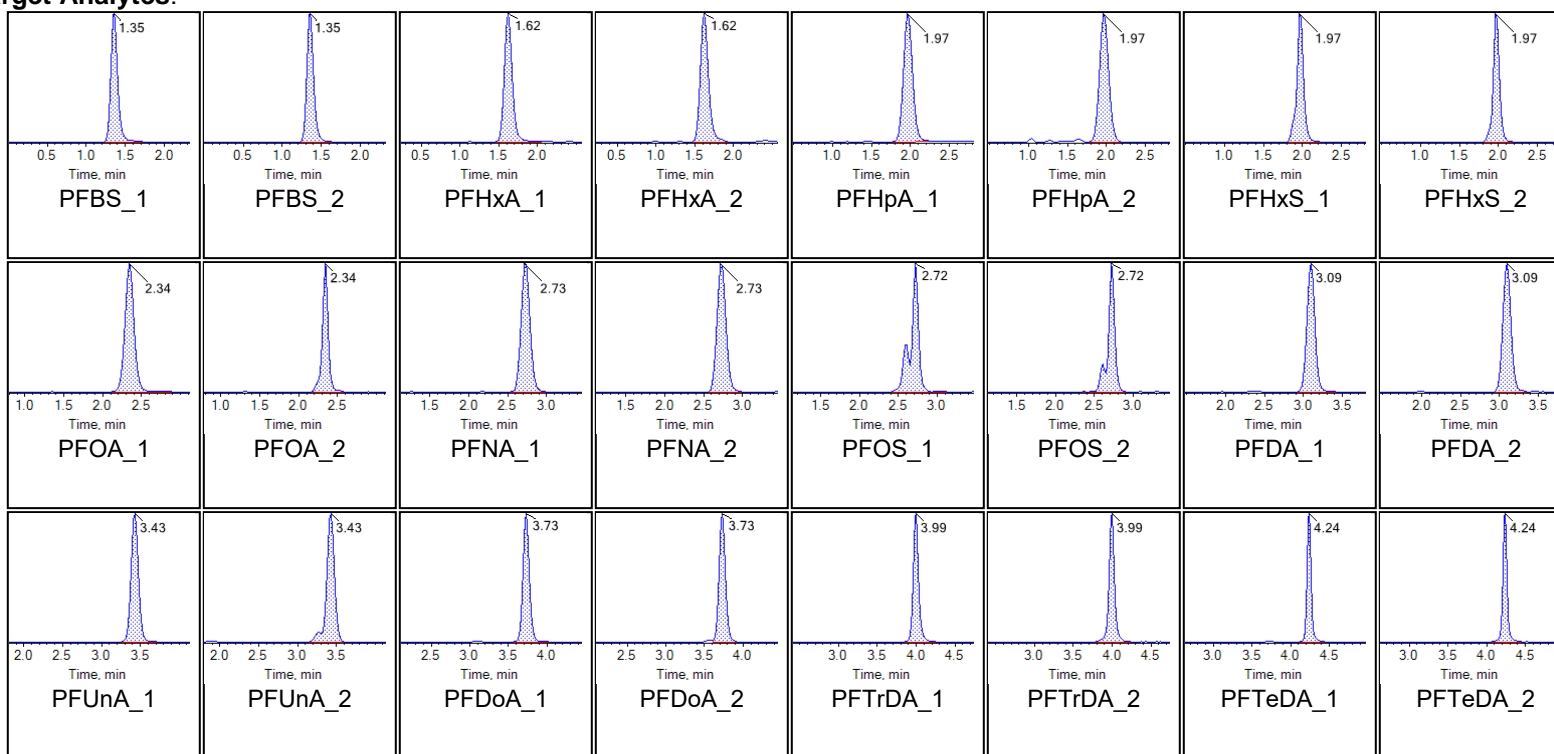
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Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 9:34:18 AM	Data File	AE_11022020_5-369.wiff
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Chromatograms

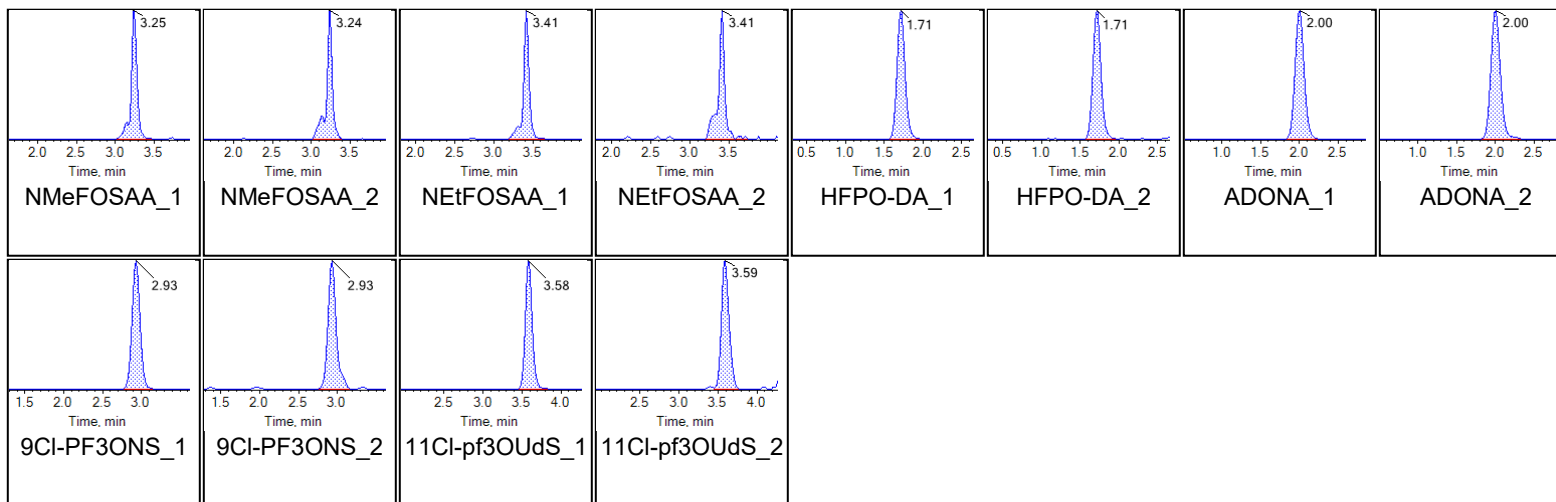
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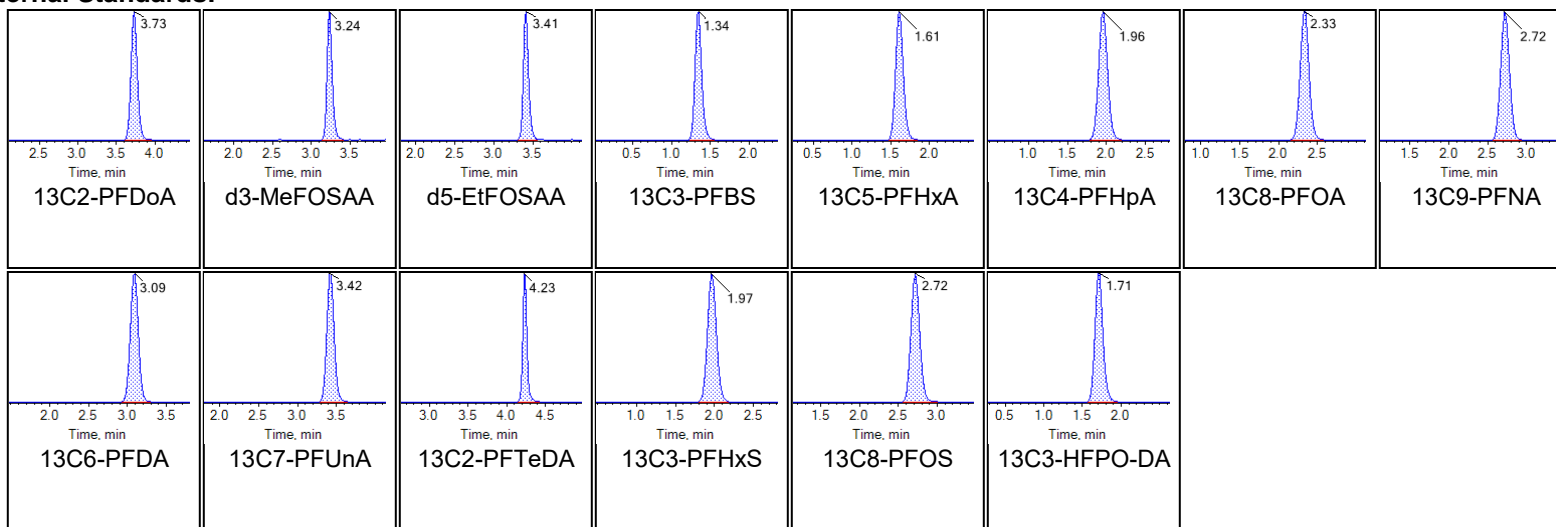


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Internal Standards:





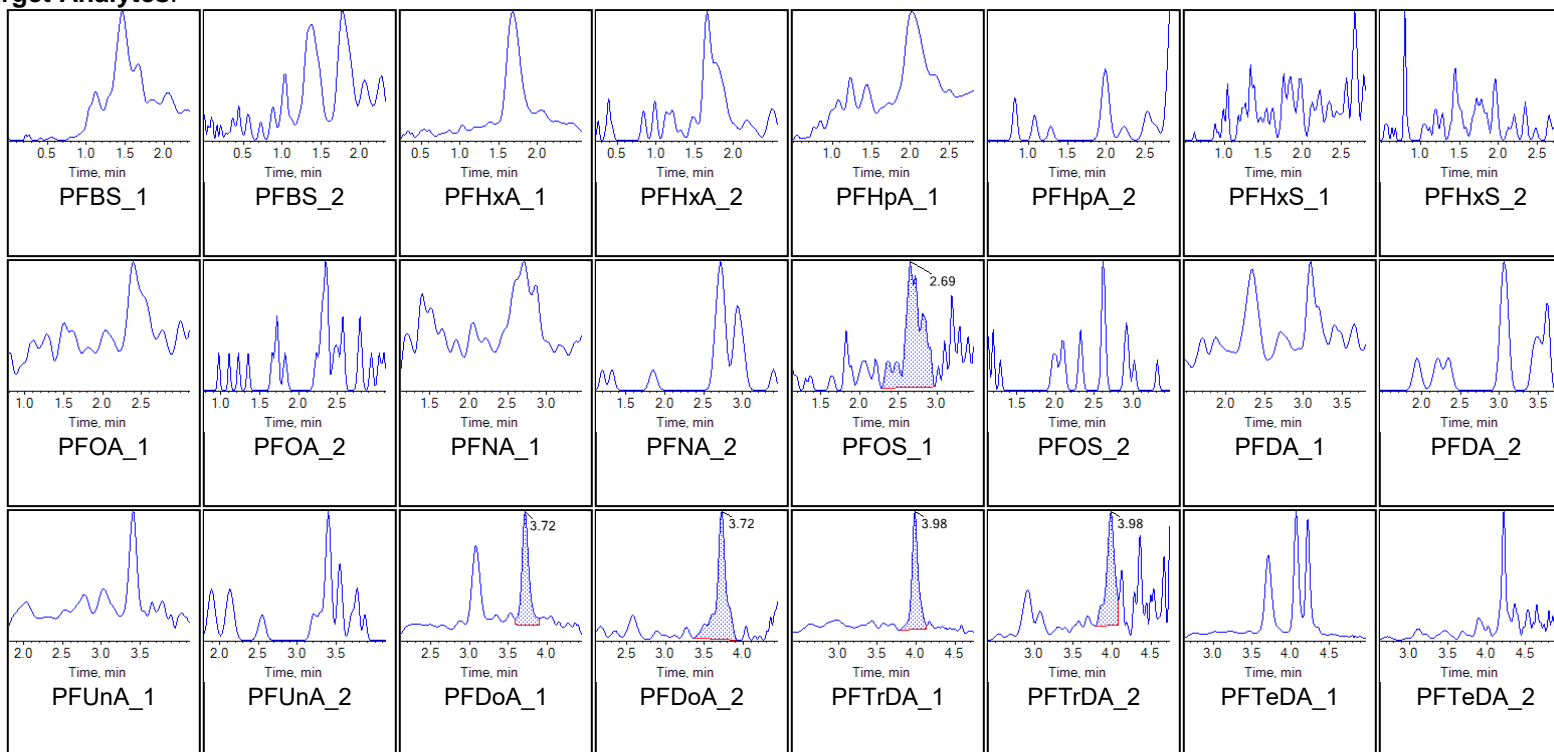
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Created with Analyst Reporter
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Sample Name	LD80 IB	Injection Vial	4
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 9:55:12 AM	Data File	AE_11022020_5-369.wiff
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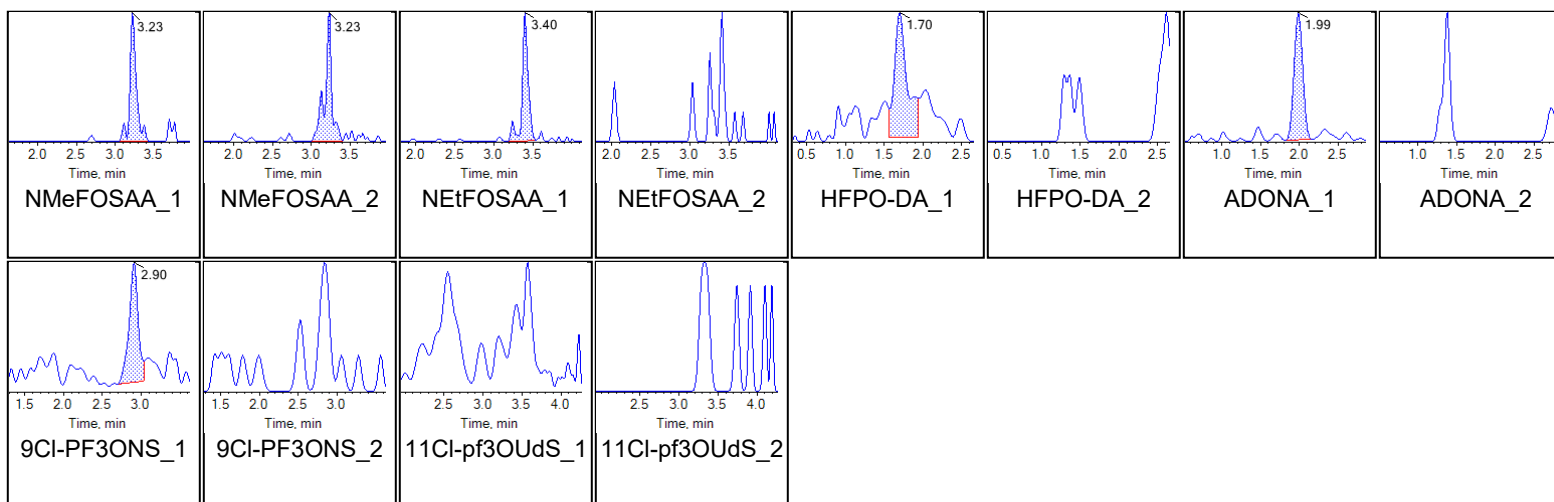
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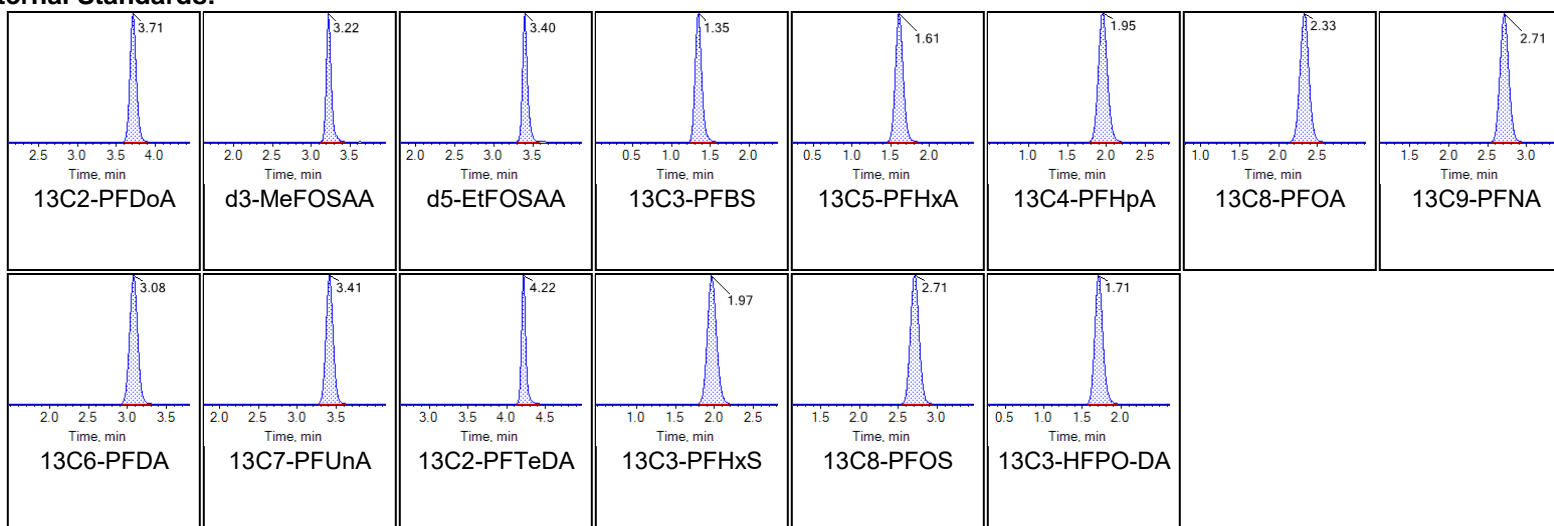




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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





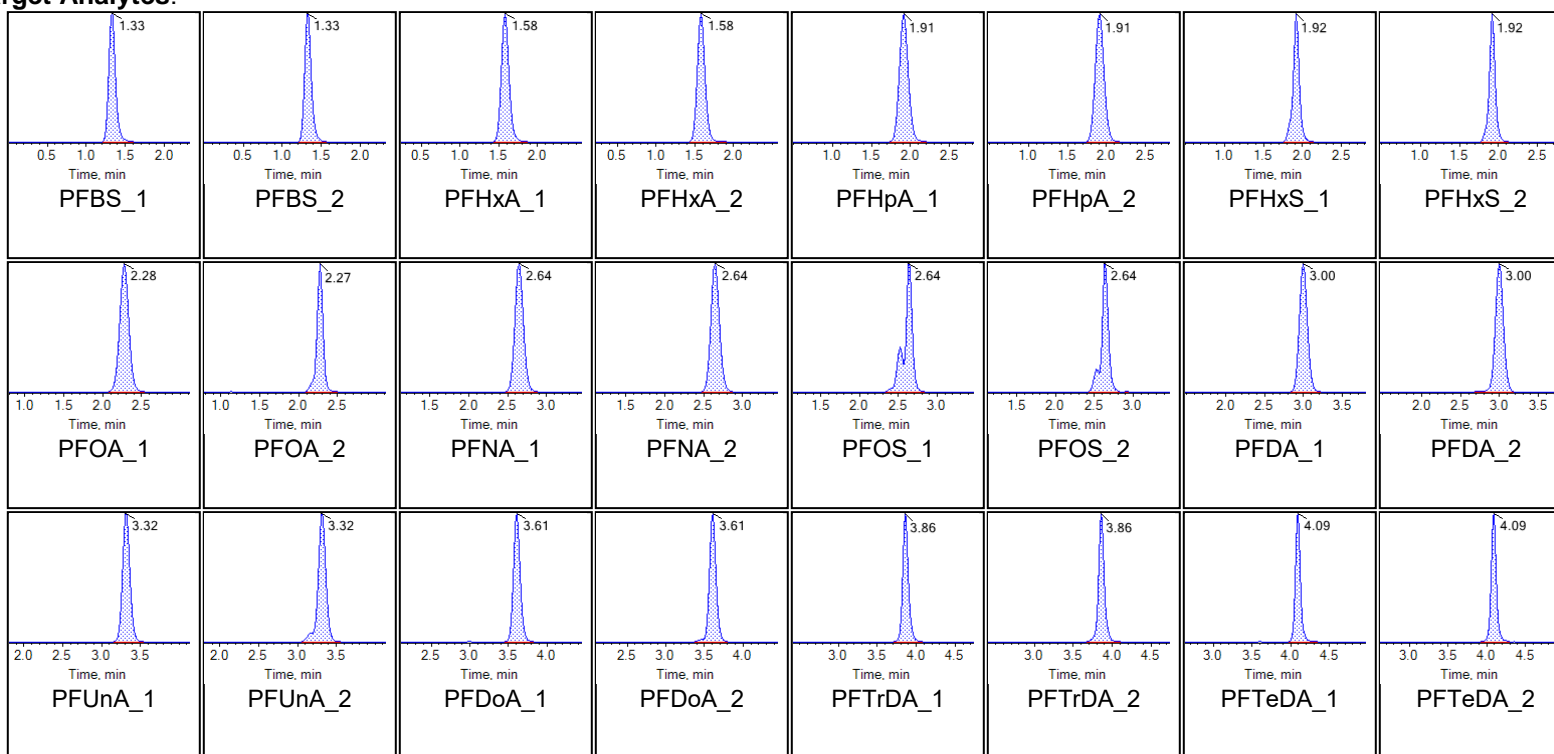
Chromatogram Report

Created with Analyst Reporter
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Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:17:09 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

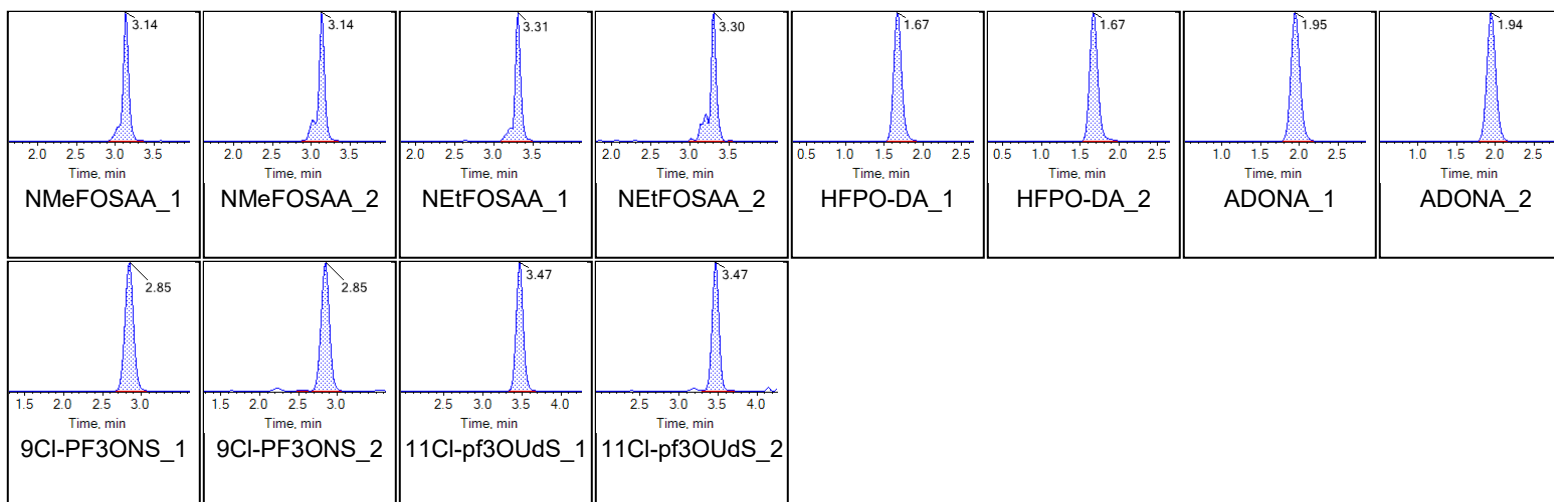
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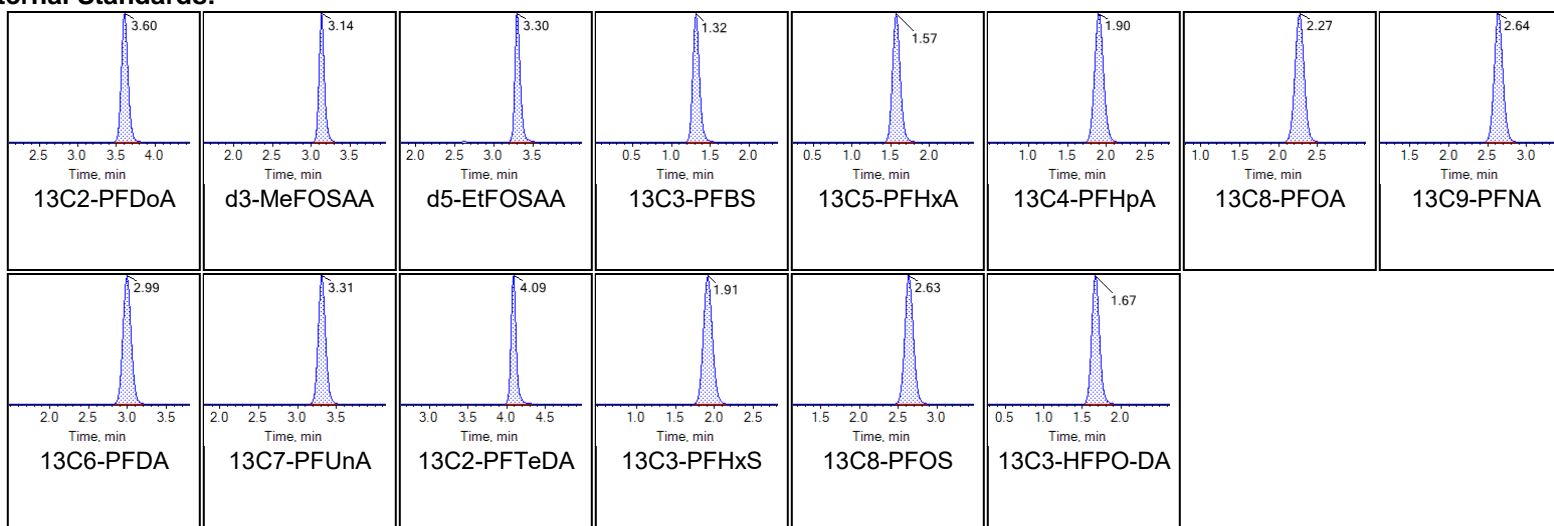




Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





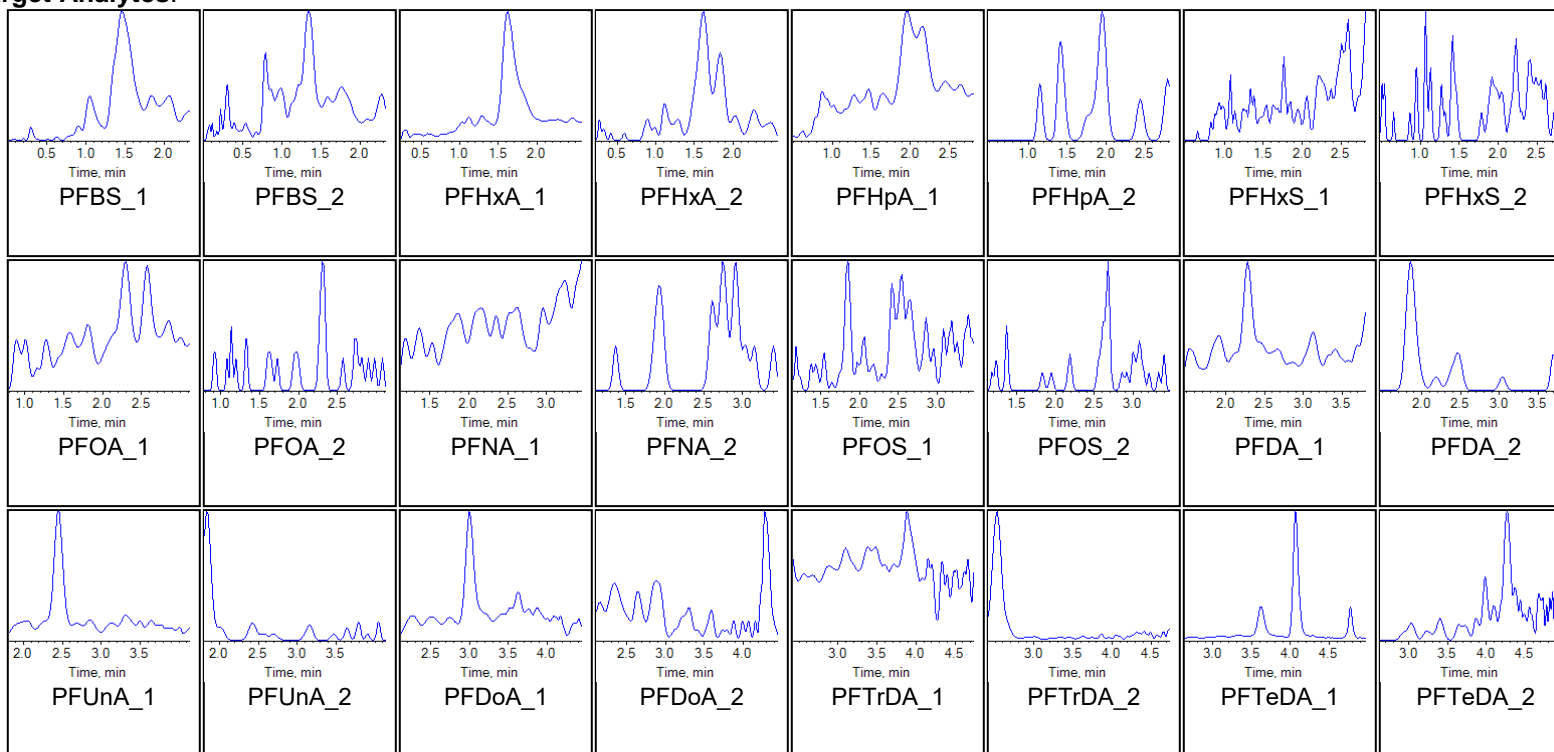
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	DA891PB-FS(0)	Injection Vial	1
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:38:04 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

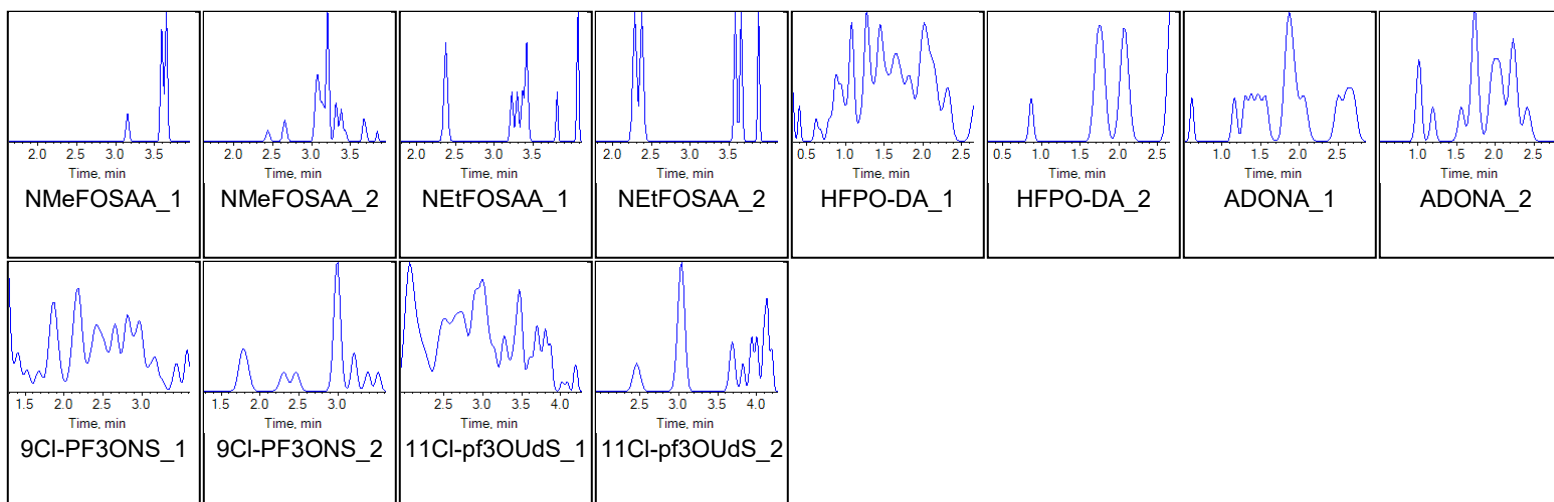
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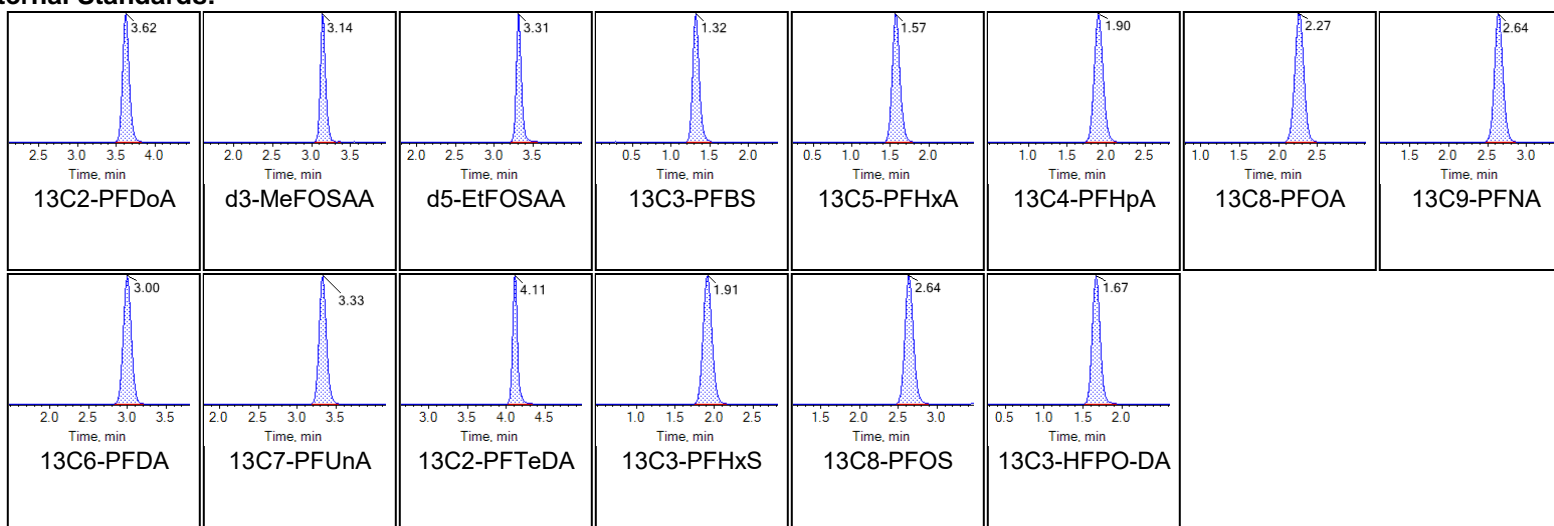




Chromatogram Report

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Internal Standards:





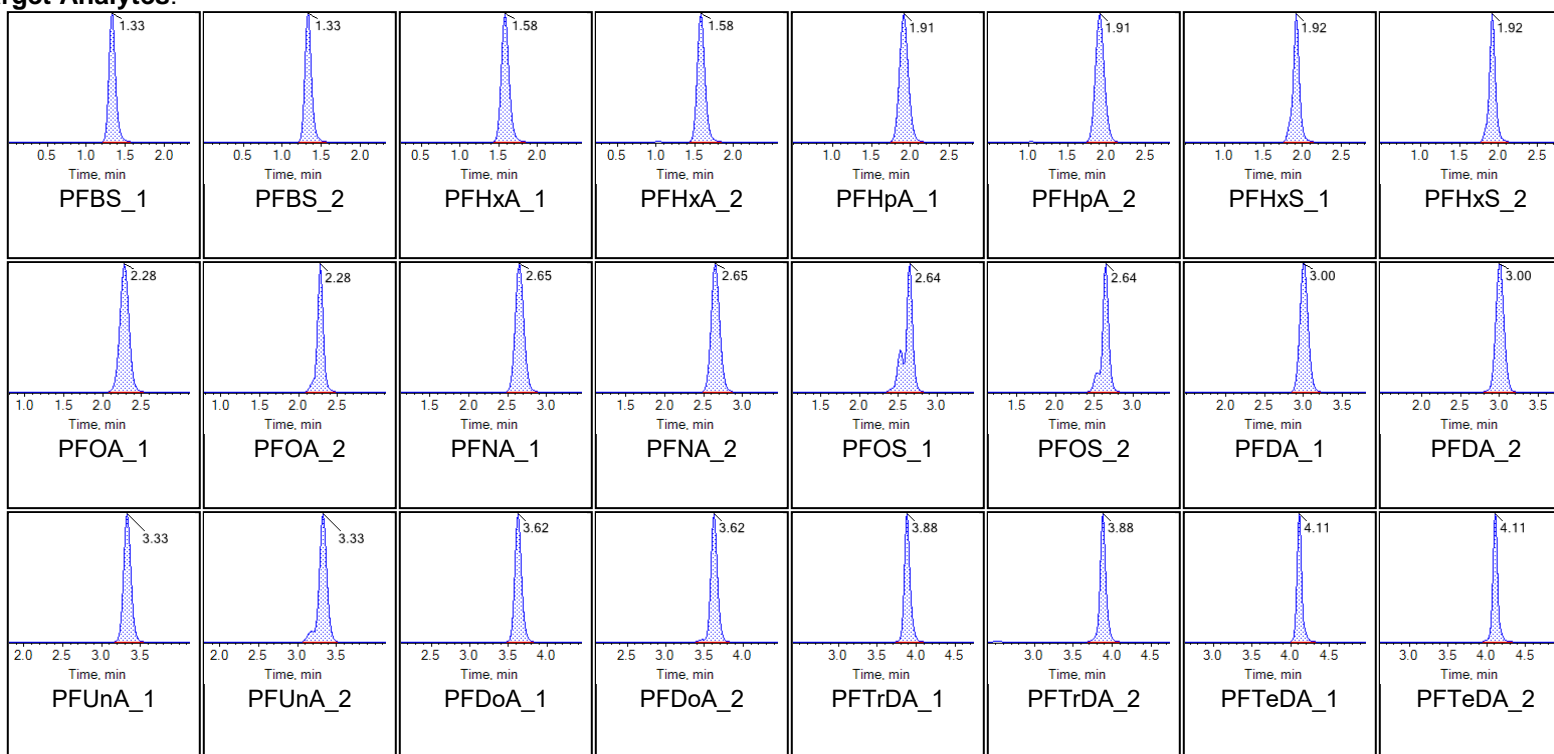
Chromatogram Report

Created with Analyst Reporter
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Sample Name	DA892LCS-FS(0)	Injection Vial	2
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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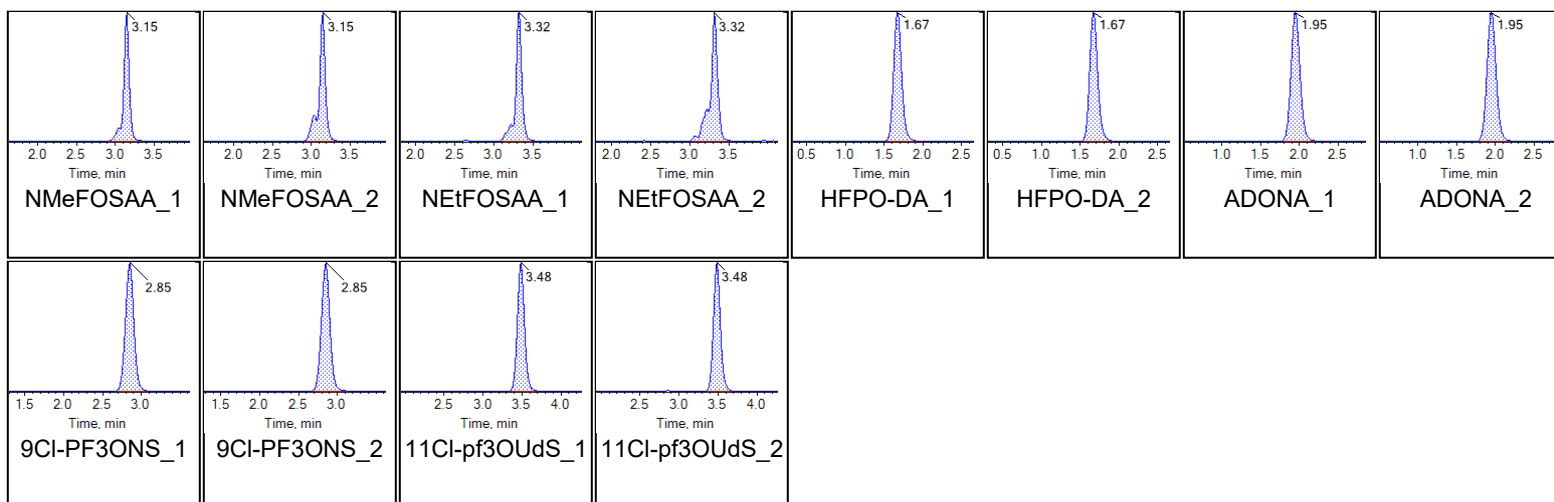
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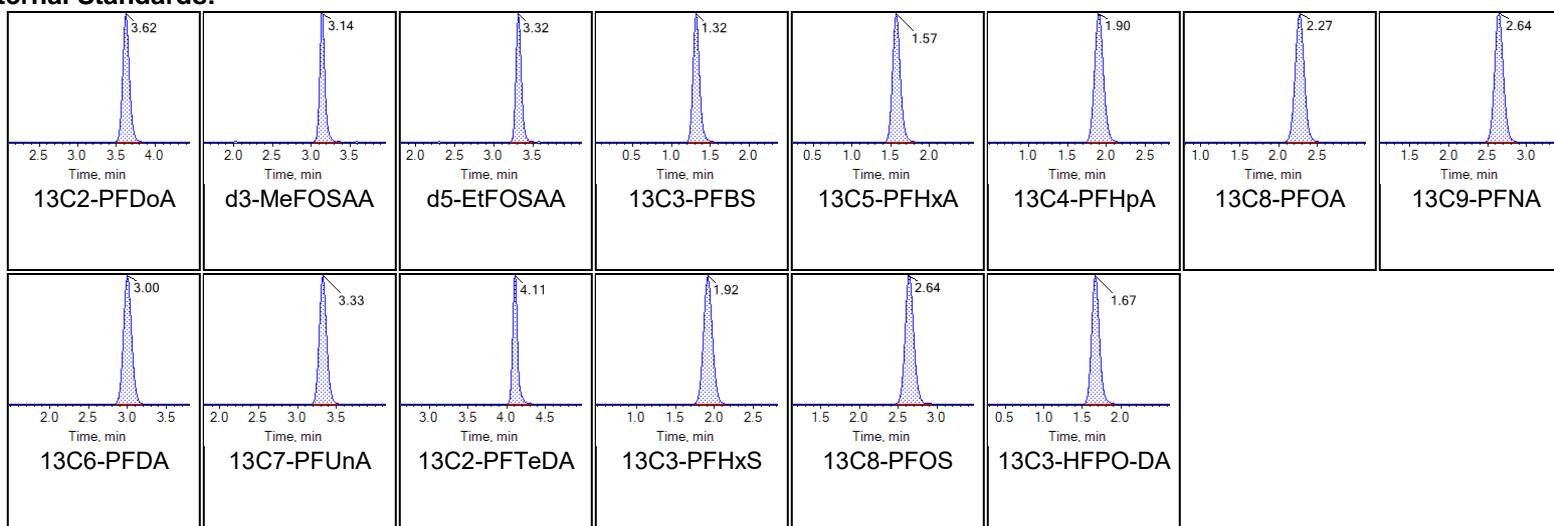




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Internal Standards:





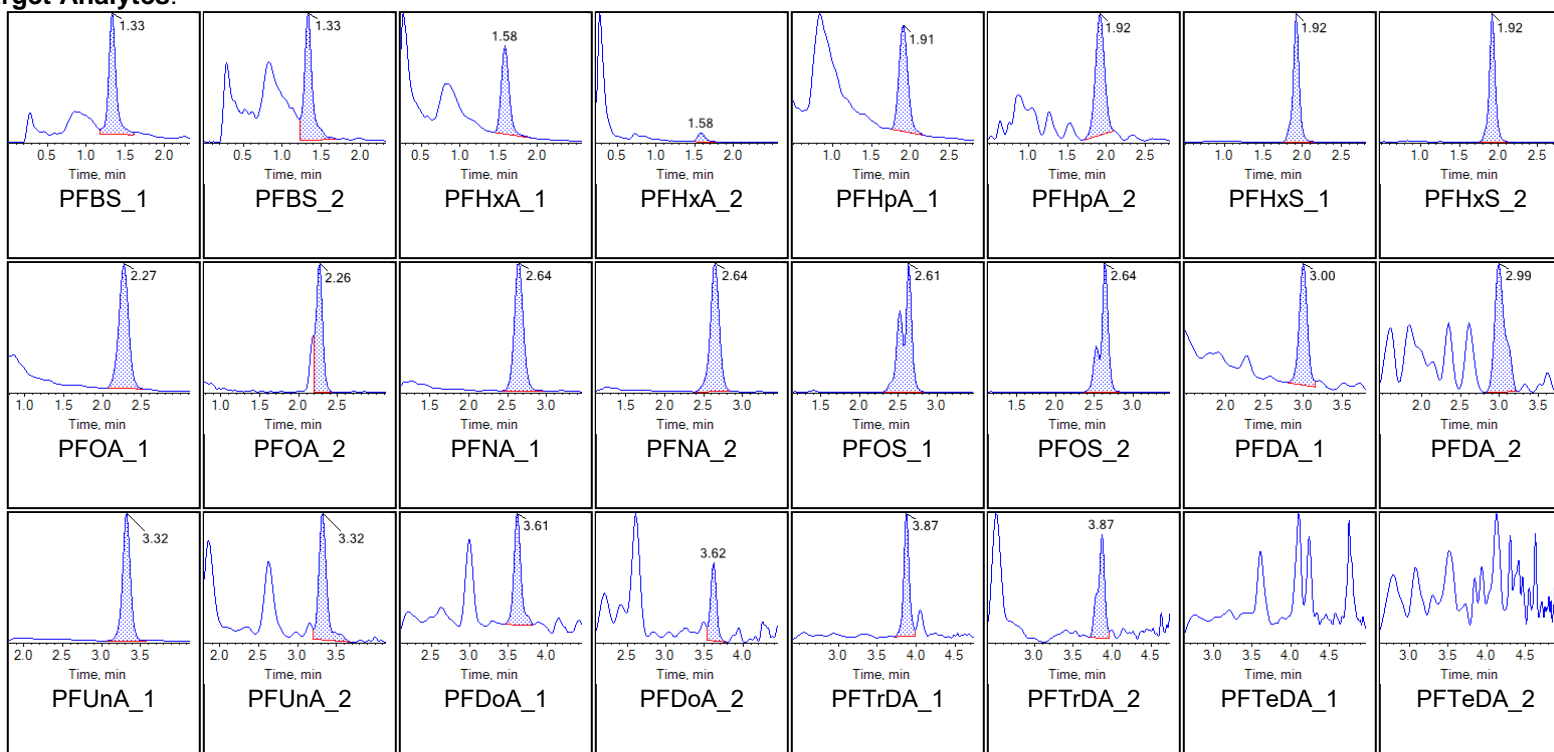
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1651-FS(0)	Injection Vial	3
Sample ID	CBD-AOA-SW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:59:02 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

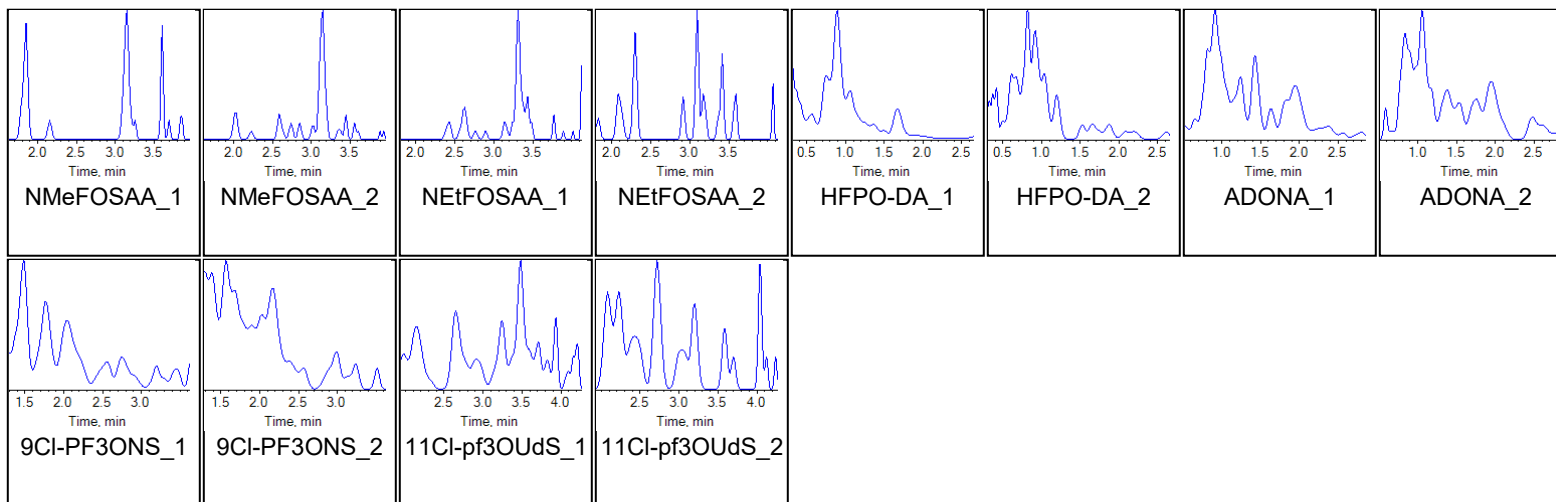
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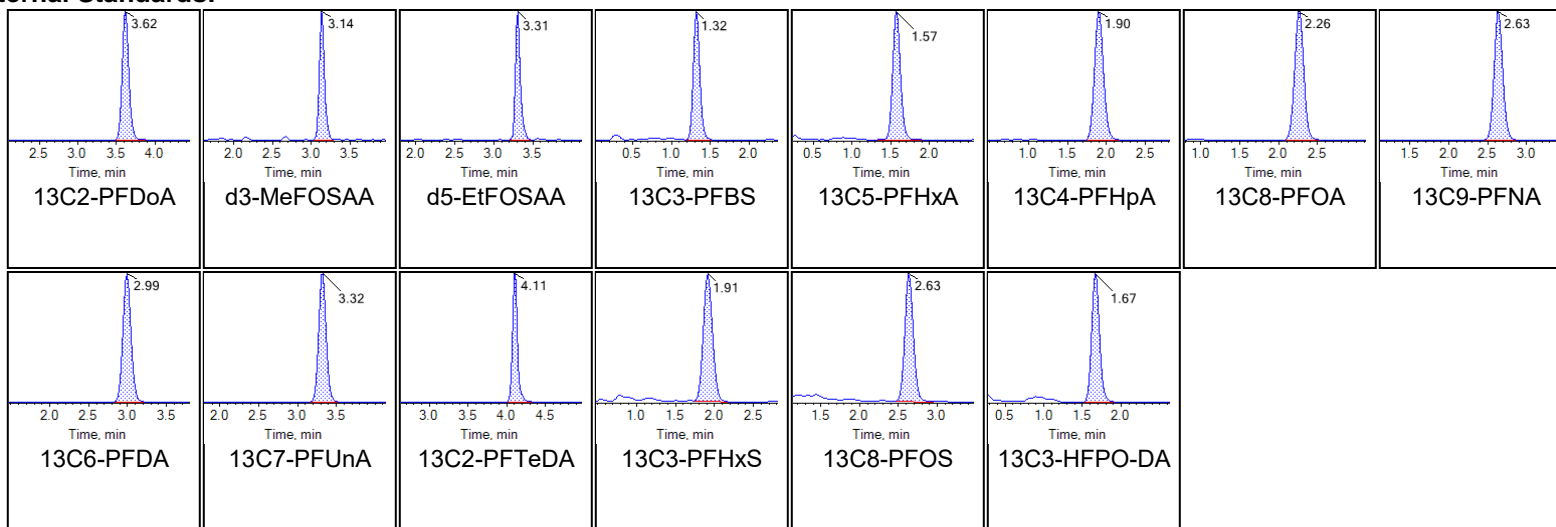


Chromatogram Report

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Internal Standards:





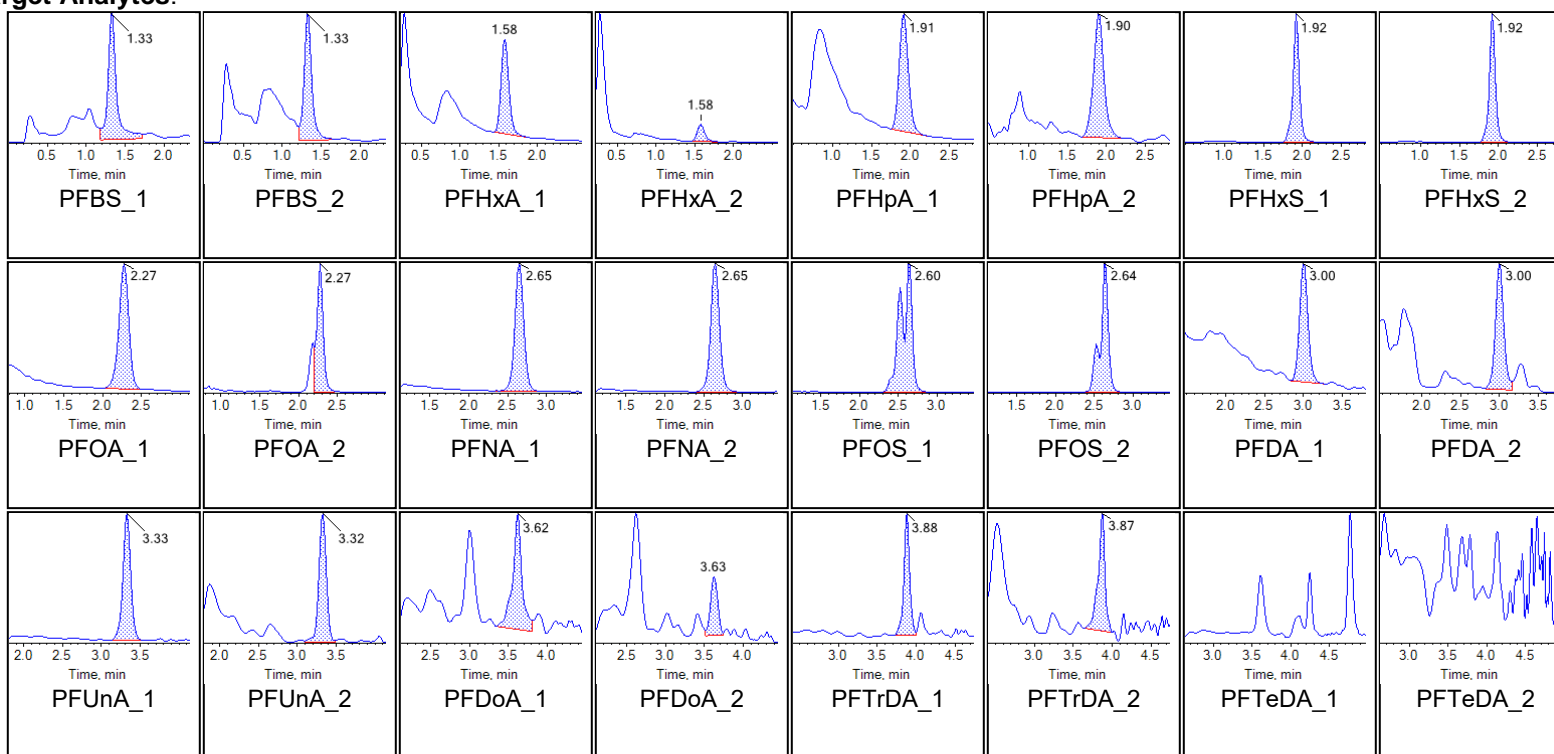
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1652-FS(0)	Injection Vial	4
Sample ID	CBD-AOA-SW02P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:09:30 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

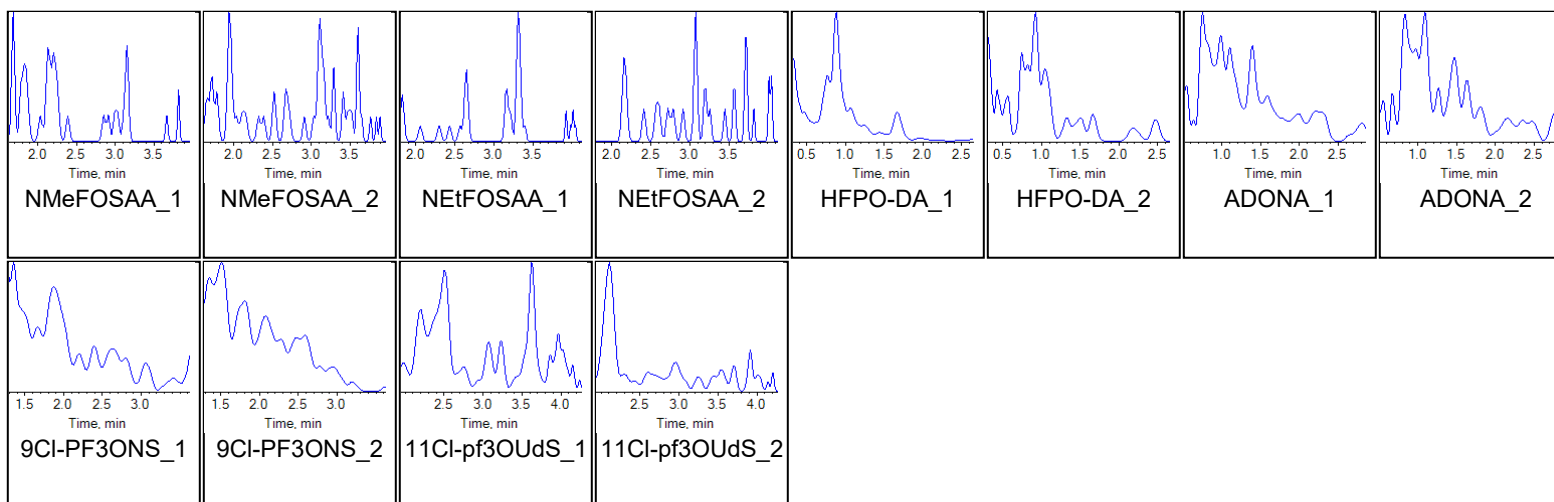
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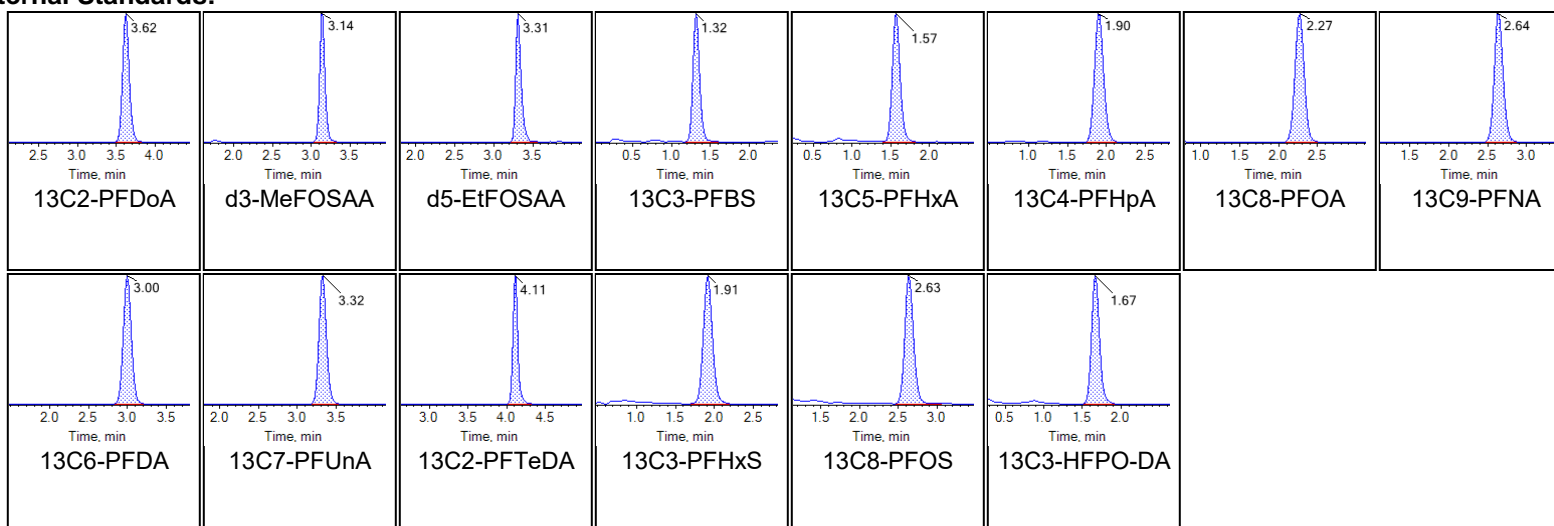


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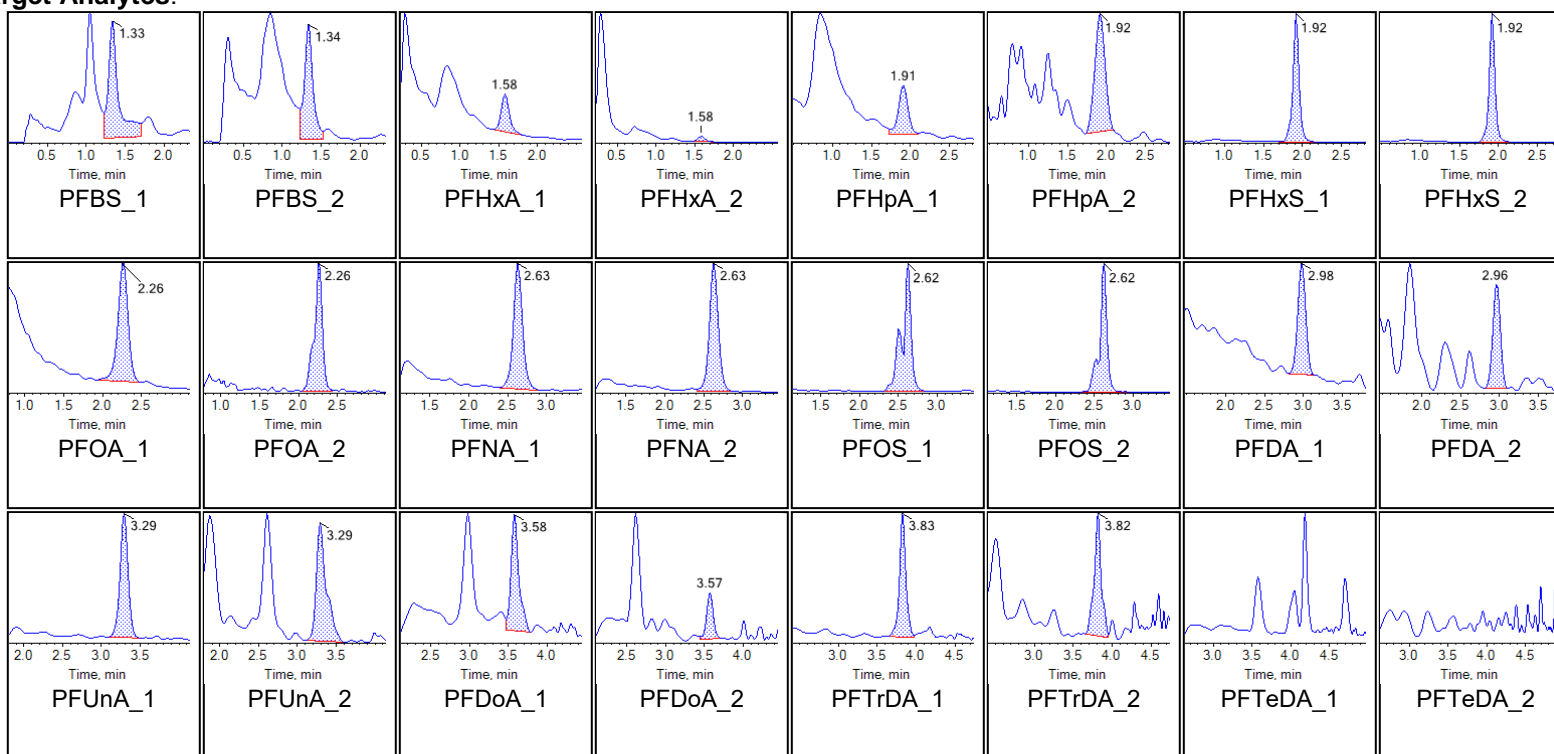
Chromatogram Report

Created with Analyst Reporter
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Sample Name	G1654-FS(0)	Injection Vial	5
Sample ID	CBD-AOA-SW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:19:58 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

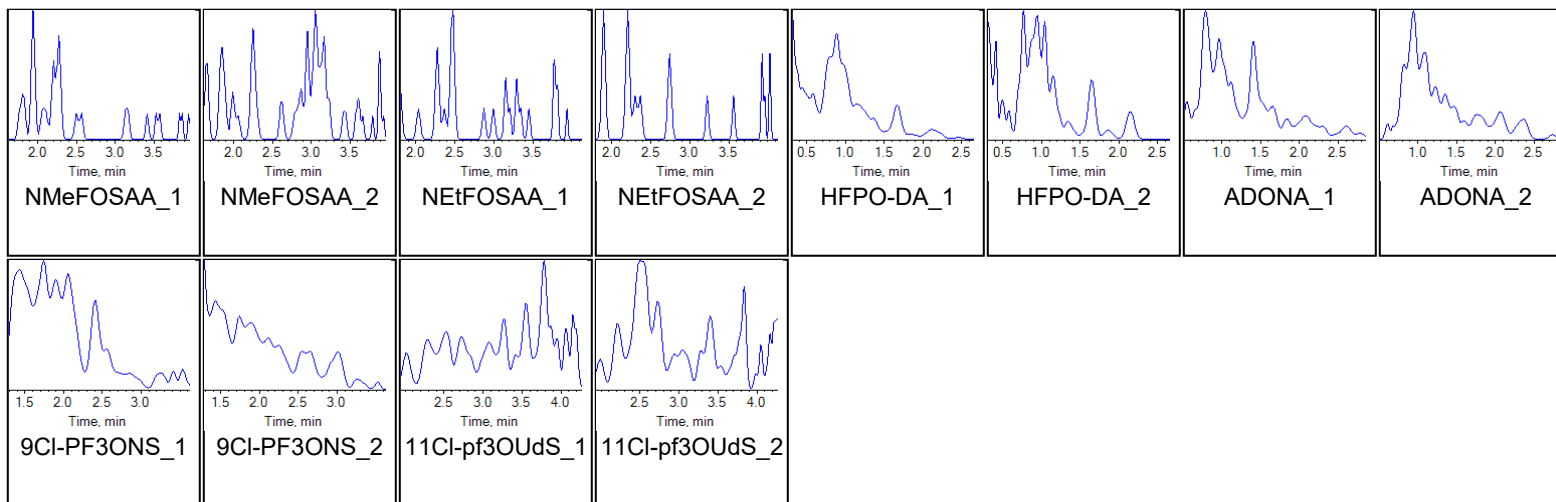
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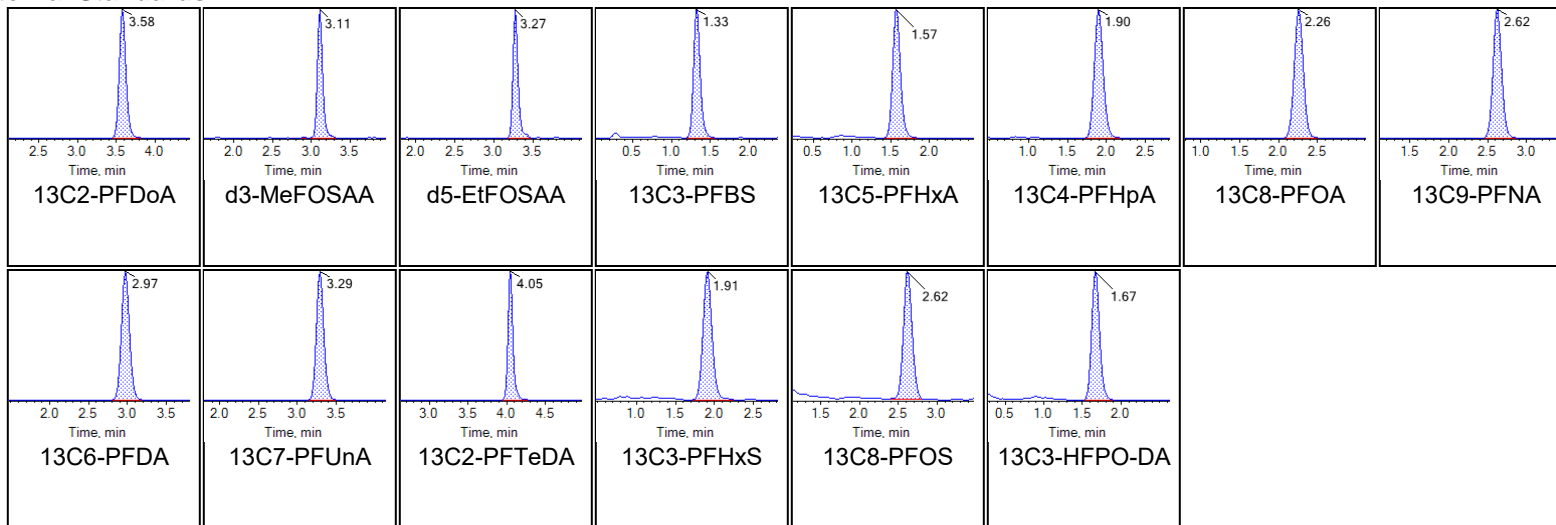


Chromatogram Report

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Internal Standards:





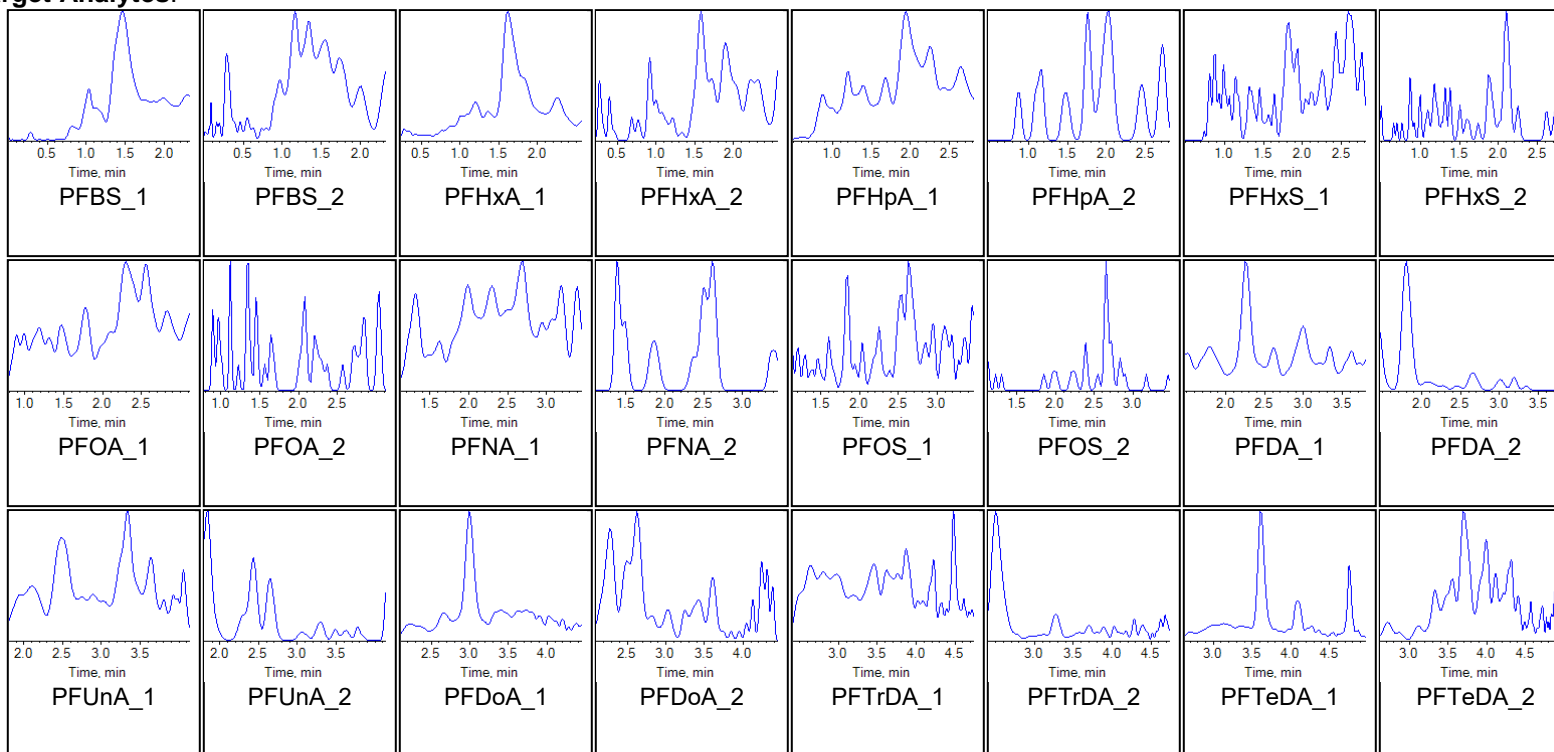
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1655-FS(0)	Injection Vial	6
Sample ID	CBD-AOA-FB03-101320	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:30:25 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

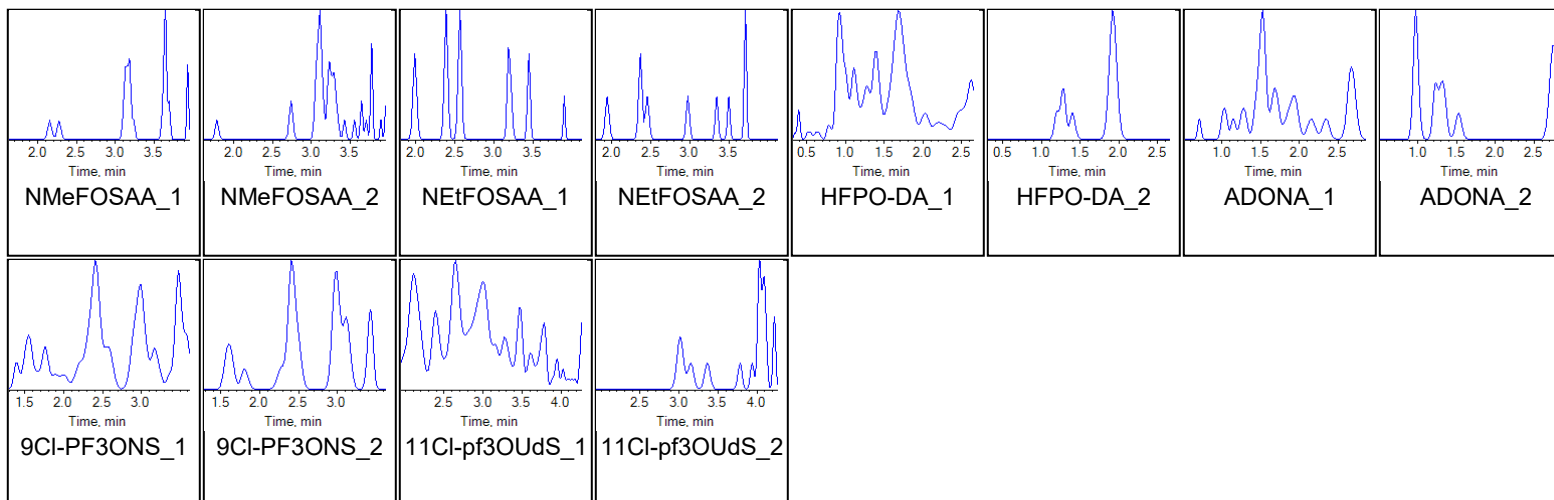
Chromatograms

Target Analytes:

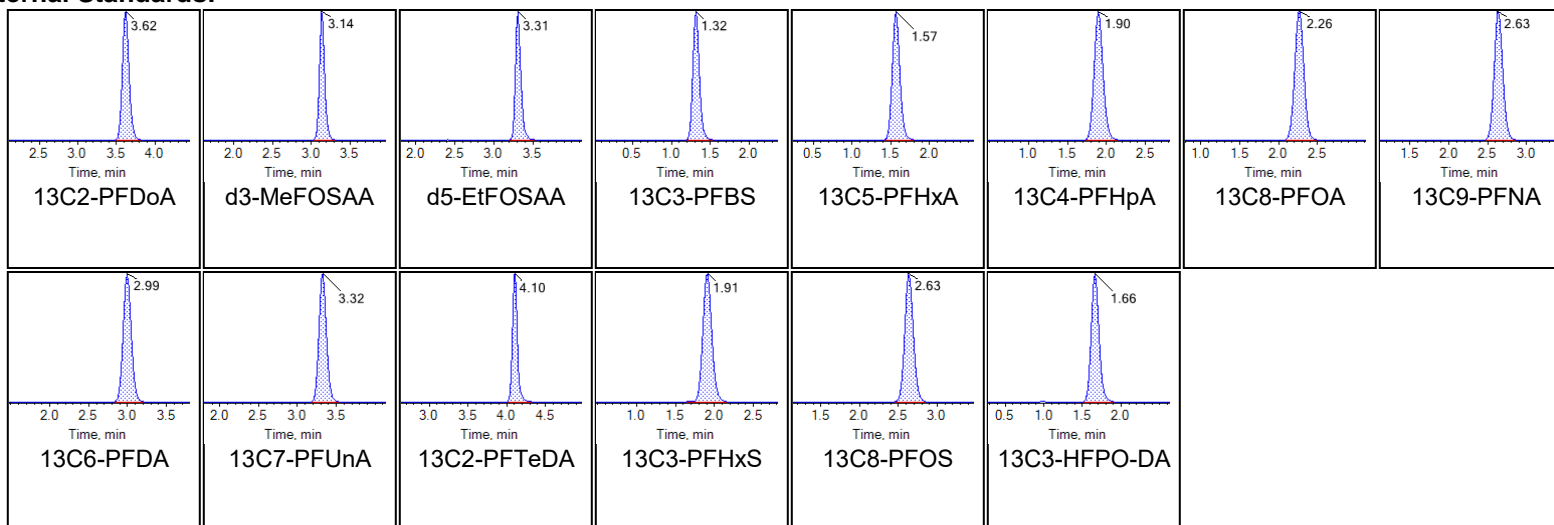




Chromatogram Report

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Internal Standards:





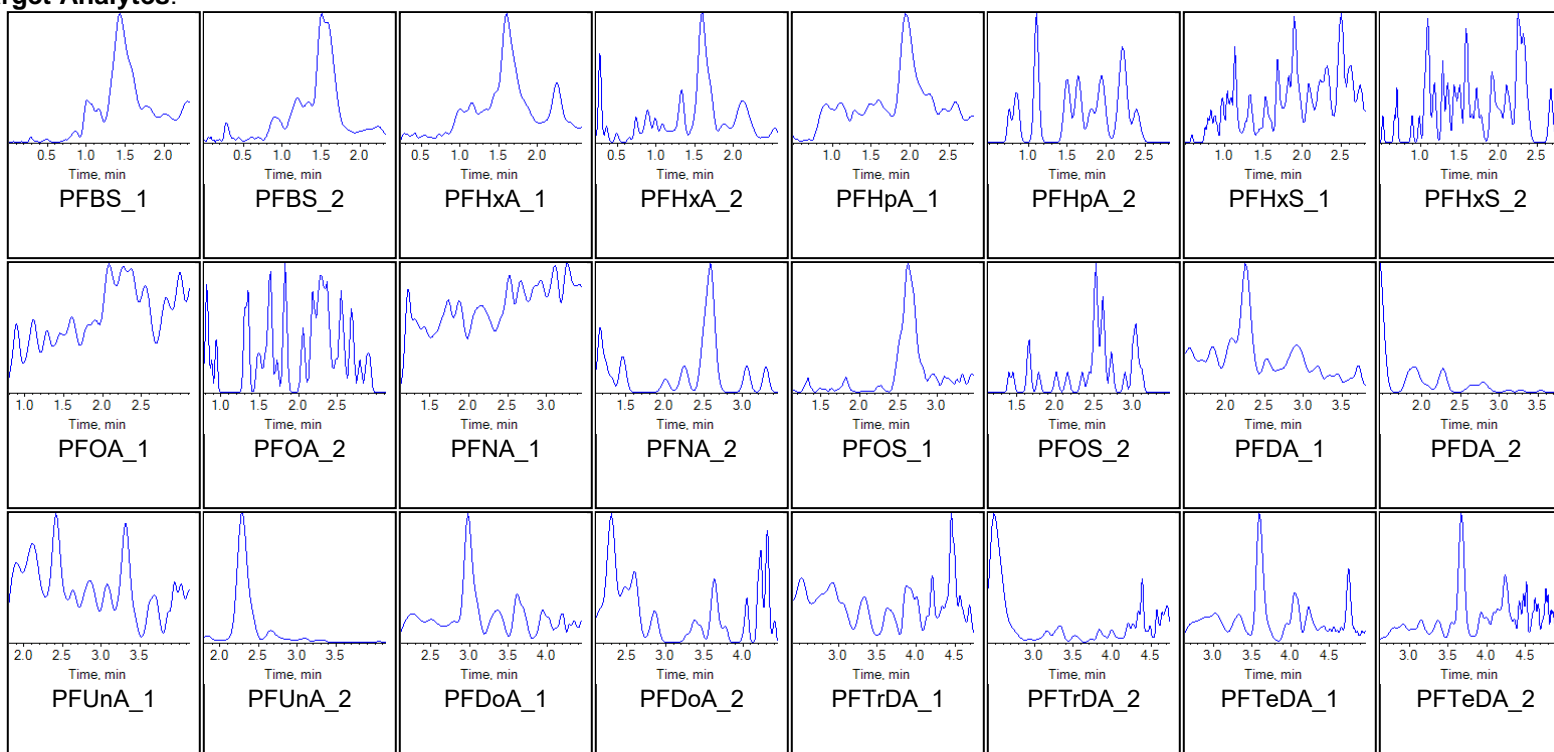
Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Sample Name	G1656-FS(0)	Injection Vial	7
Sample ID	CBD-AOA-EB01-101320-SW	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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Acquisition Method	5-369.dam	Result Table	20-1298

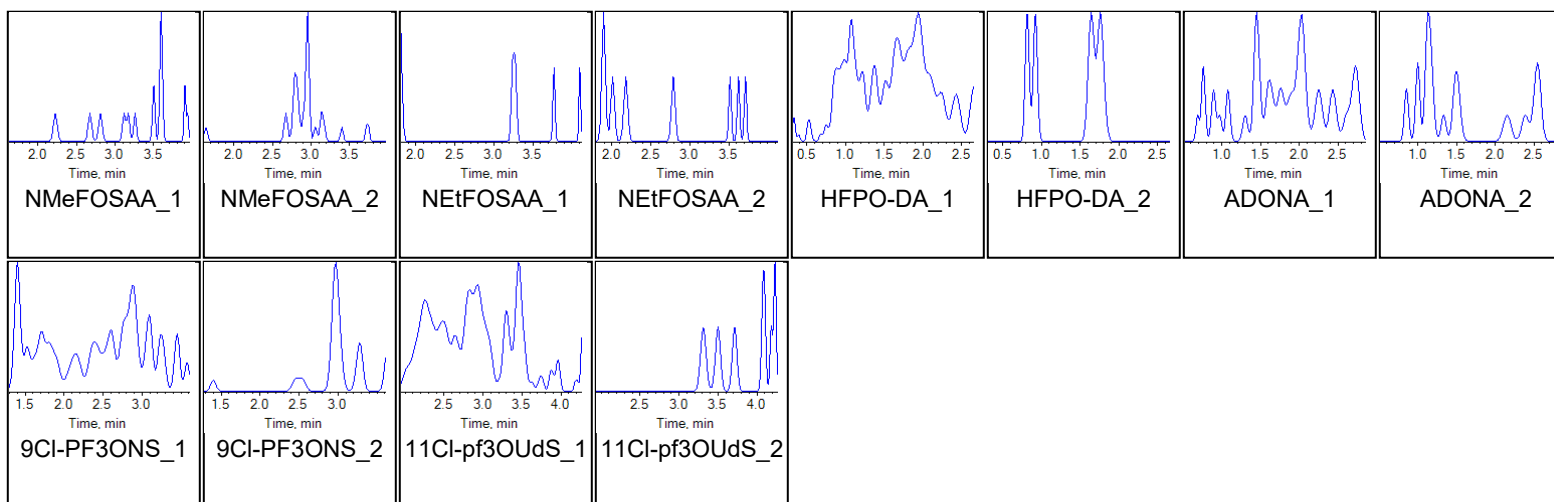
Chromatograms

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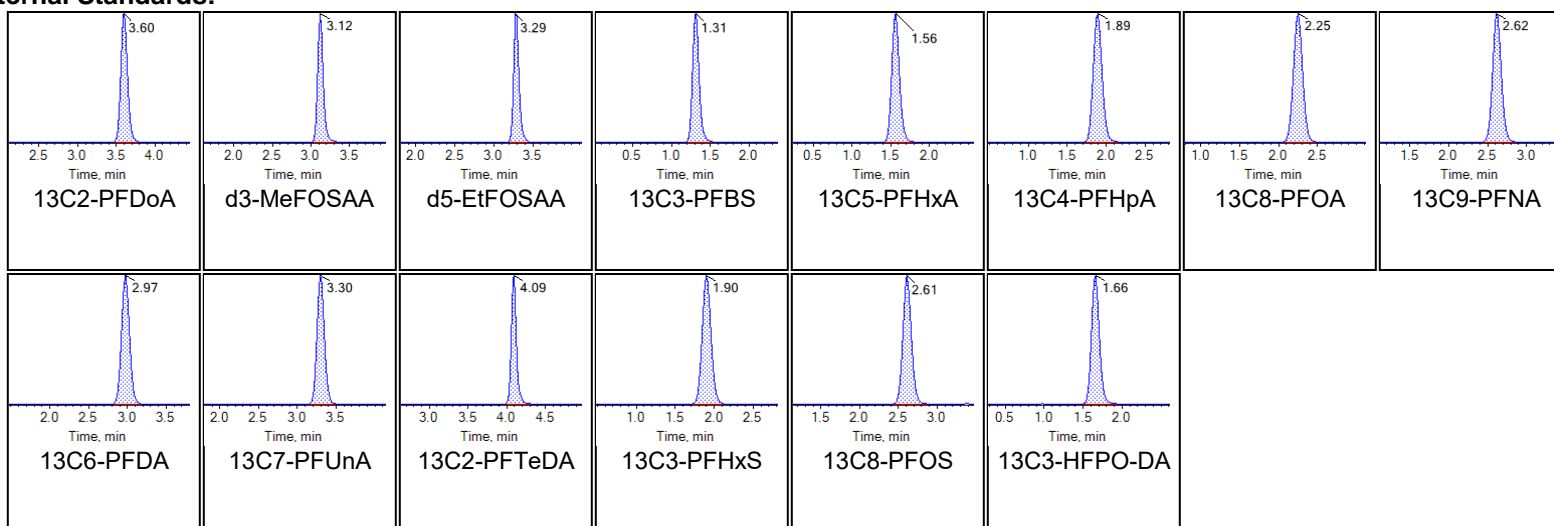




Chromatogram Report

Created with Analyst Reporter
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Internal Standards:





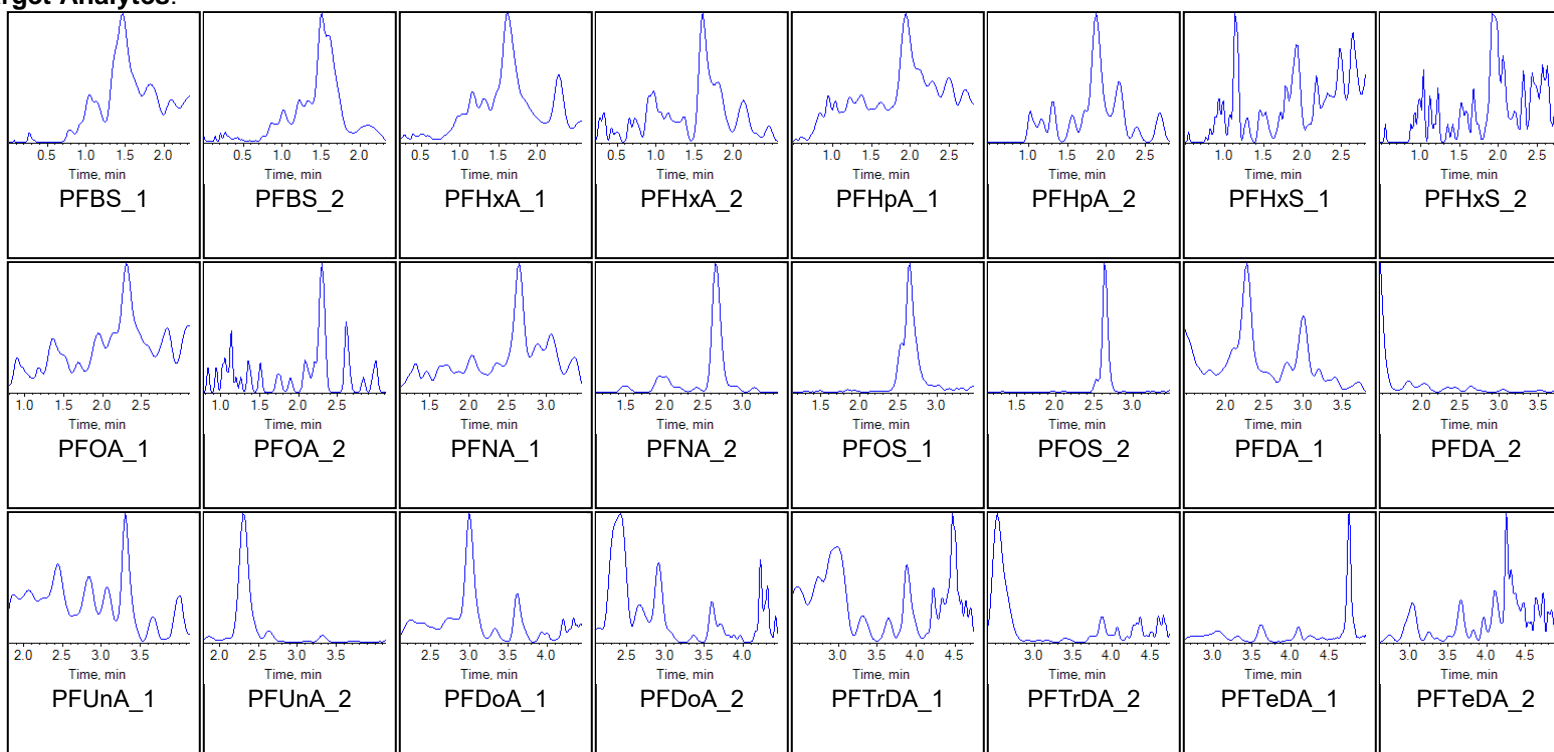
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1657-FS(0)	Injection Vial	8
Sample ID	CBD-AOA-EB01-101320-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:51:22 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

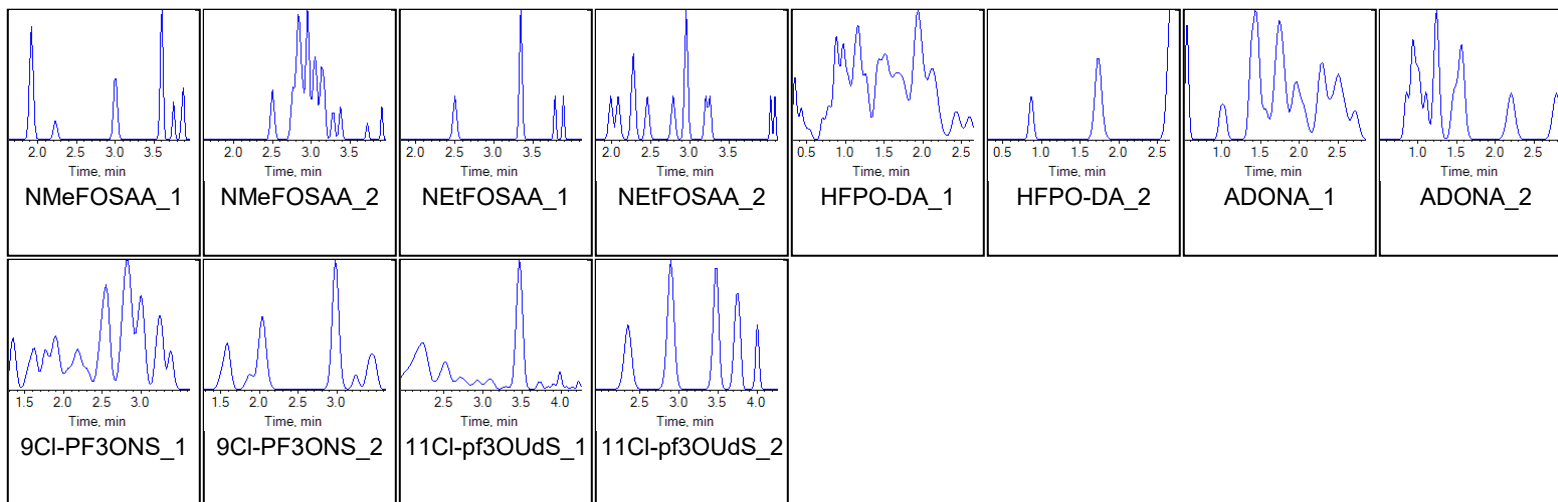
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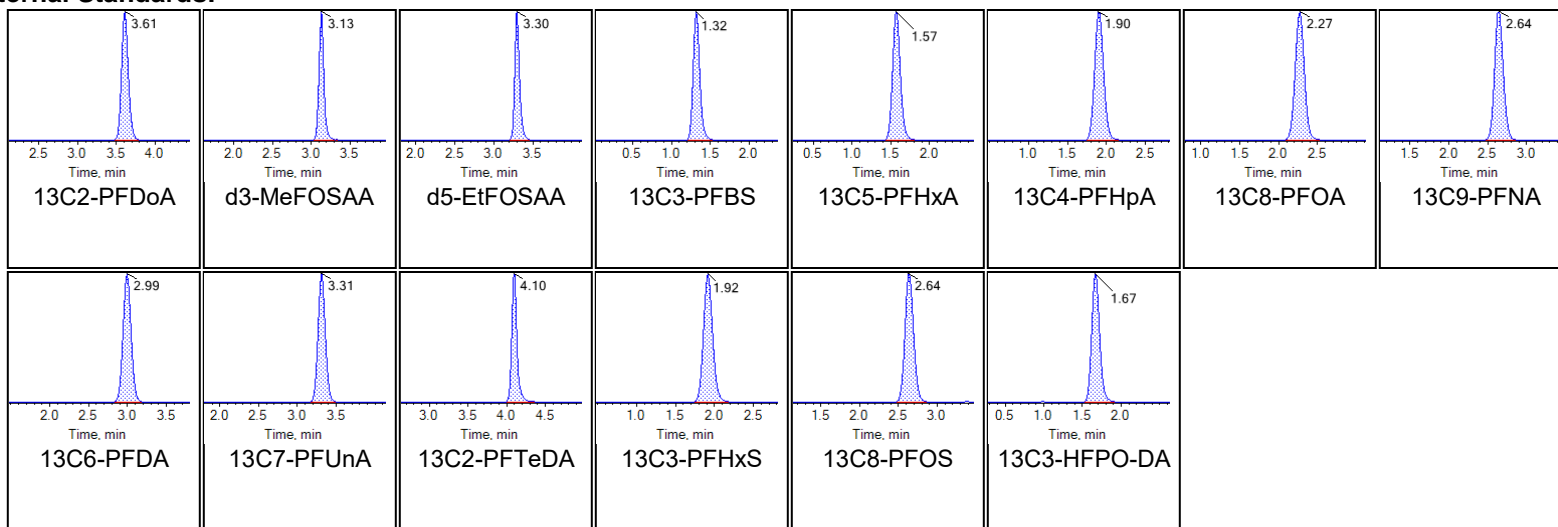


Chromatogram Report

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Internal Standards:





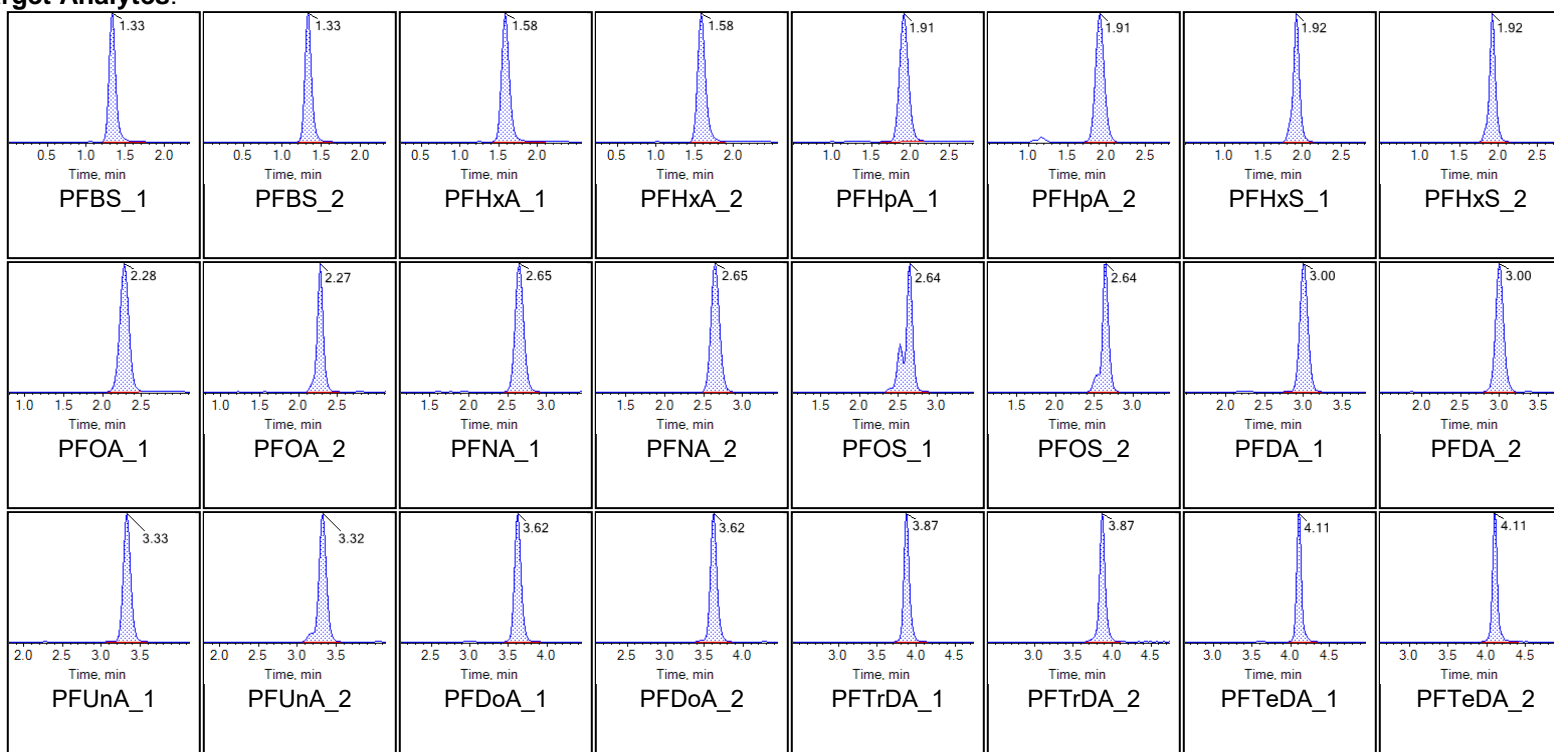
Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Sample Name	LD76 CCV	Injection Vial	10
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
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Acquisition Method	5-369.dam	Result Table	20-1298

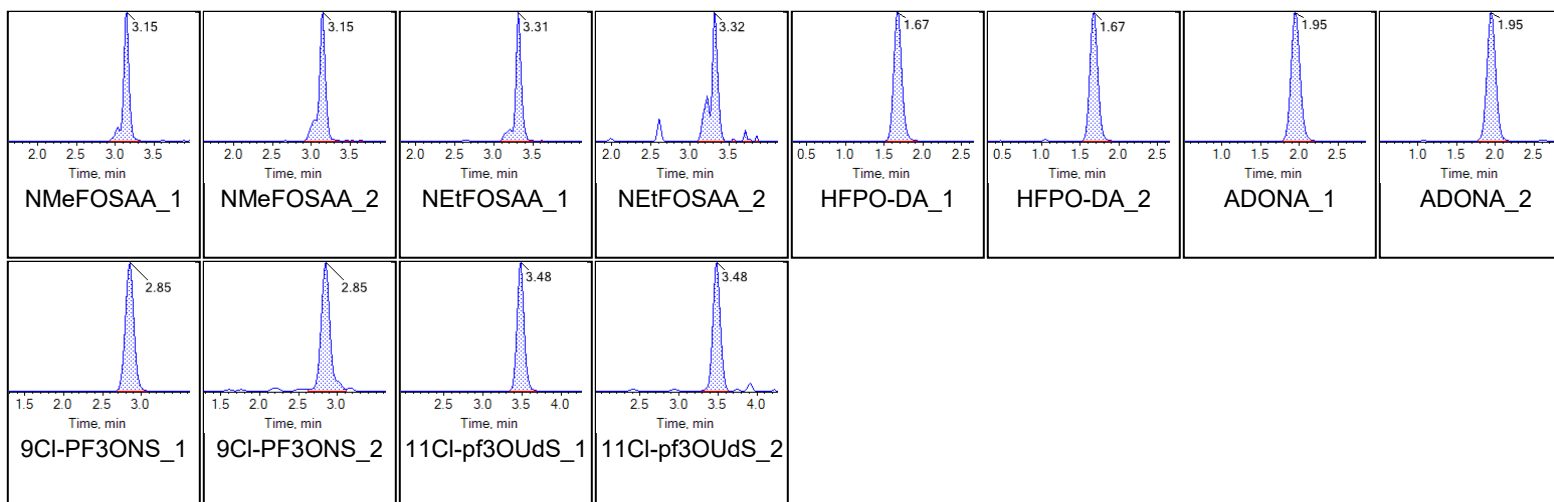
Chromatograms

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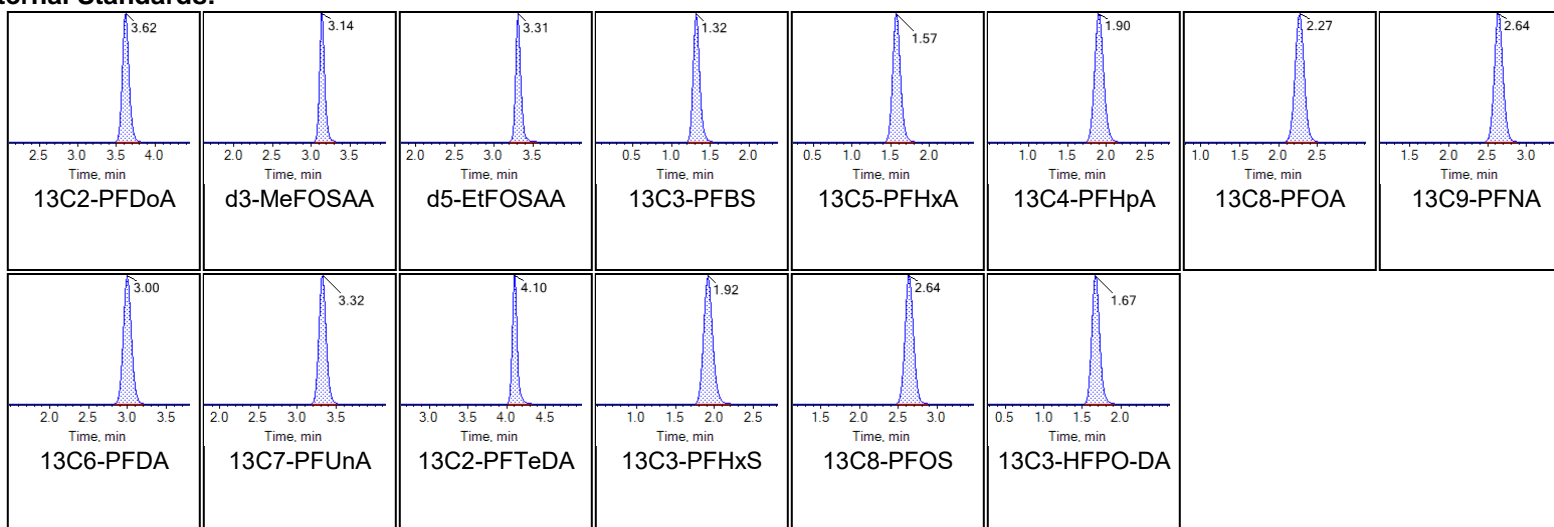




Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





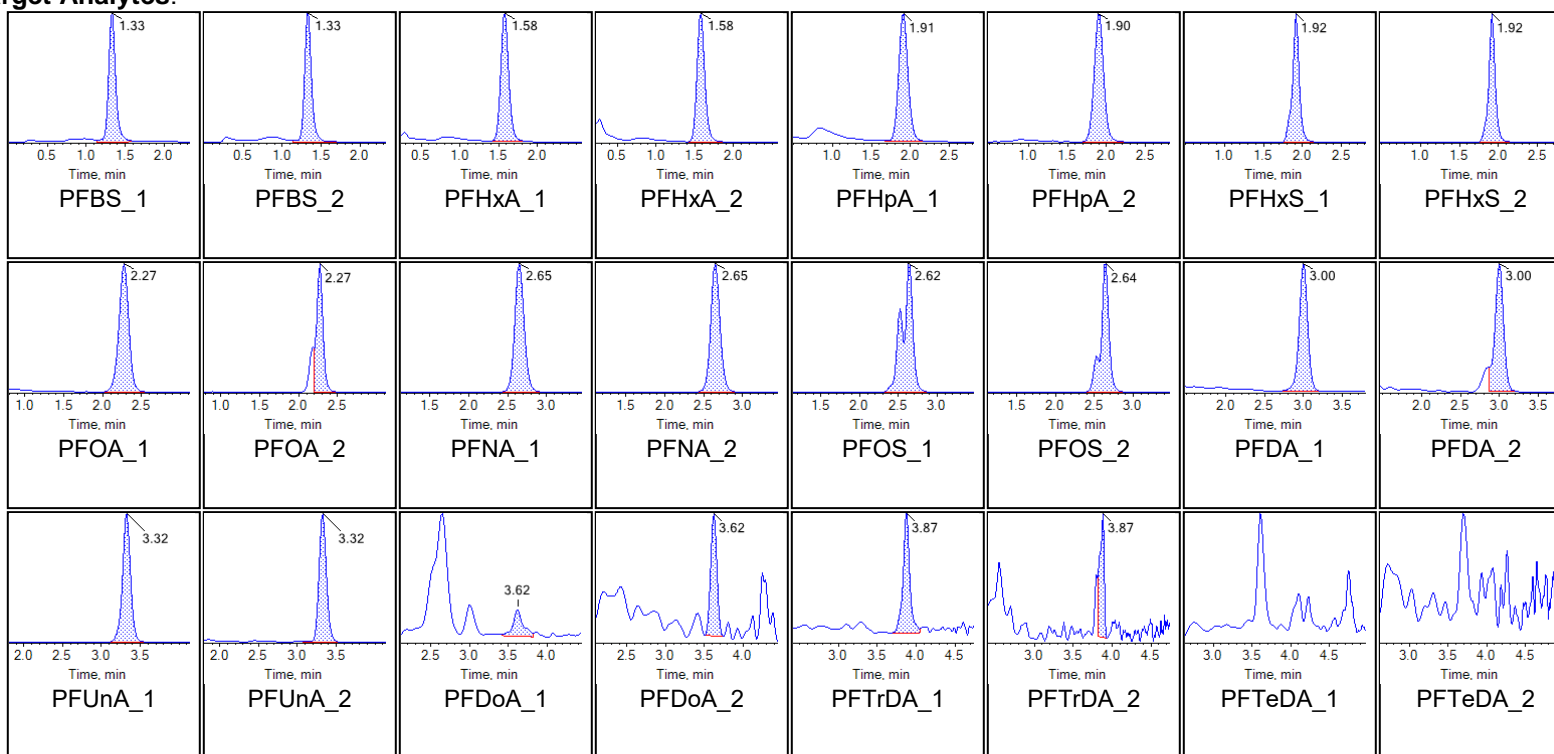
Chromatogram Report

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Sample Name	G1644-FS(0)	Injection Vial	11
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:22:46 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

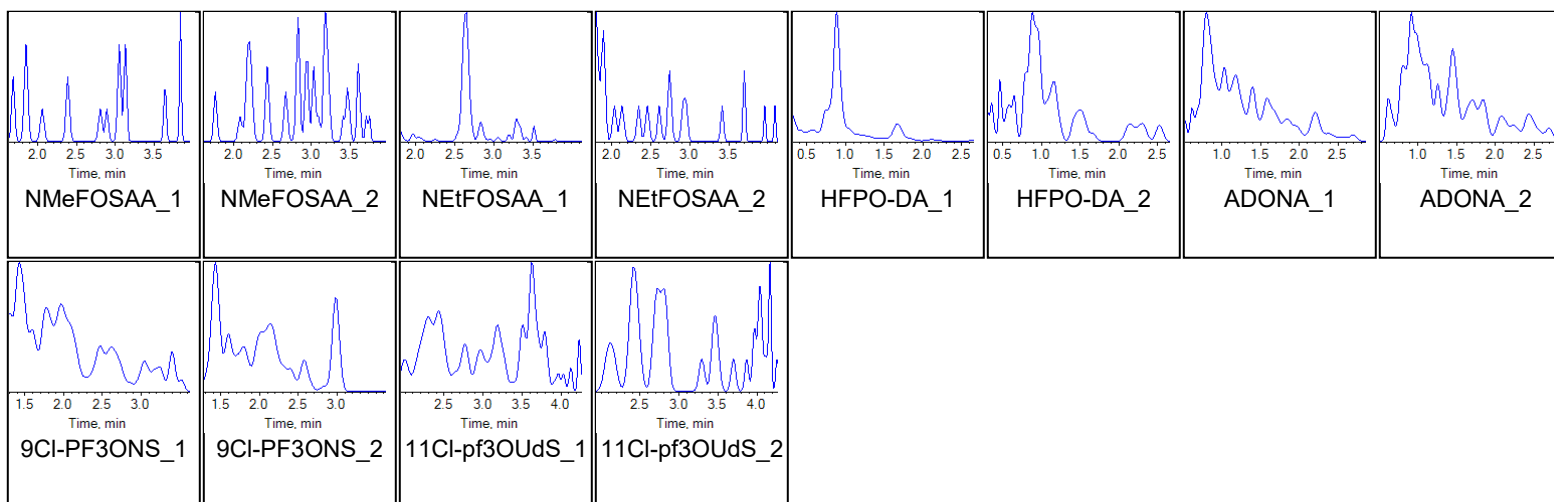
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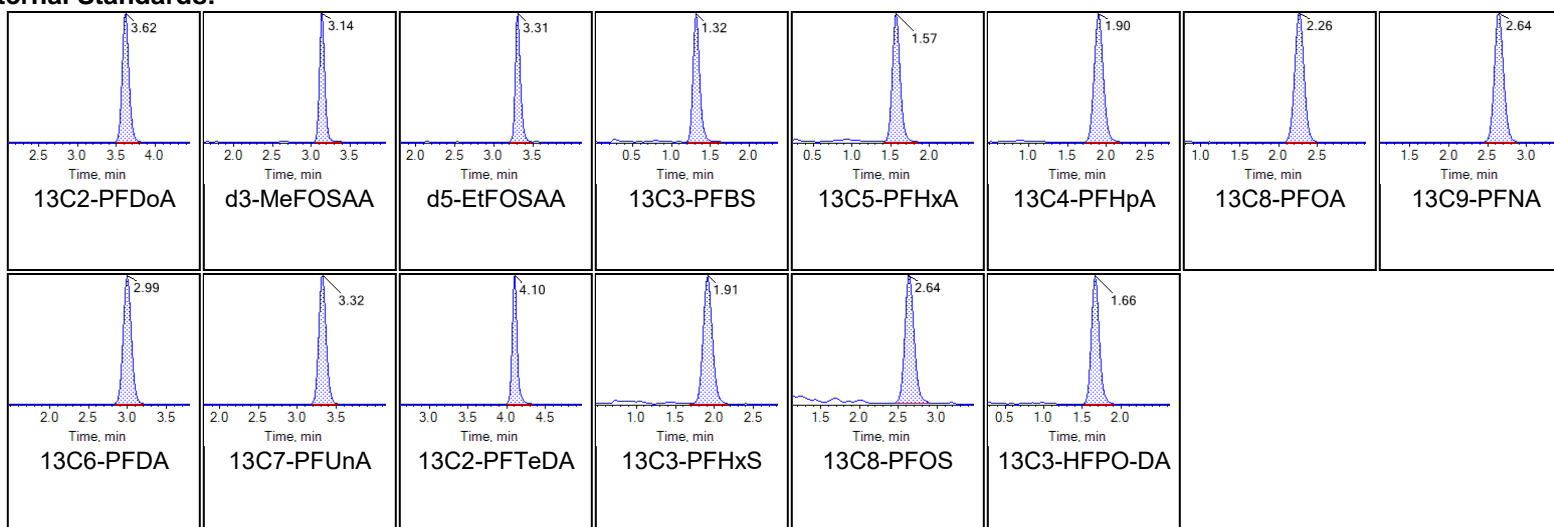




Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





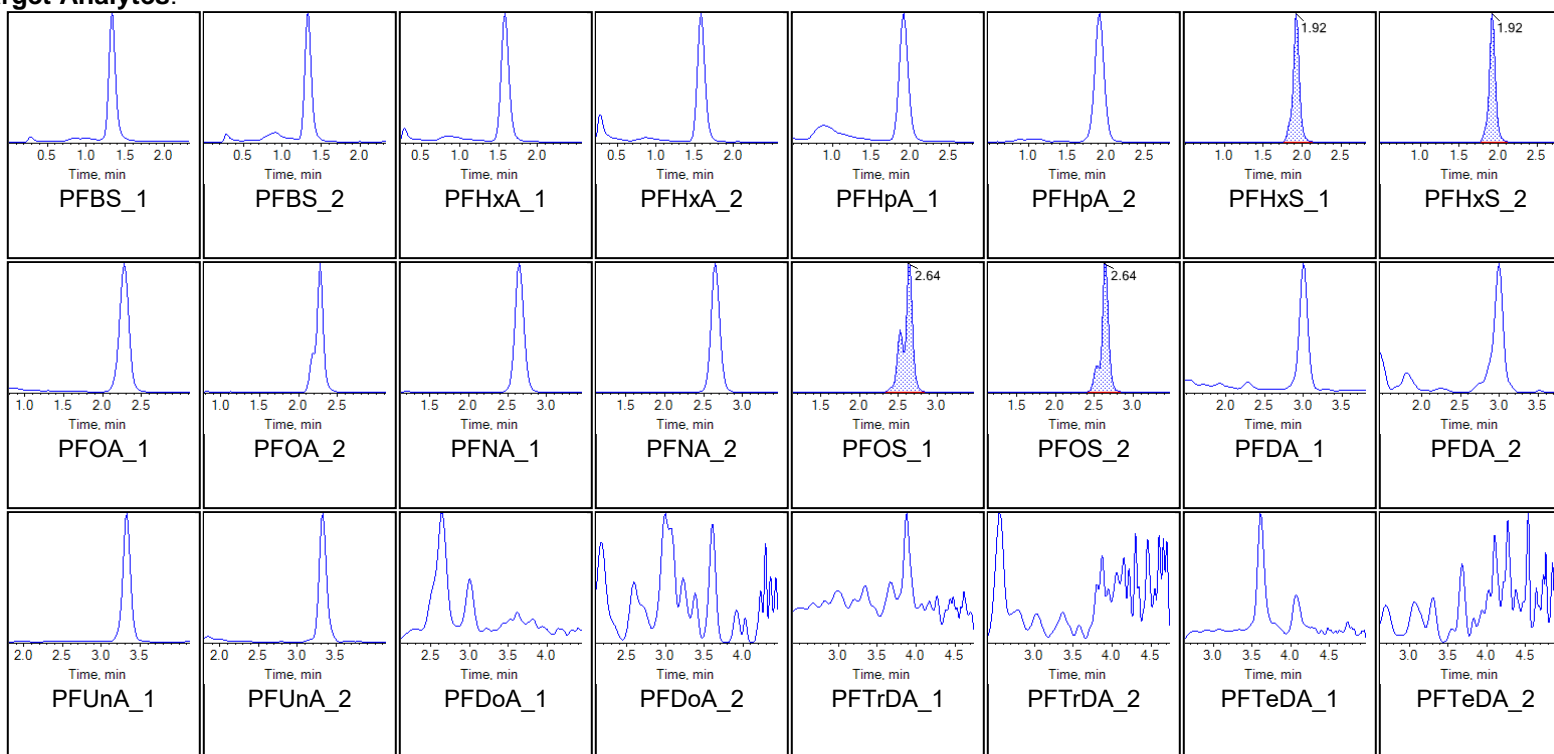
Chromatogram Report

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Sample Name	G1644-FS-D(3)	Injection Vial	12
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:33:14 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

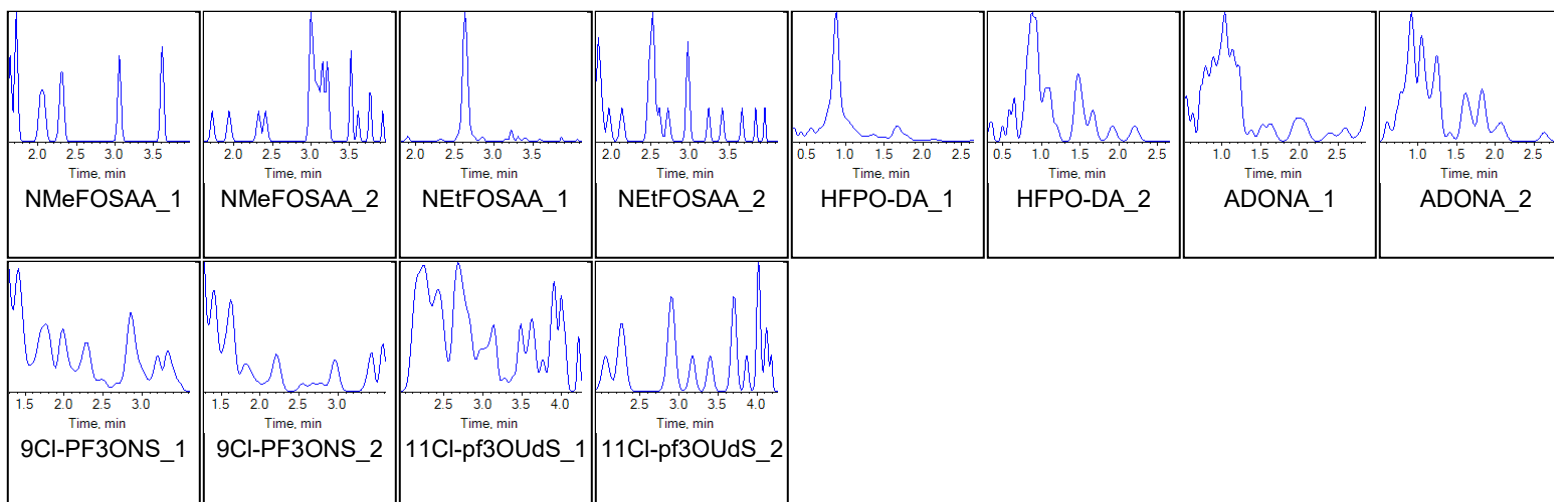
Chromatograms

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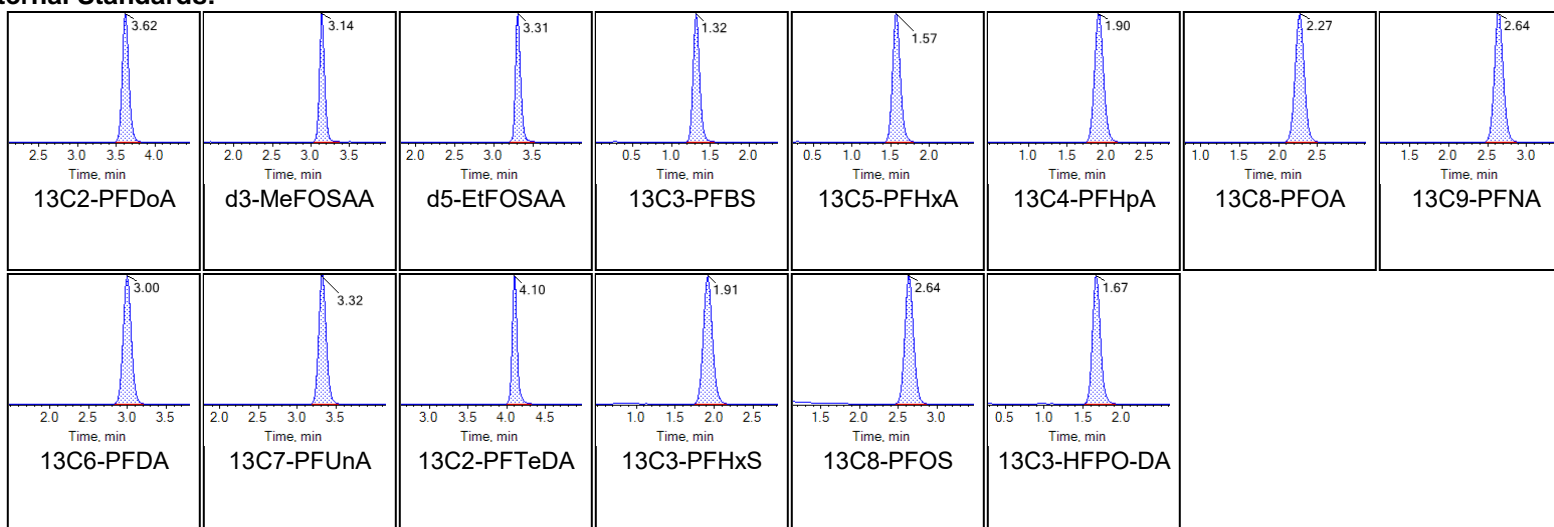




Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





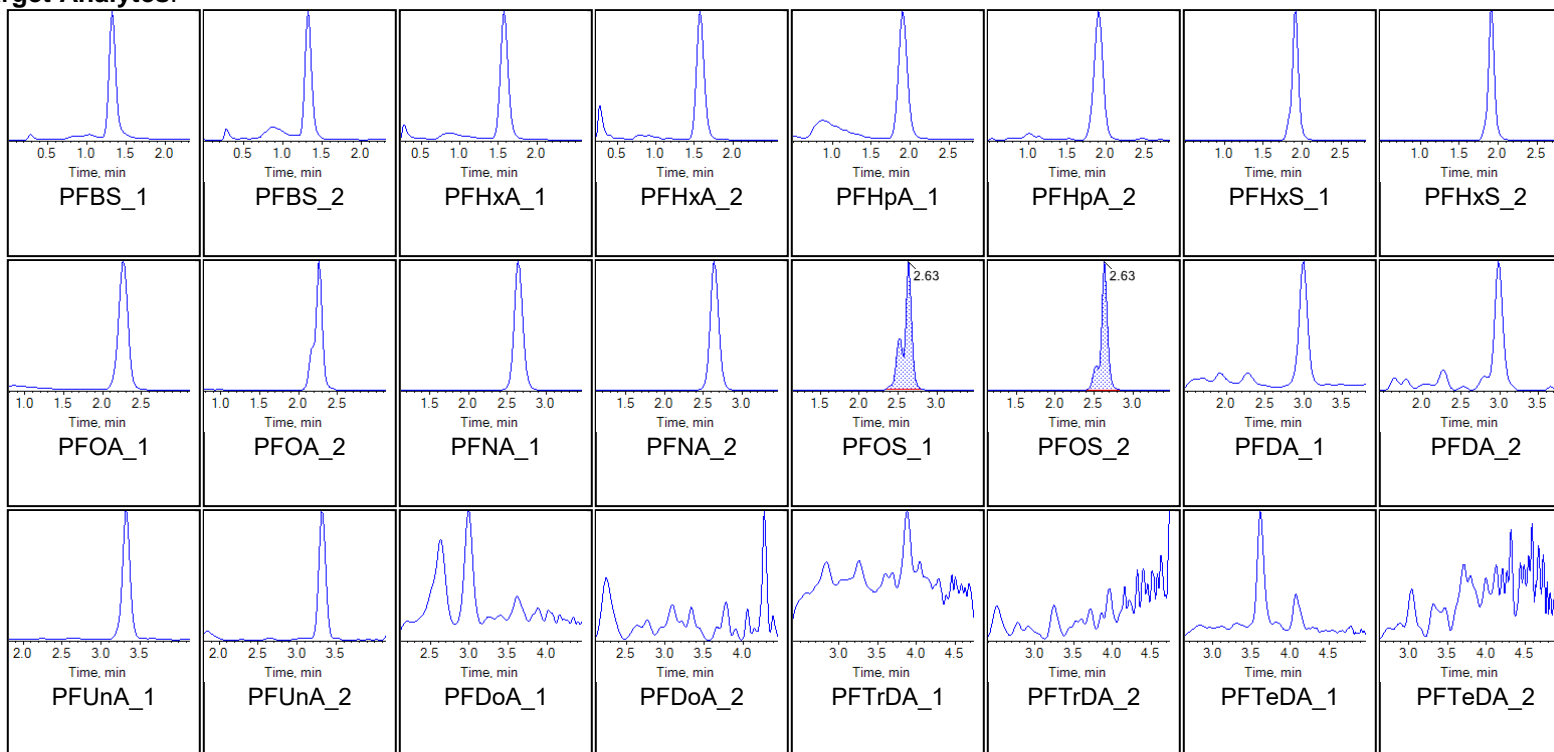
Chromatogram Report

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Sample Name	G1644-FS-D(5)	Injection Vial	13
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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Acquisition Method	5-369.dam	Result Table	20-1298

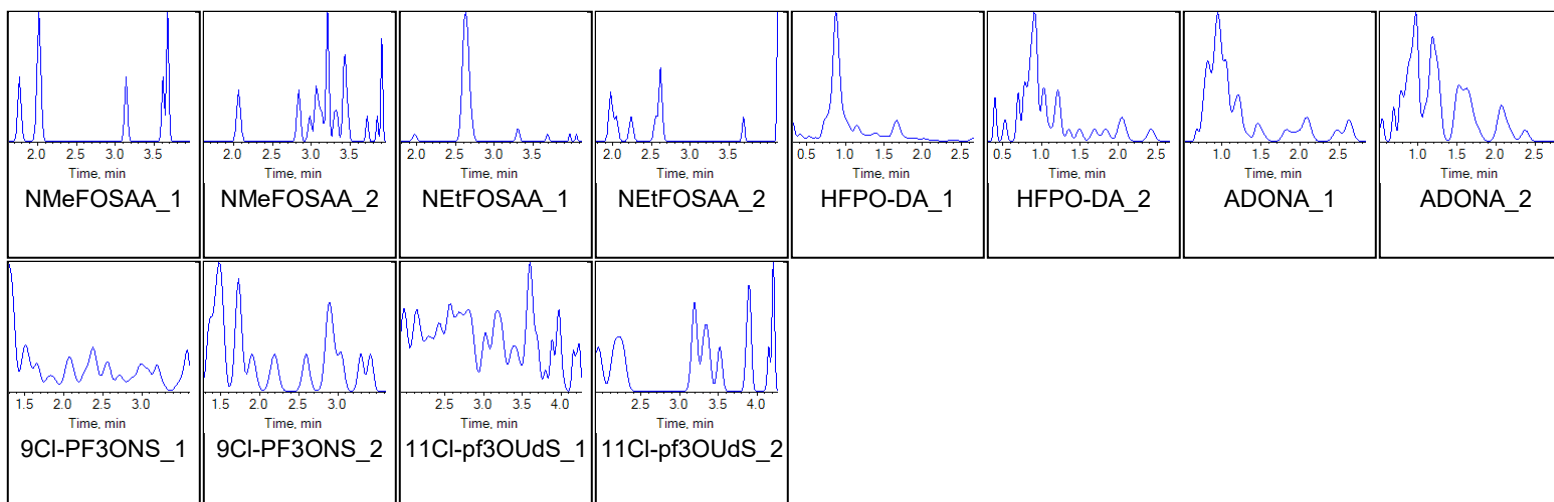
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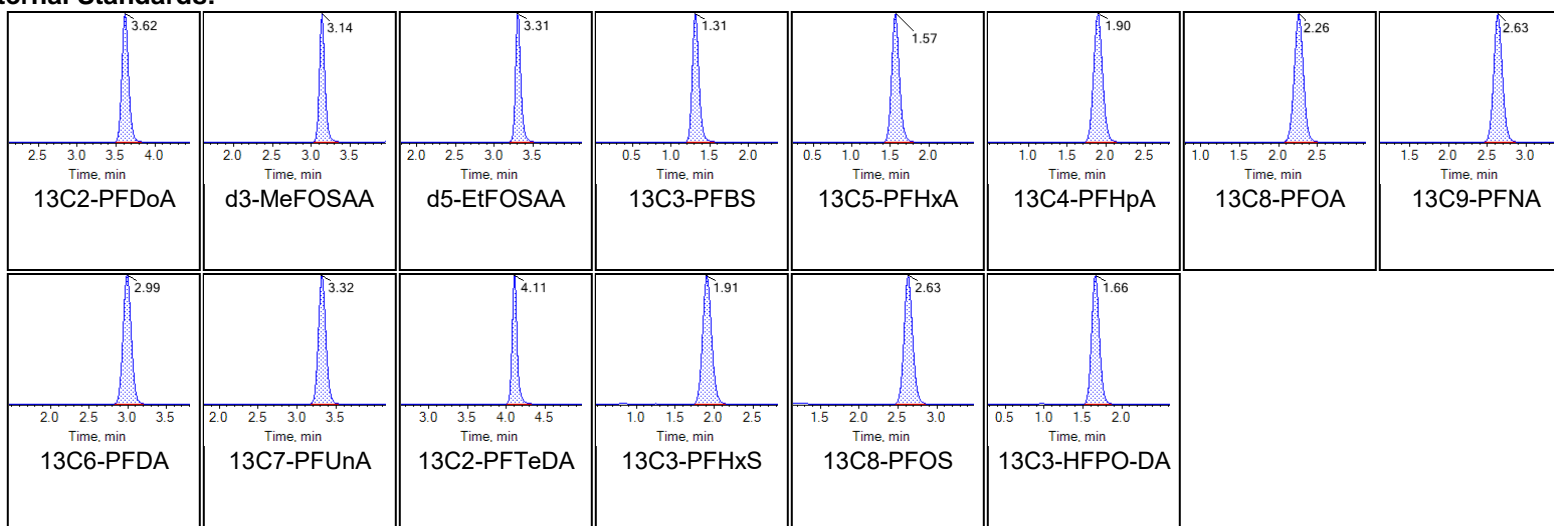




Chromatogram Report

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Internal Standards:





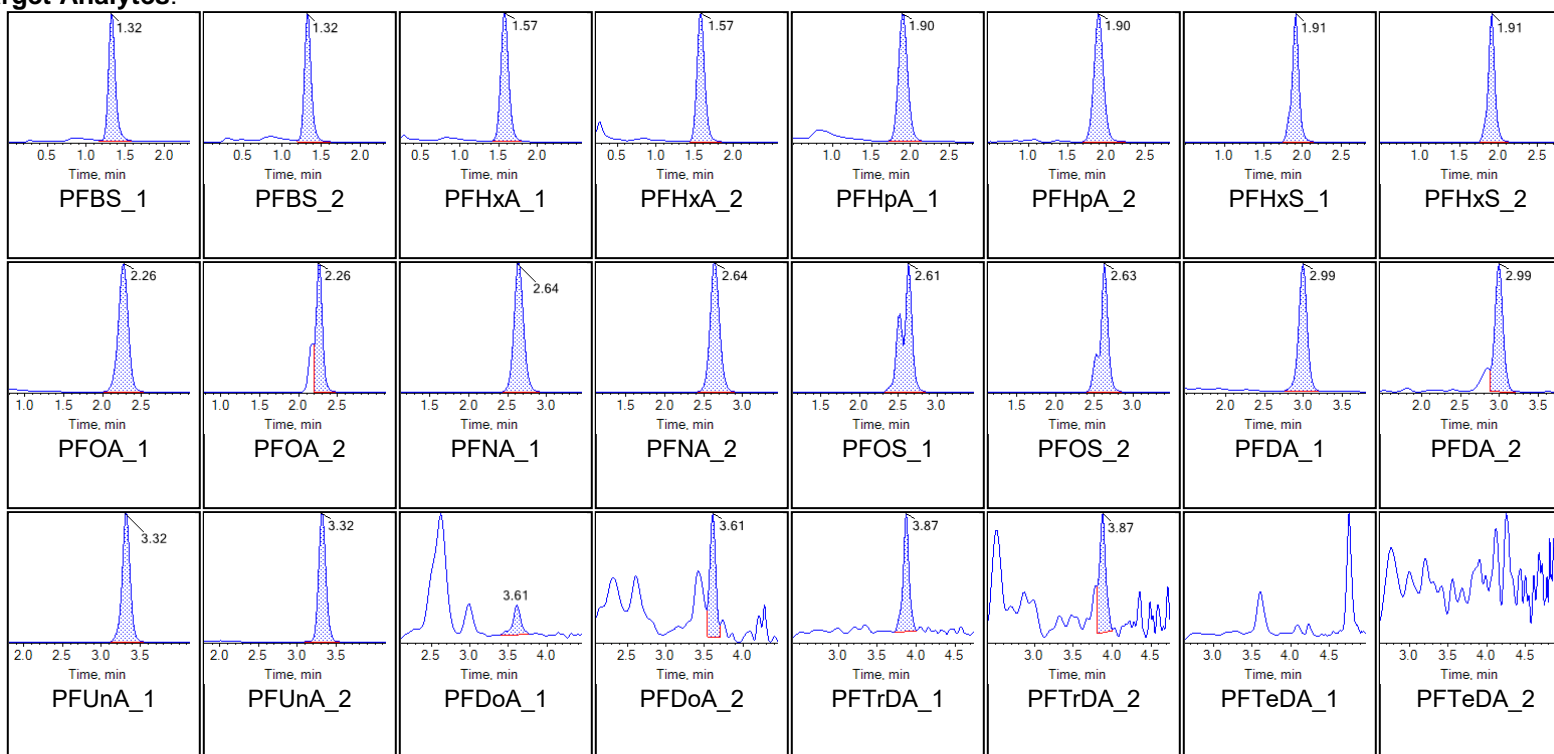
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1645-FS(0)	Injection Vial	14
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:54:10 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

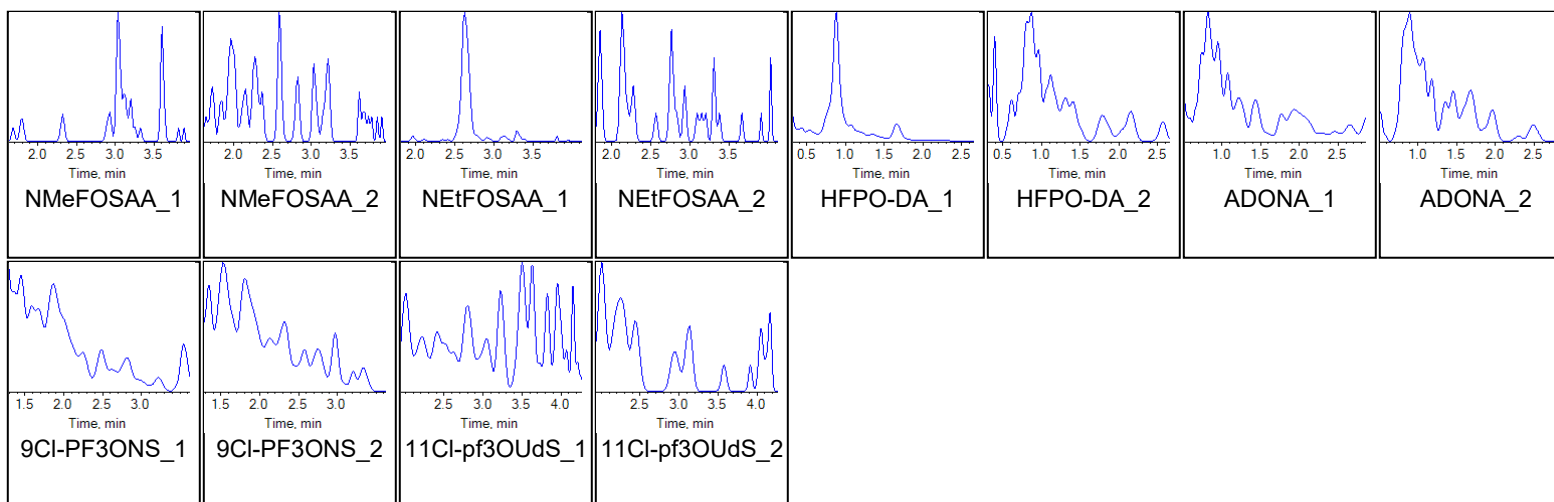
Chromatograms

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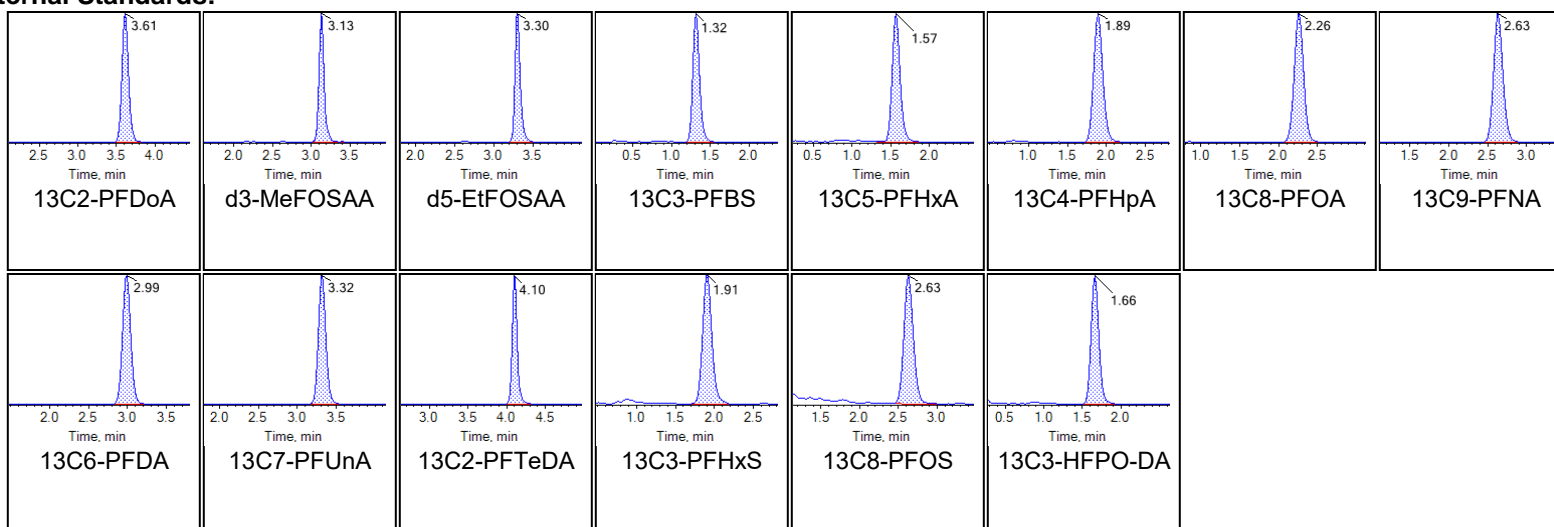




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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





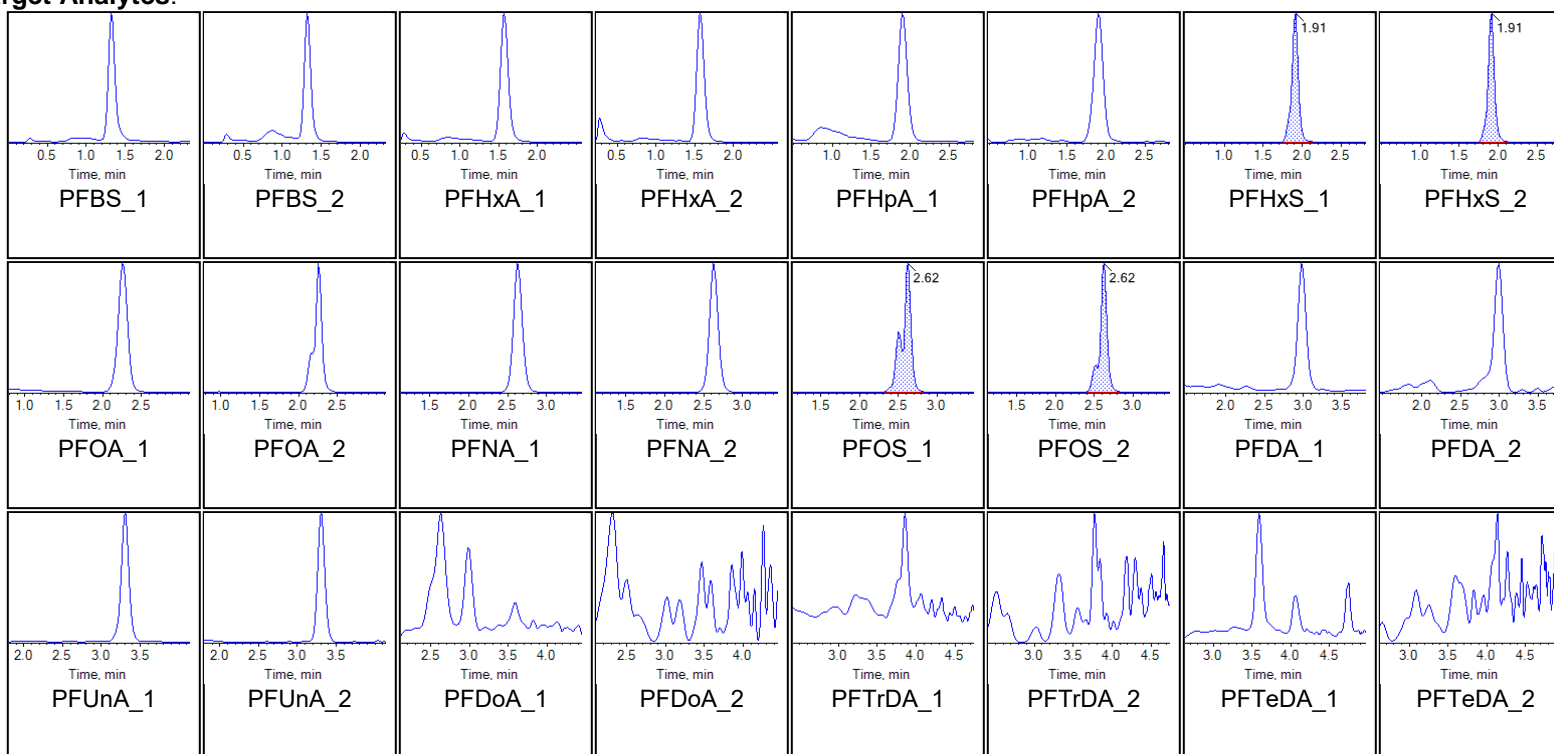
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1645-FS-D(3)	Injection Vial	15
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:04:40 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

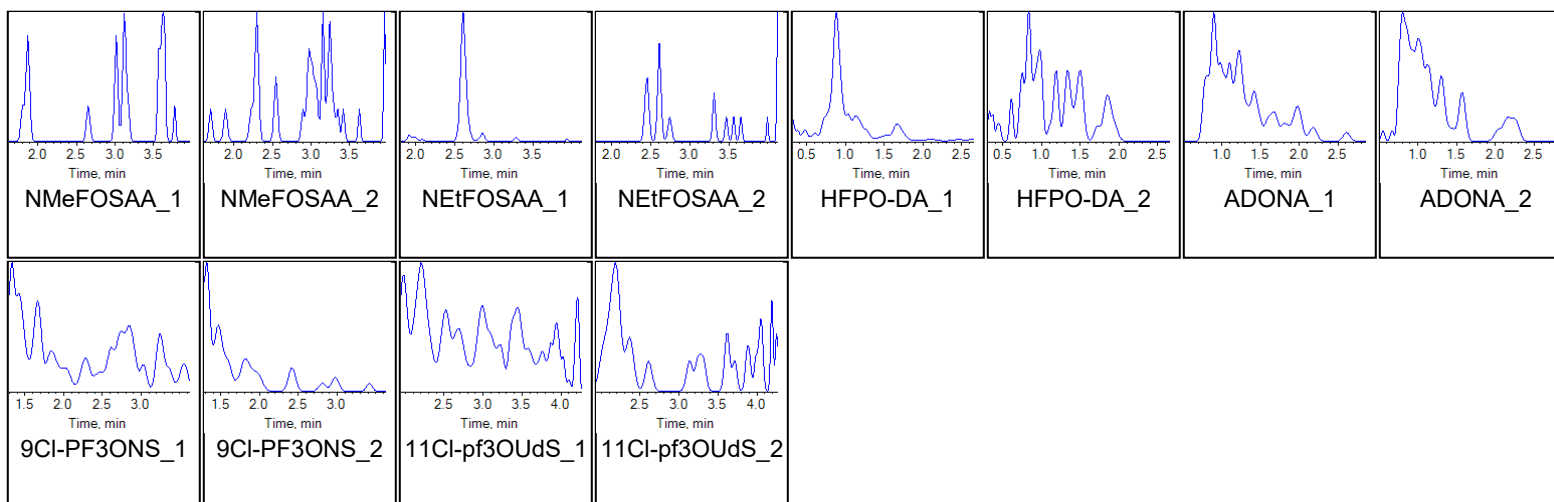
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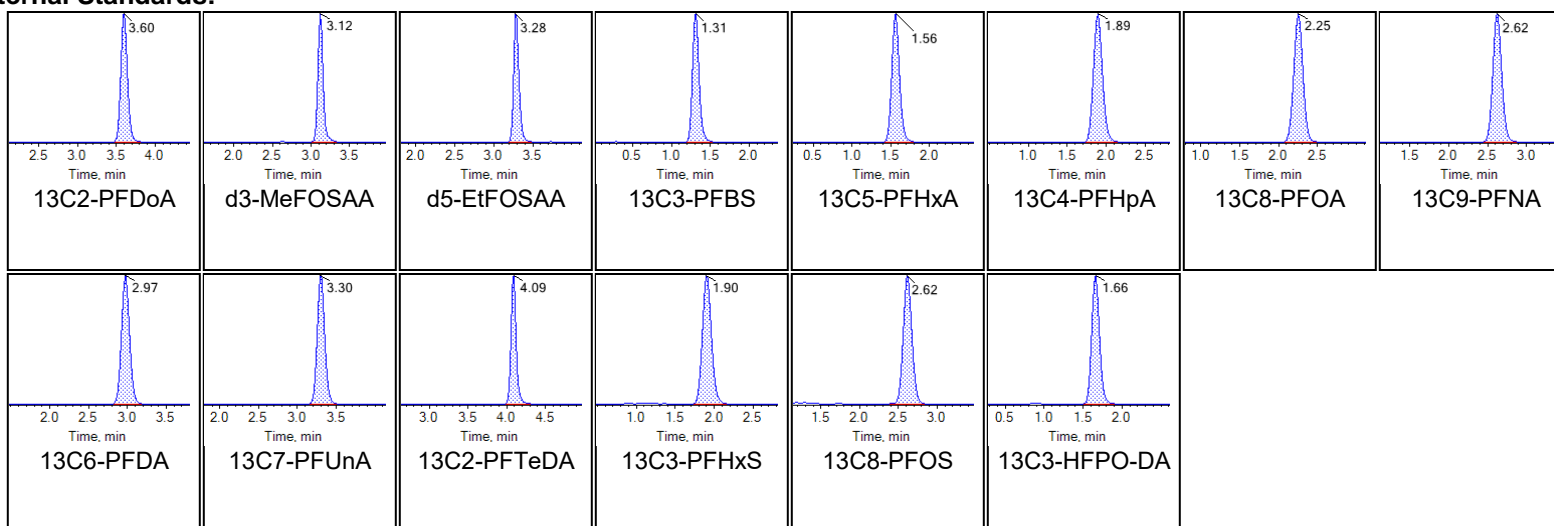


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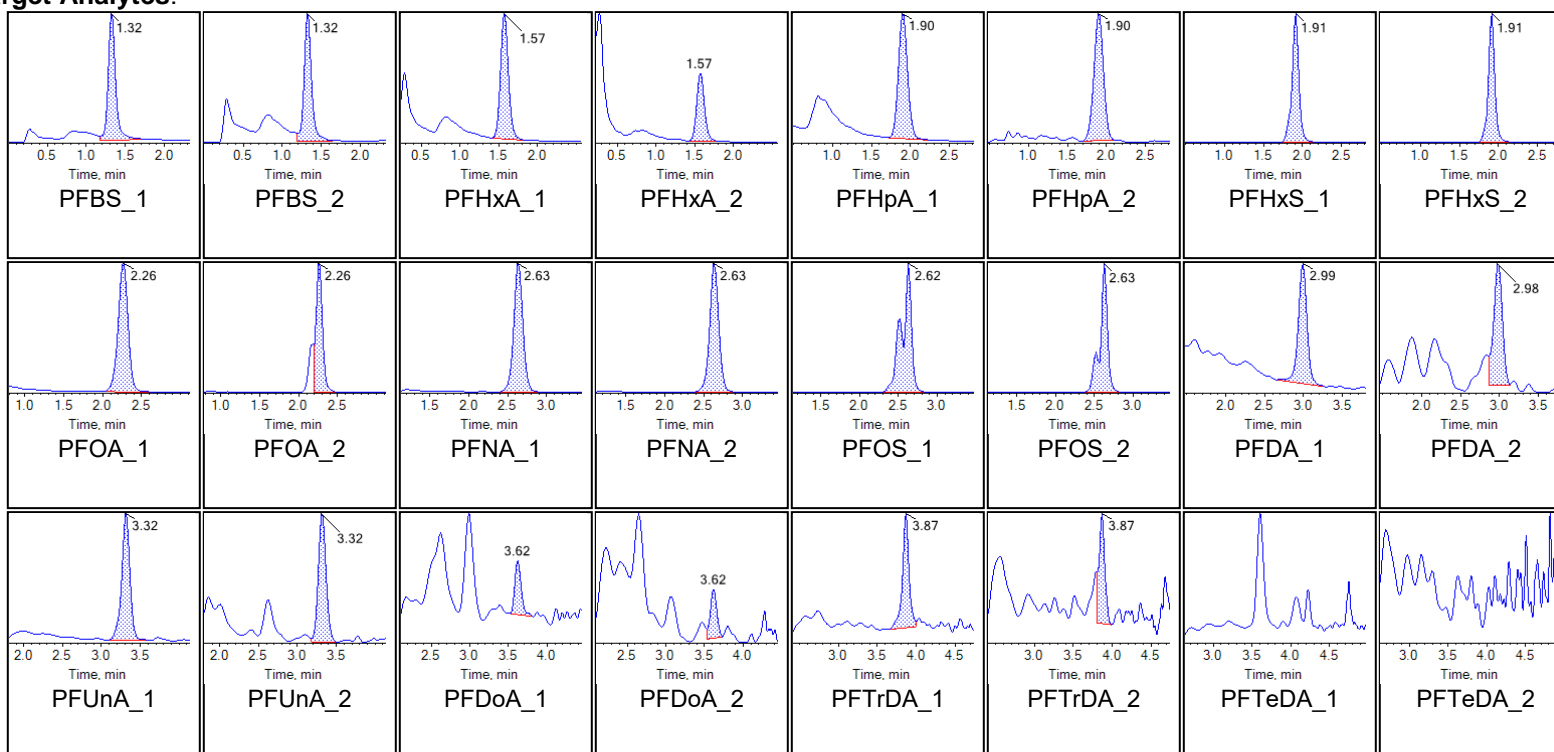
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Printed: 04/11/2020 5:08:23 PM

Sample Name	G1646-FS(0)	Injection Vial	17
Sample ID	CBD-AOA-SW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:25:37 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

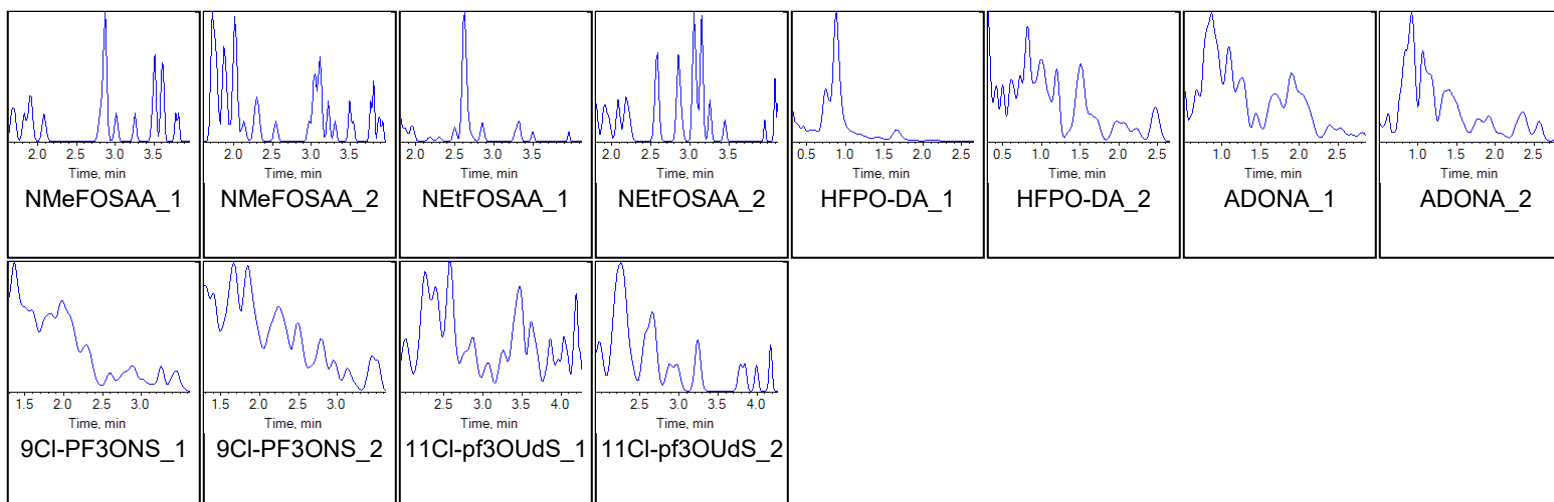
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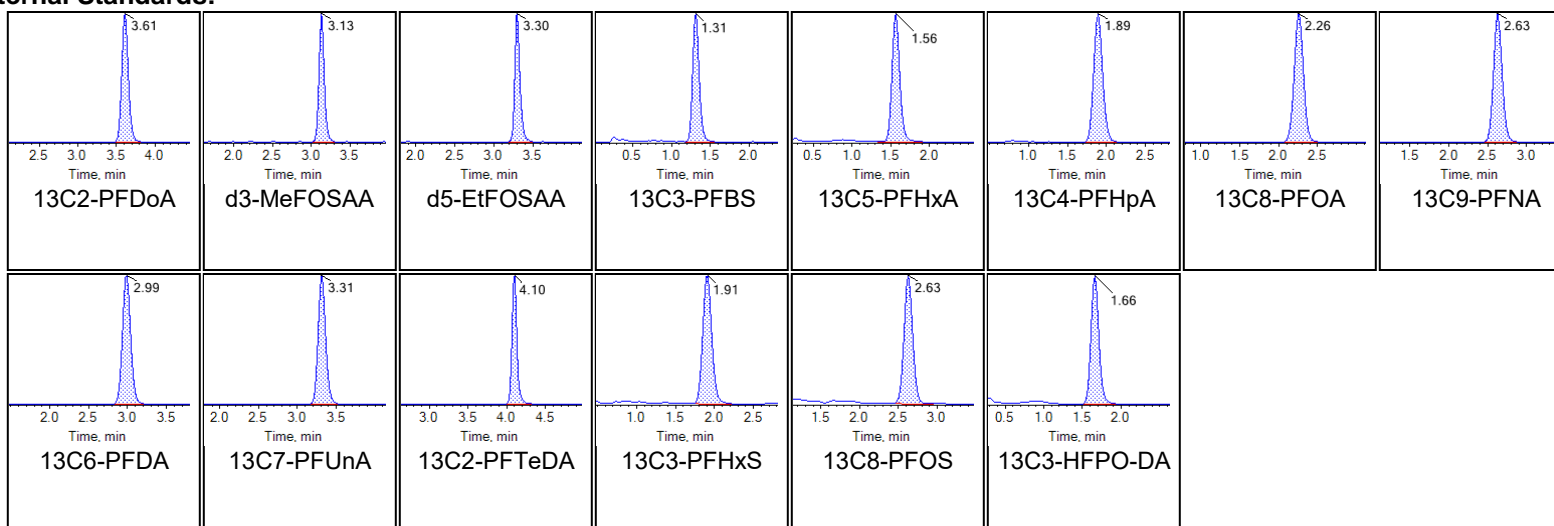




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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





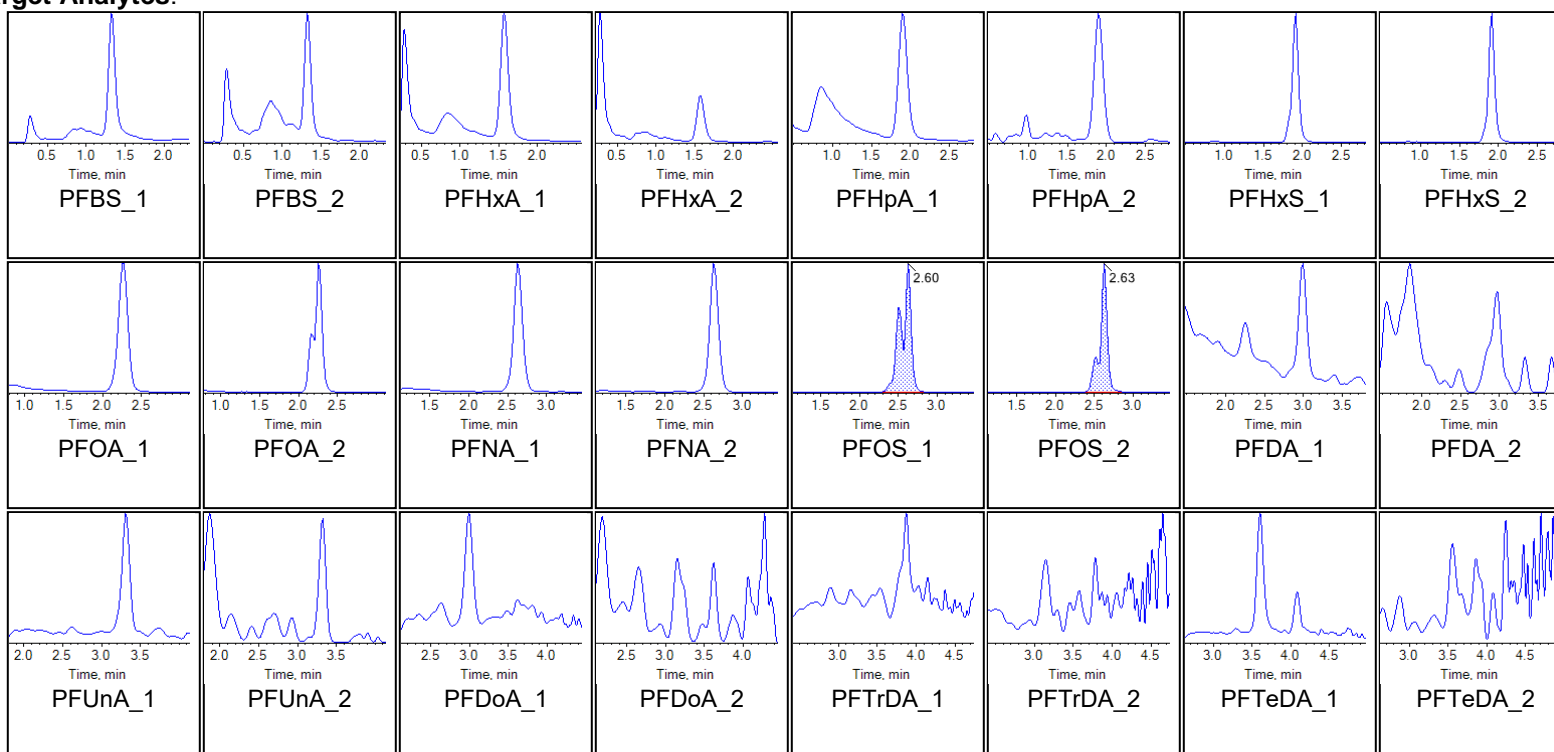
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1646-FS-D(3)	Injection Vial	18
Sample ID	CBD-AOA-SW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:36:05 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

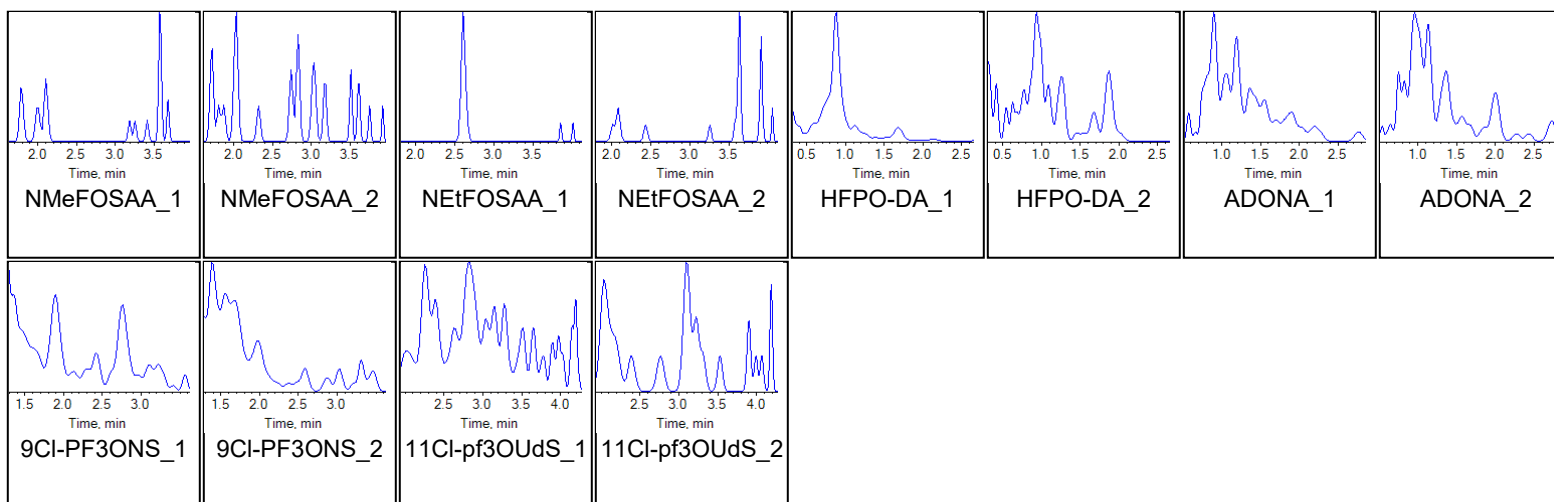
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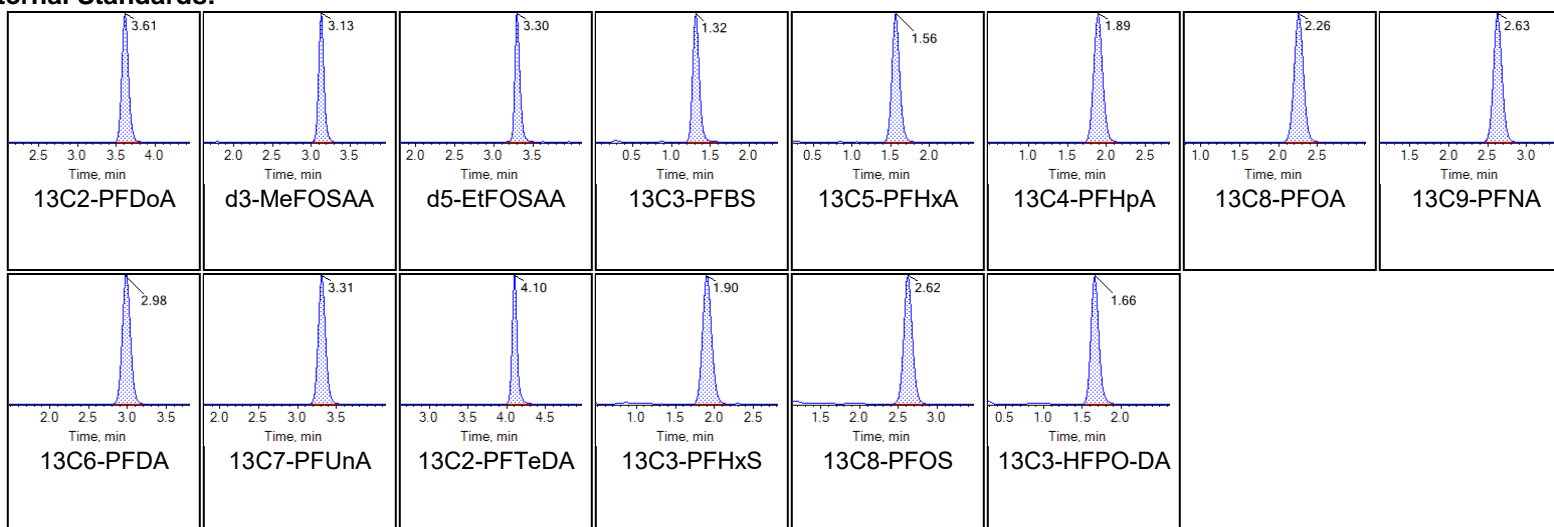


Chromatogram Report

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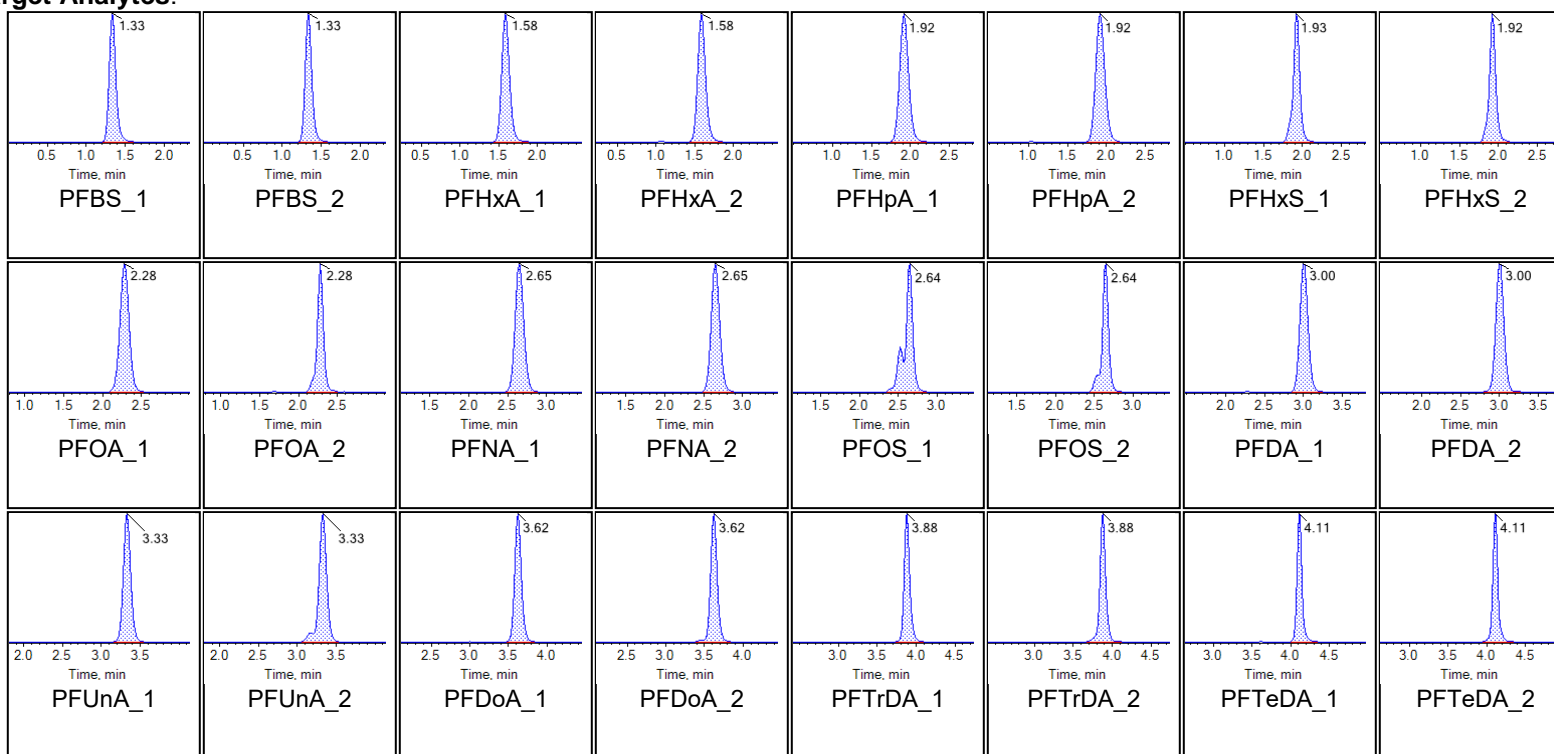
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD77 CCV	Injection Vial	20
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:57:01 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

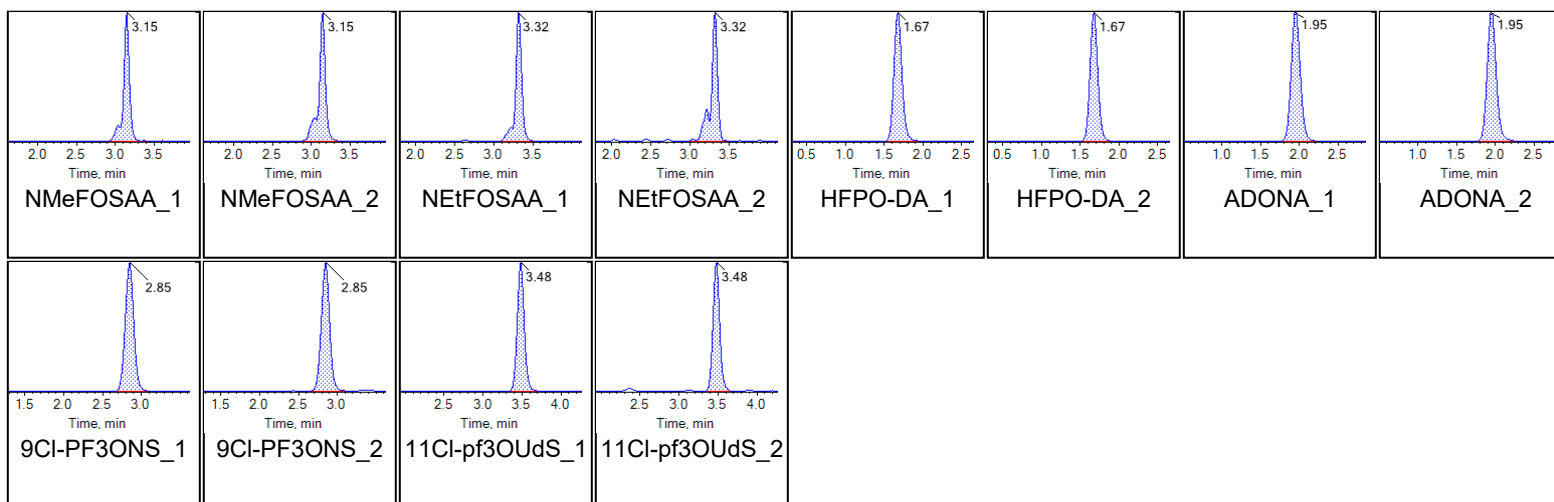
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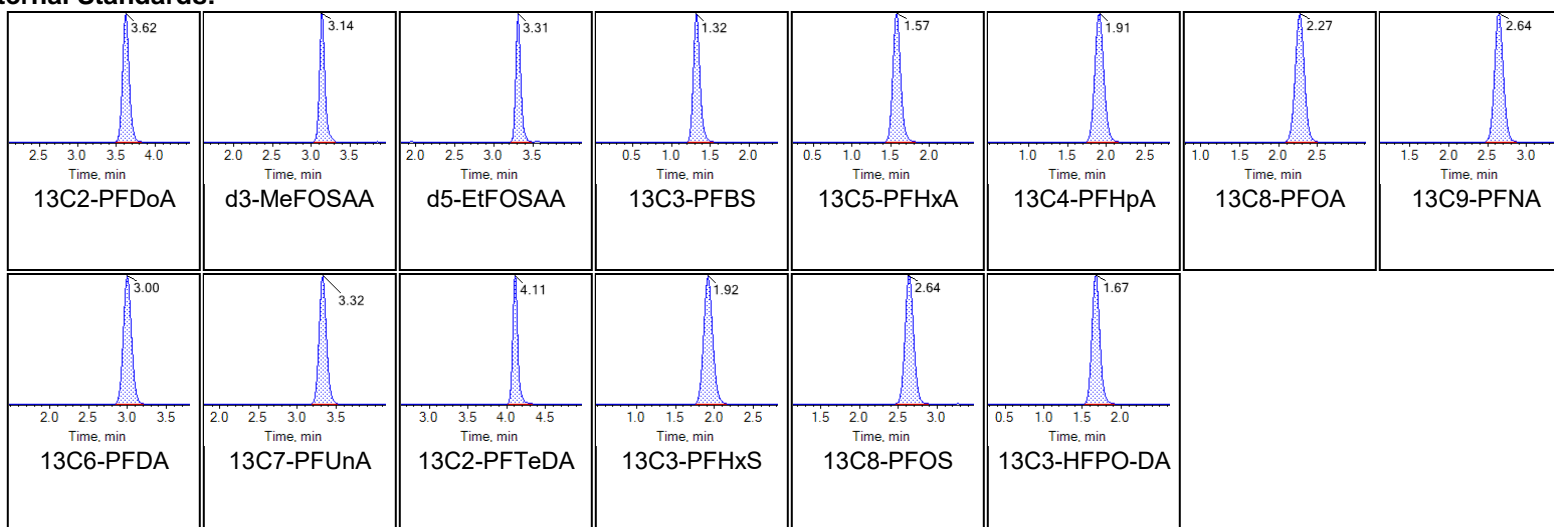




Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





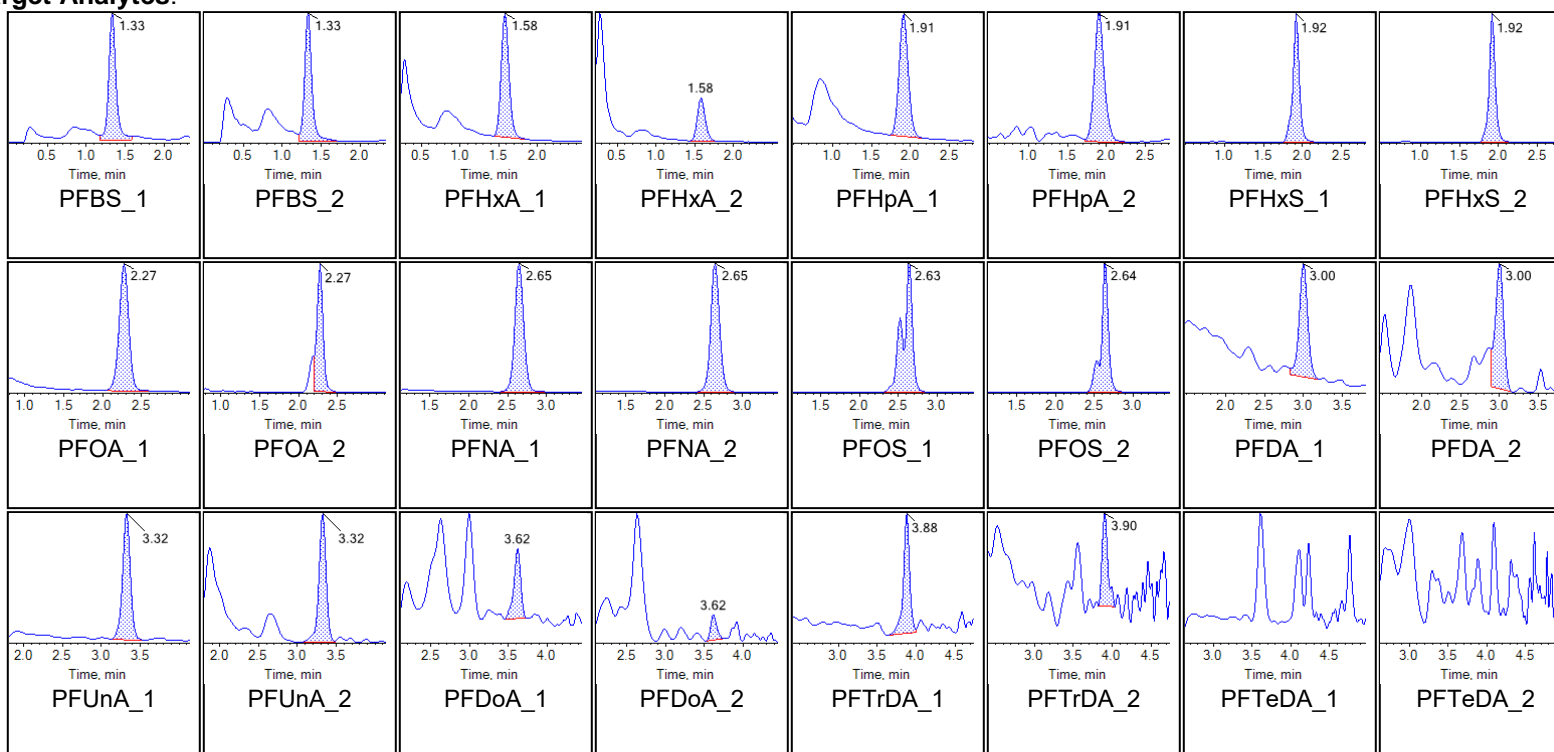
Chromatogram Report

Created with Analyst Reporter
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Sample Name	G1647-FS(0)	Injection Vial	21
Sample ID	CBD-AOA-SW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:07:29 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

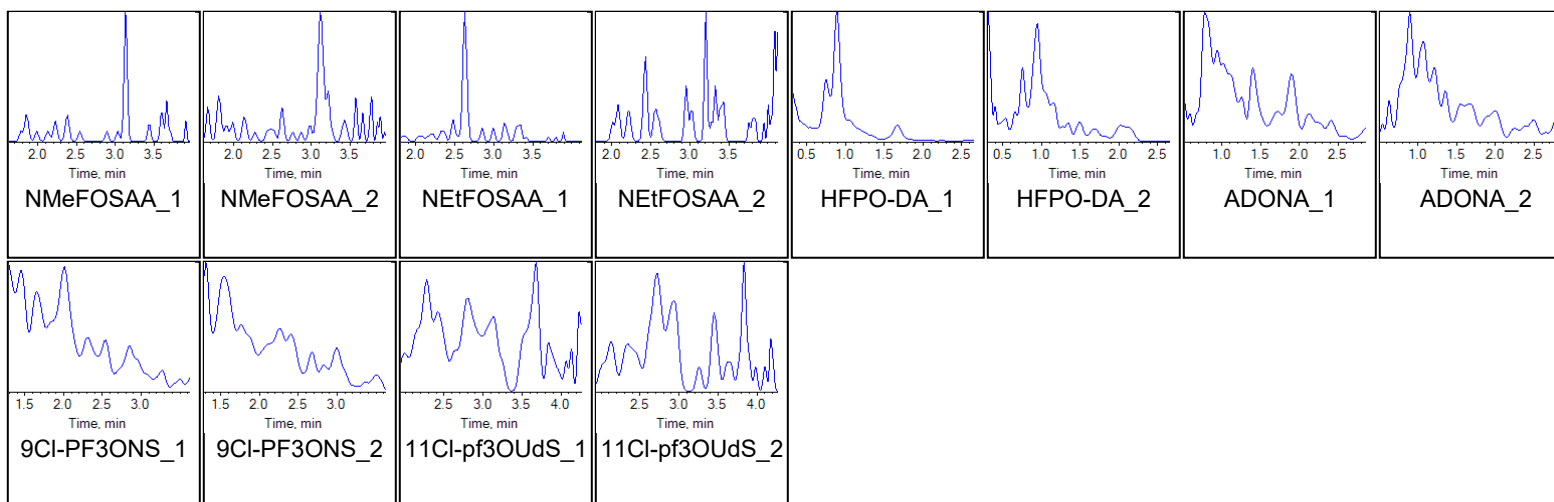
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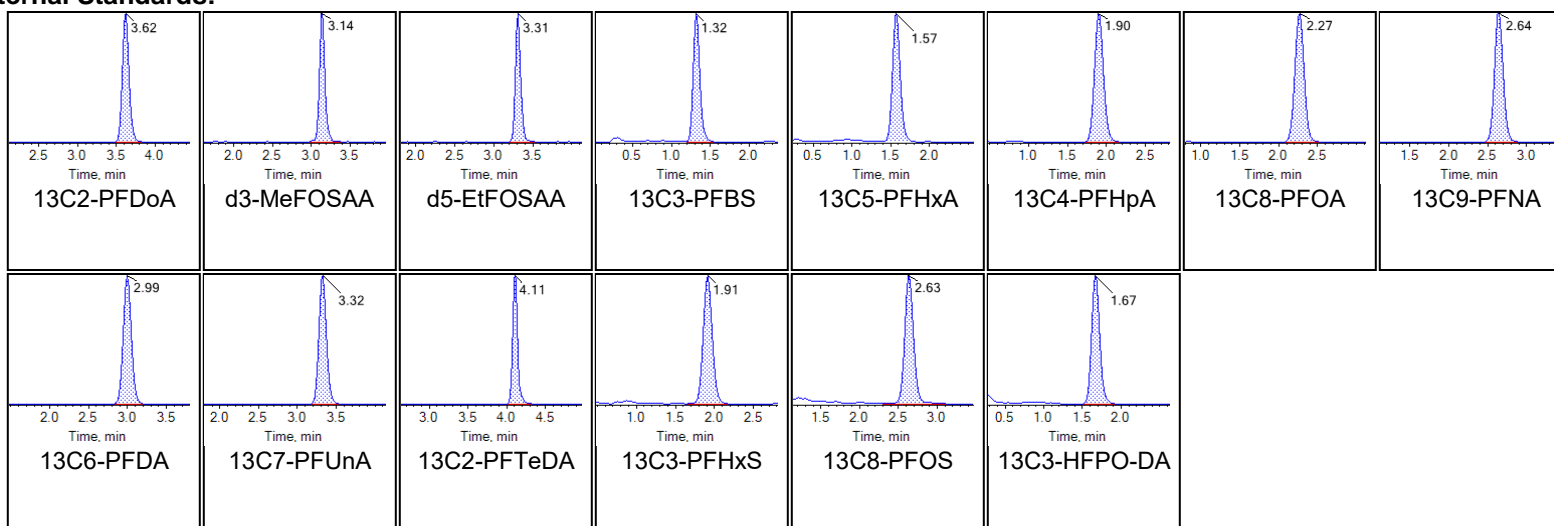




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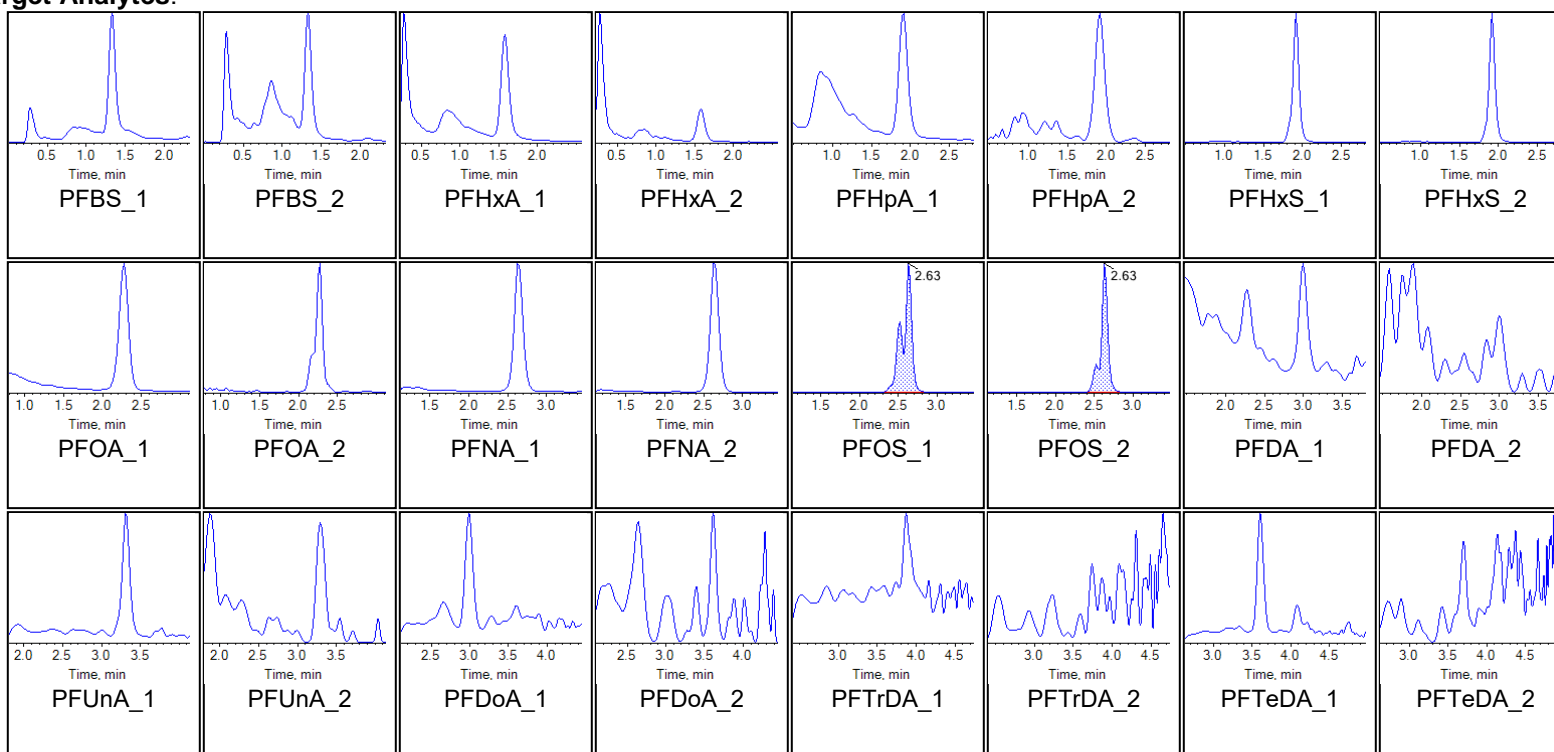
Chromatogram Report

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Sample Name	G1647-FS-D(3)	Injection Vial	22
Sample ID	CBD-AOA-SW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:17:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

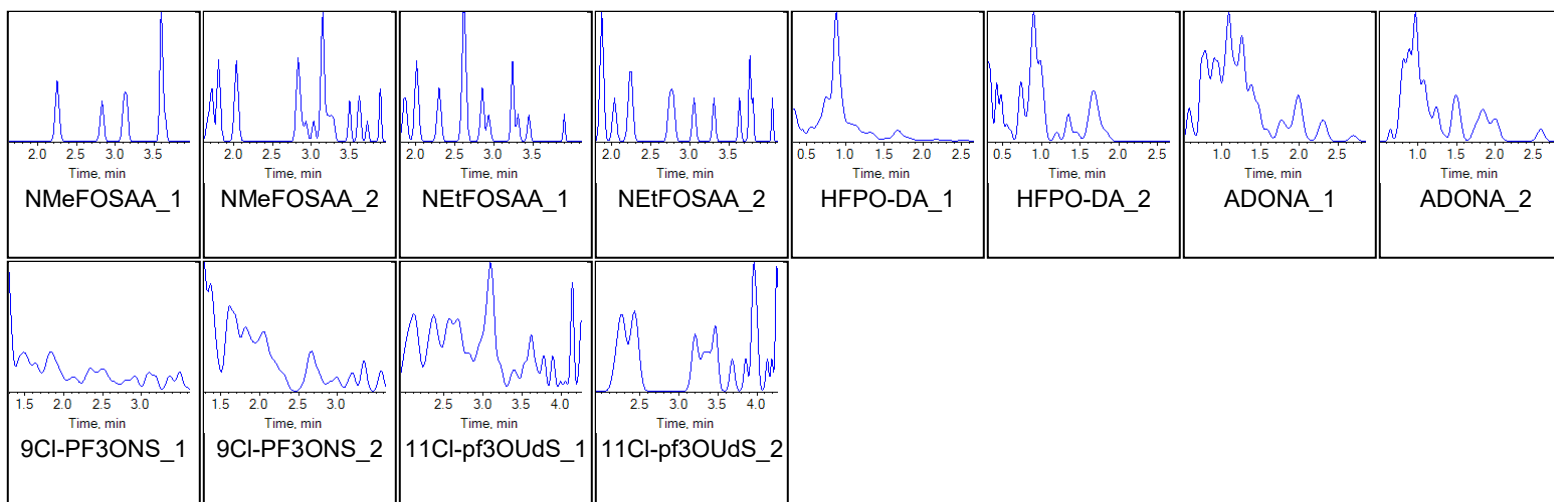
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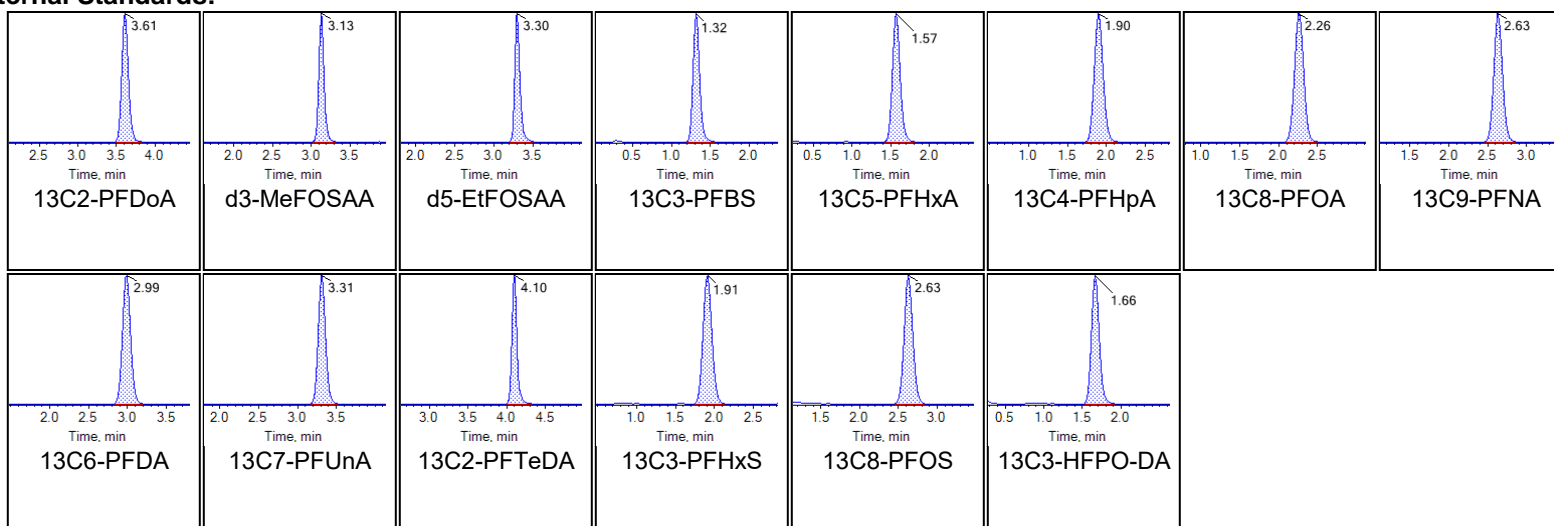




Chromatogram Report

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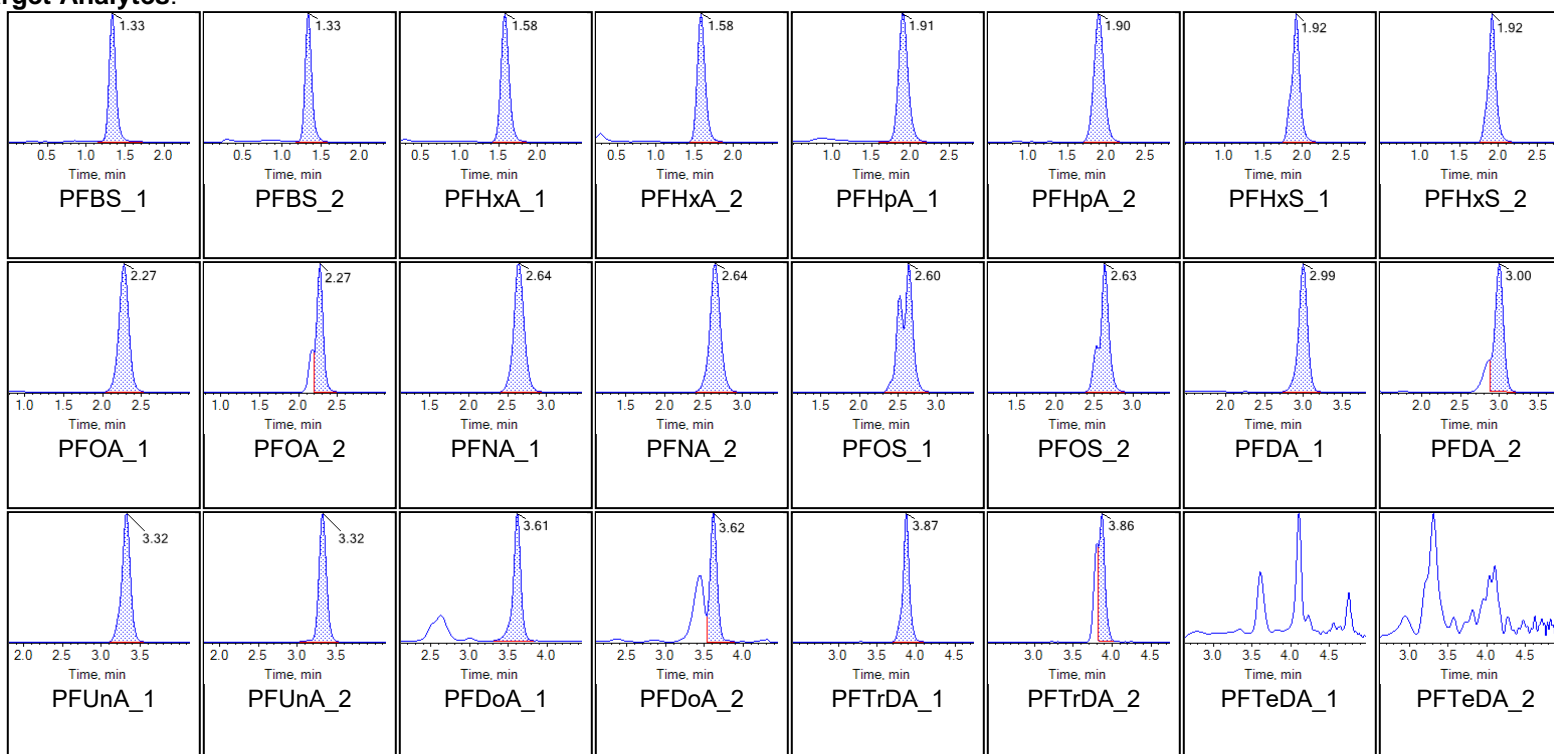
Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Sample Name	G1658-FS(0)	Injection Vial	23
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:28:28 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

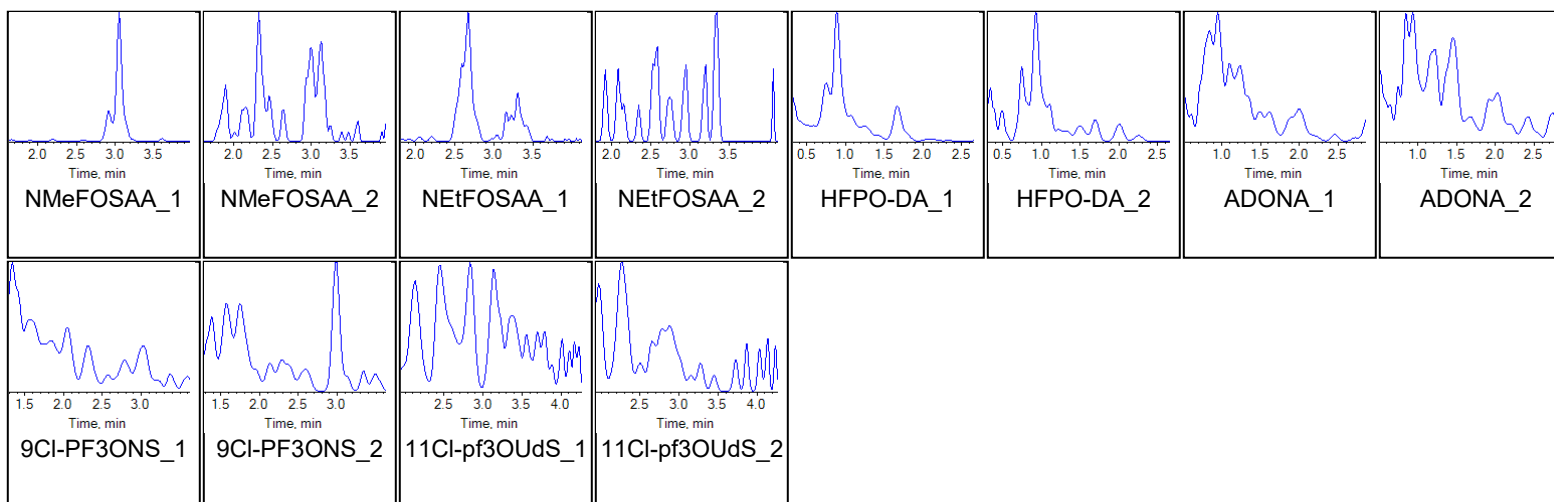
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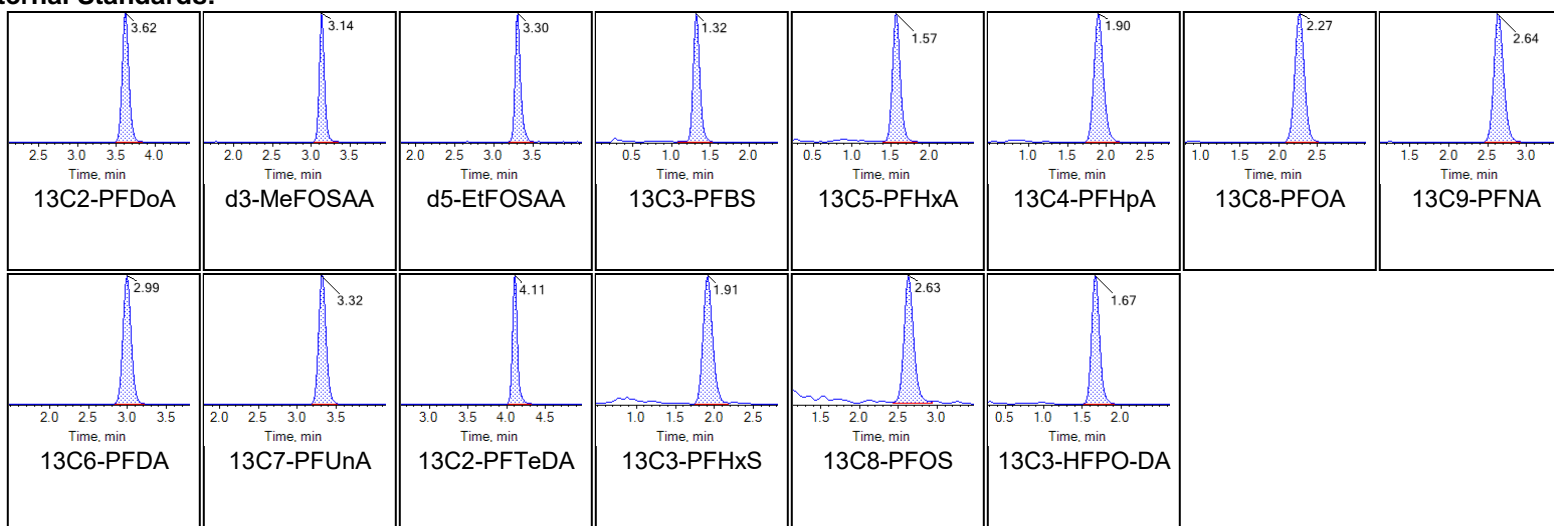




Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





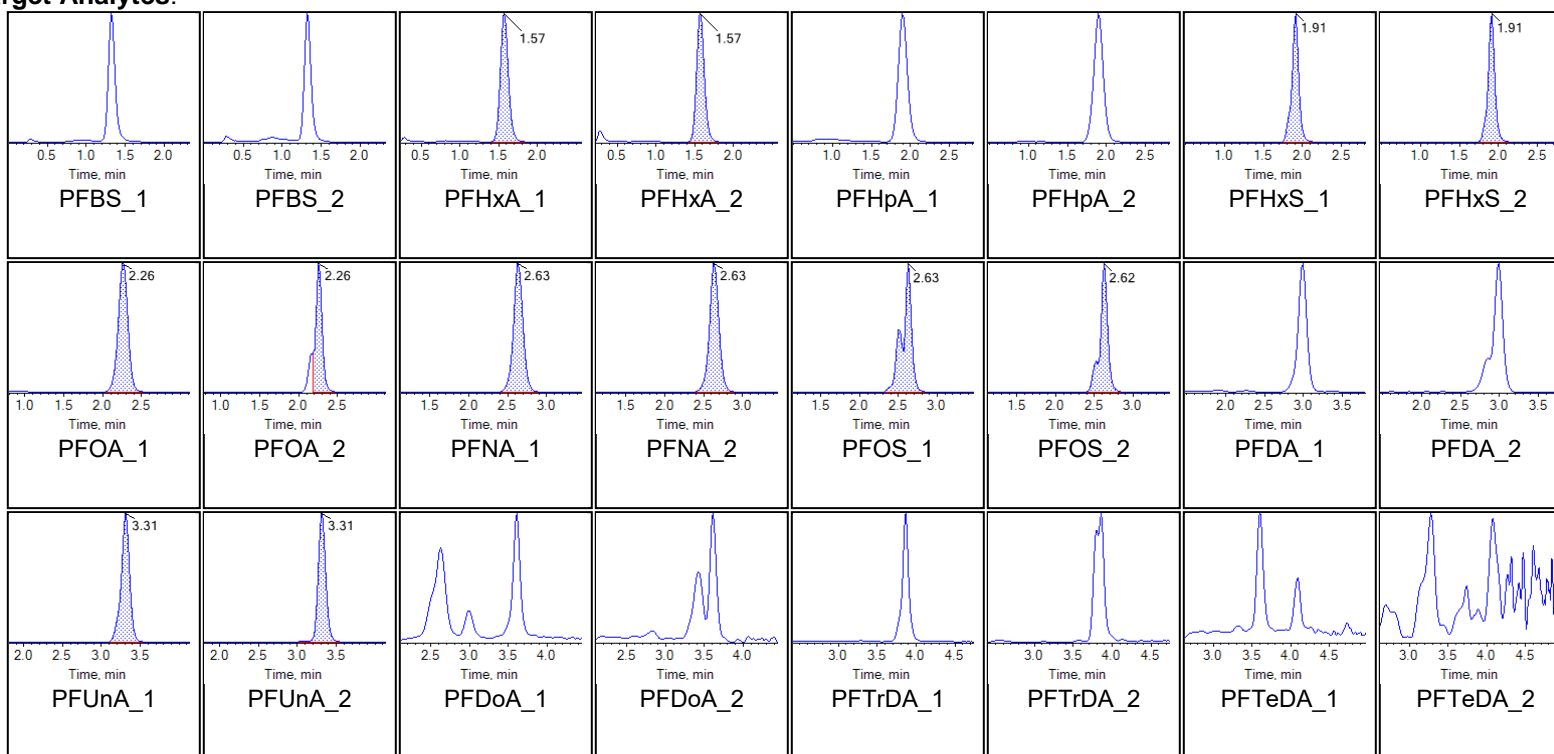
Chromatogram Report

Created with Analyst Reporter
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Sample Name	G1658-FS-D(3)	Injection Vial	24
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:38:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

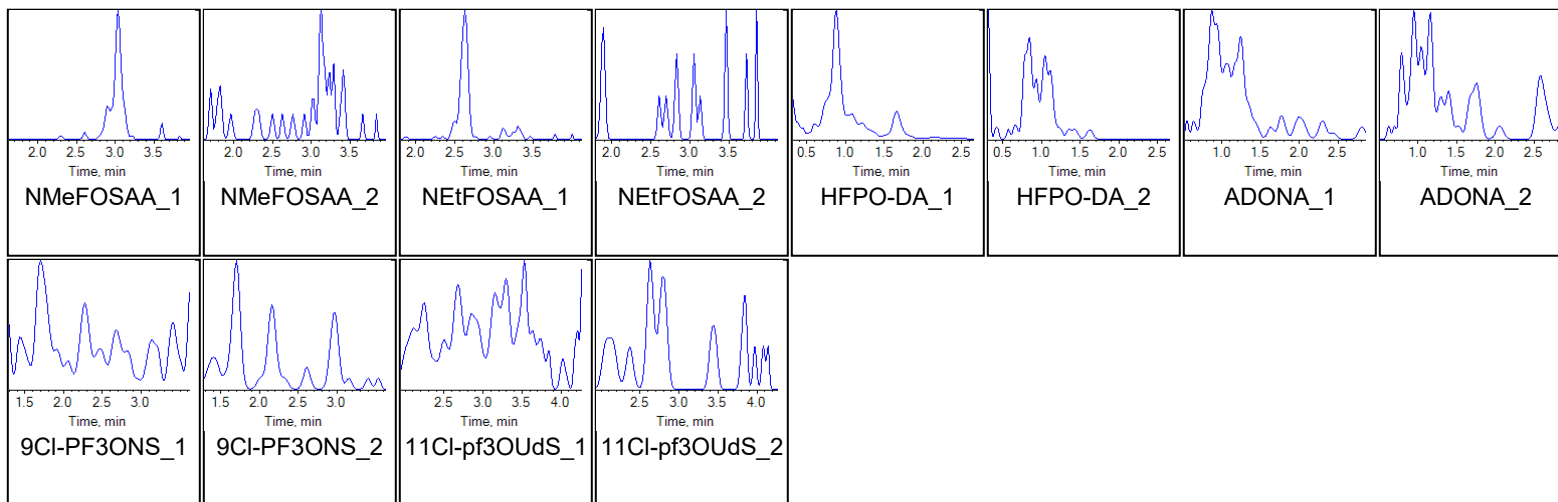
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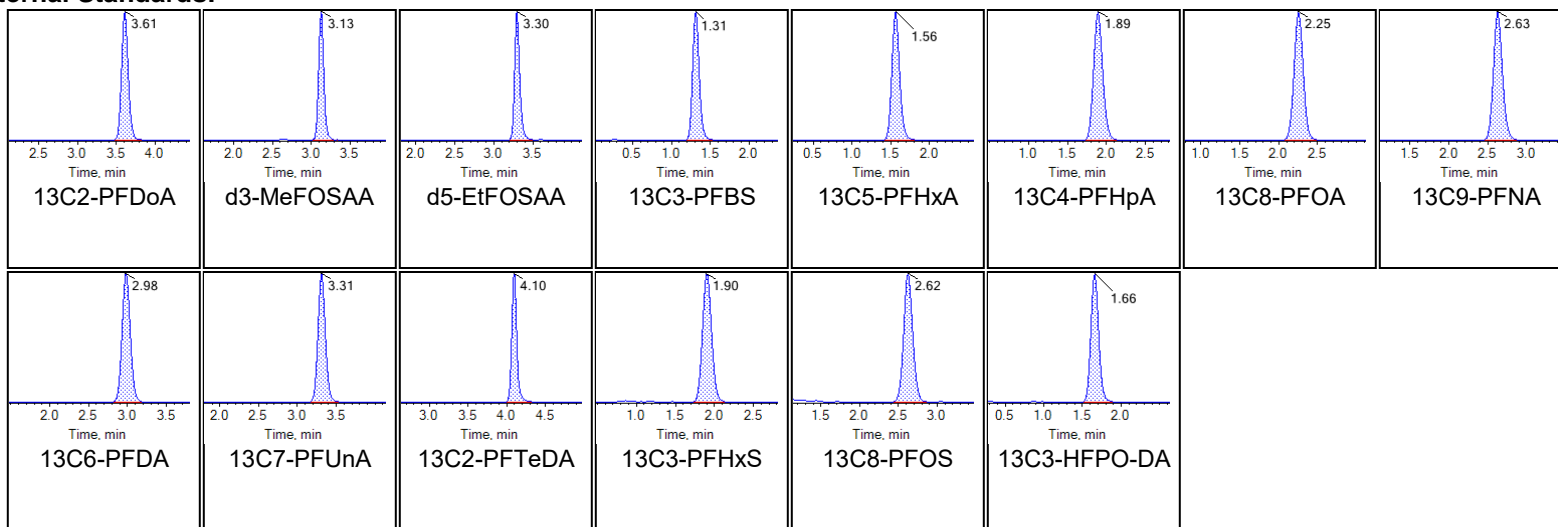


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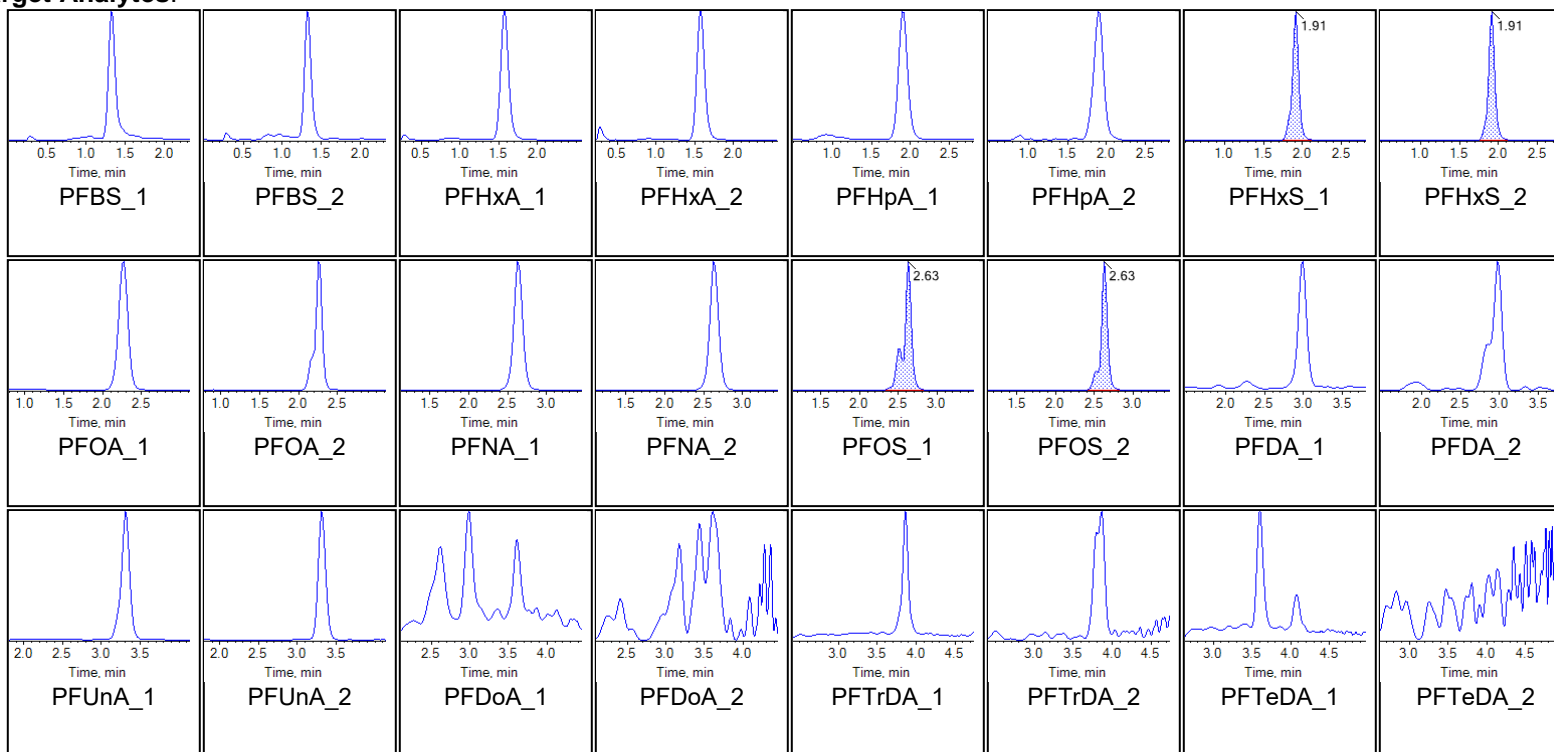
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1658-FS-D(7)	Injection Vial	26
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:59:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

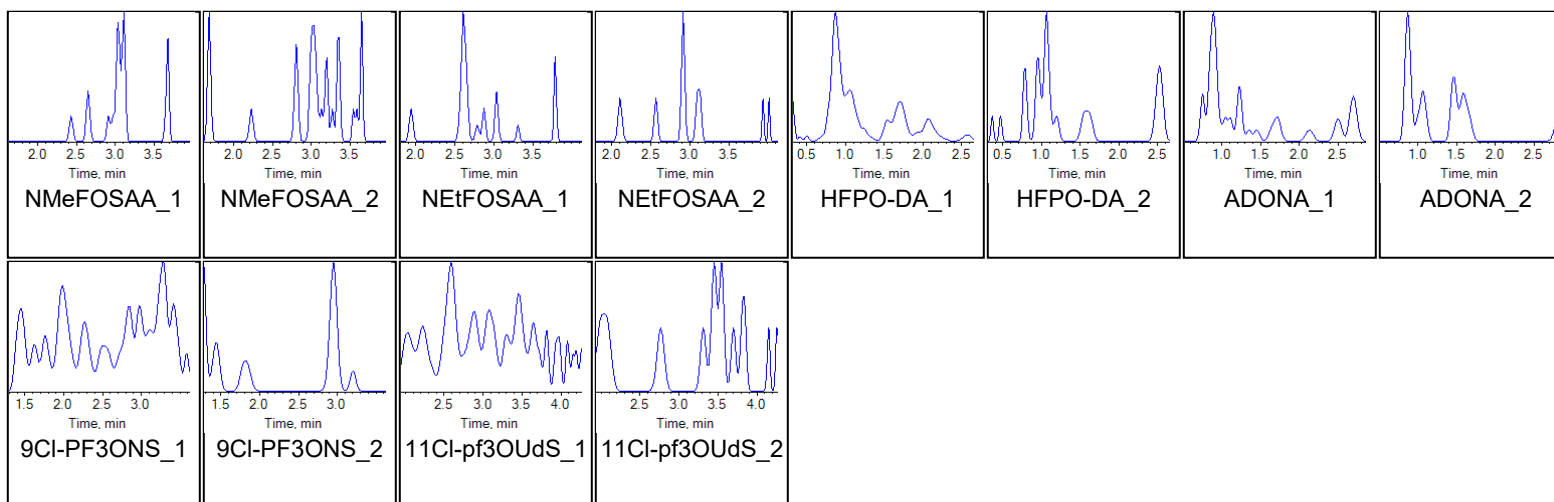
Chromatograms

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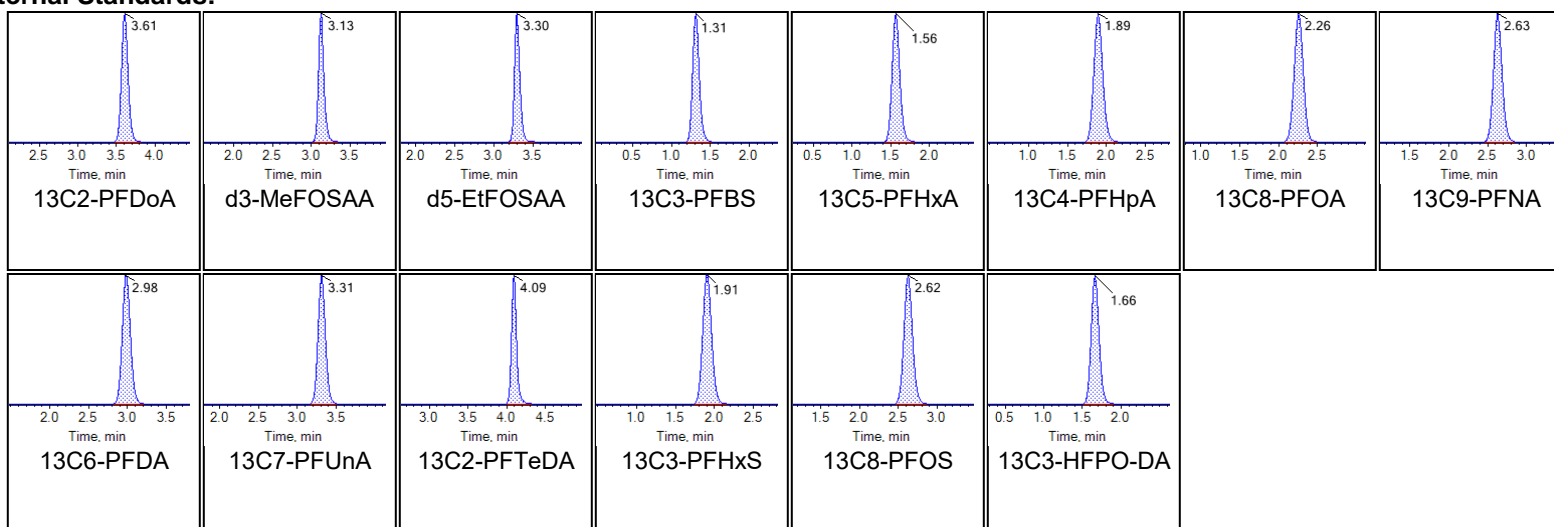




Chromatogram Report

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Internal Standards:





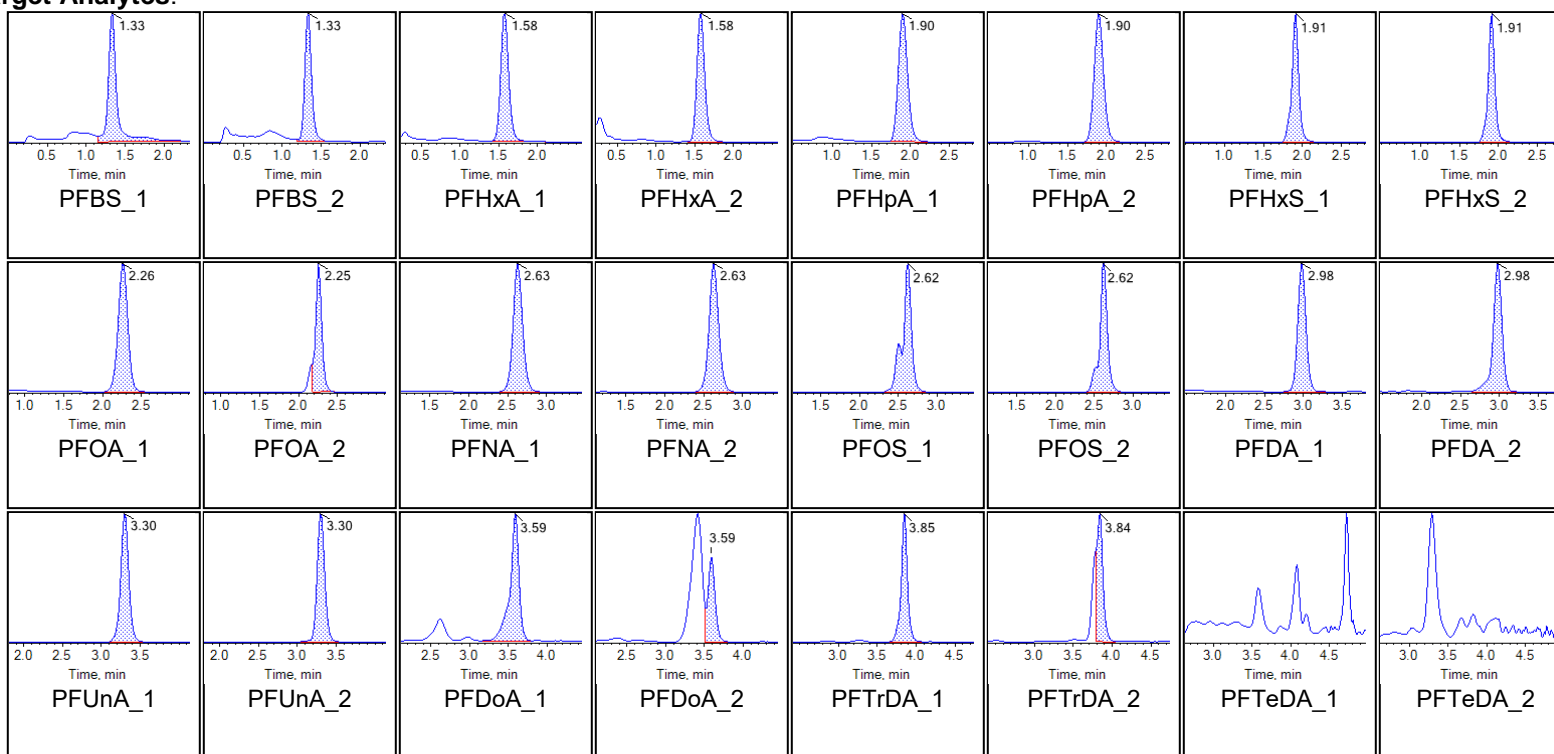
Chromatogram Report

Created with Analyst Reporter
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Sample Name	G1668-FS(0)	Injection Vial	27
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:10:24 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

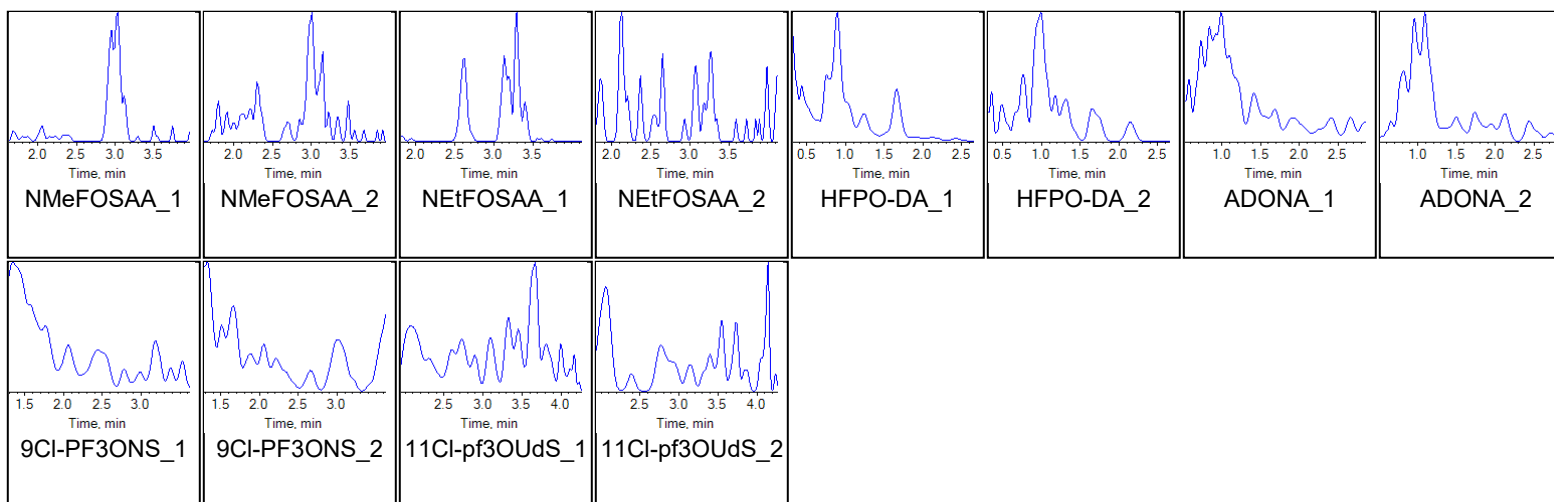
Chromatograms

Target Analytes:

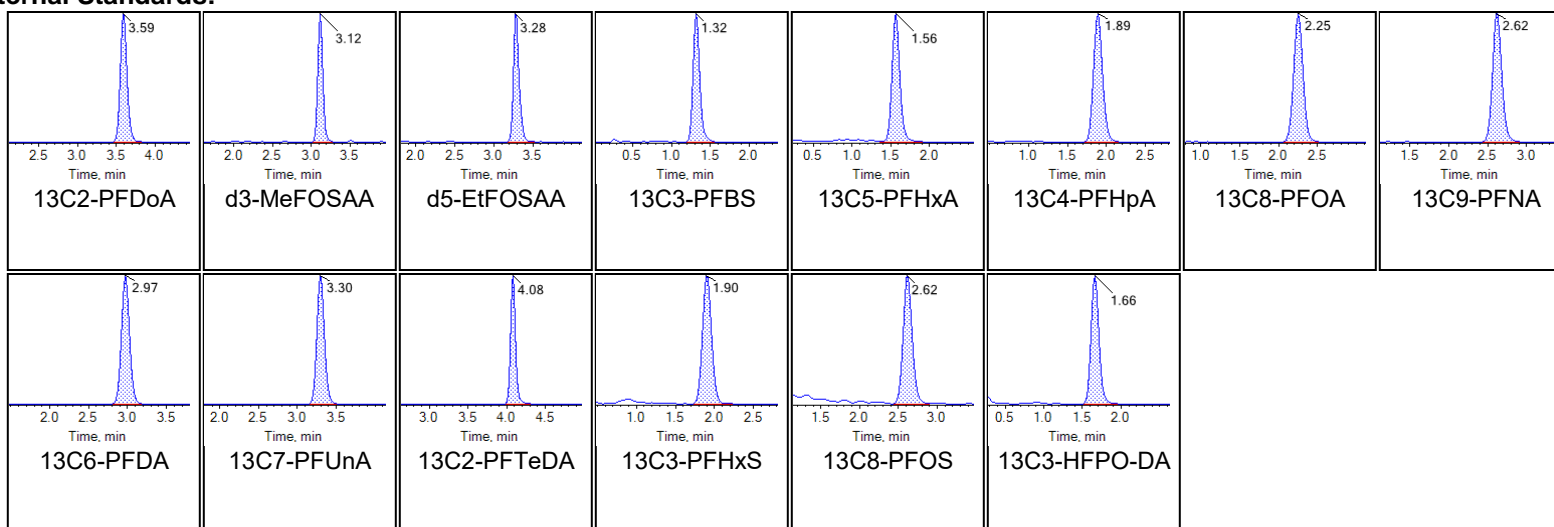




Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





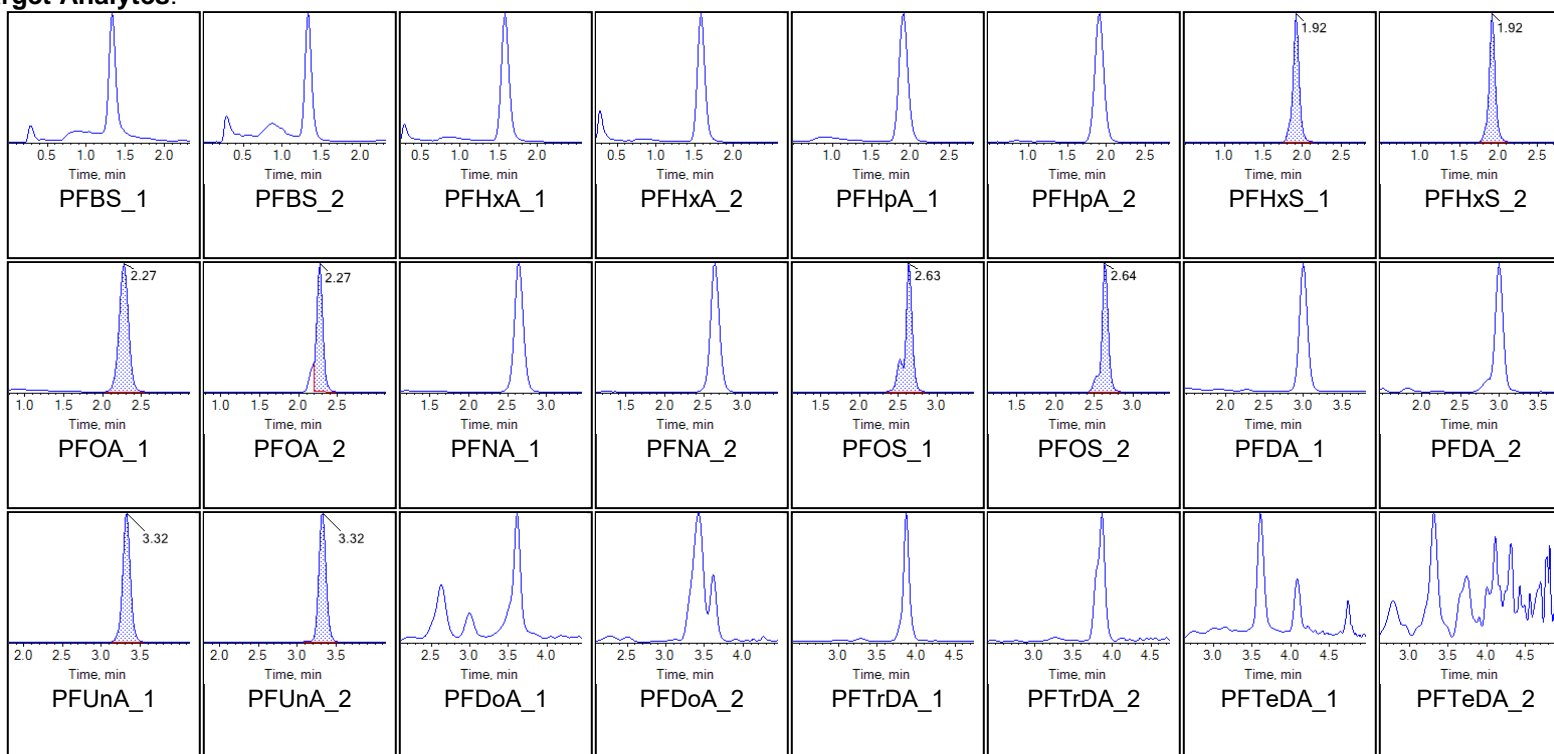
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1668-FS-D(3)	Injection Vial	28
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:20:52 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

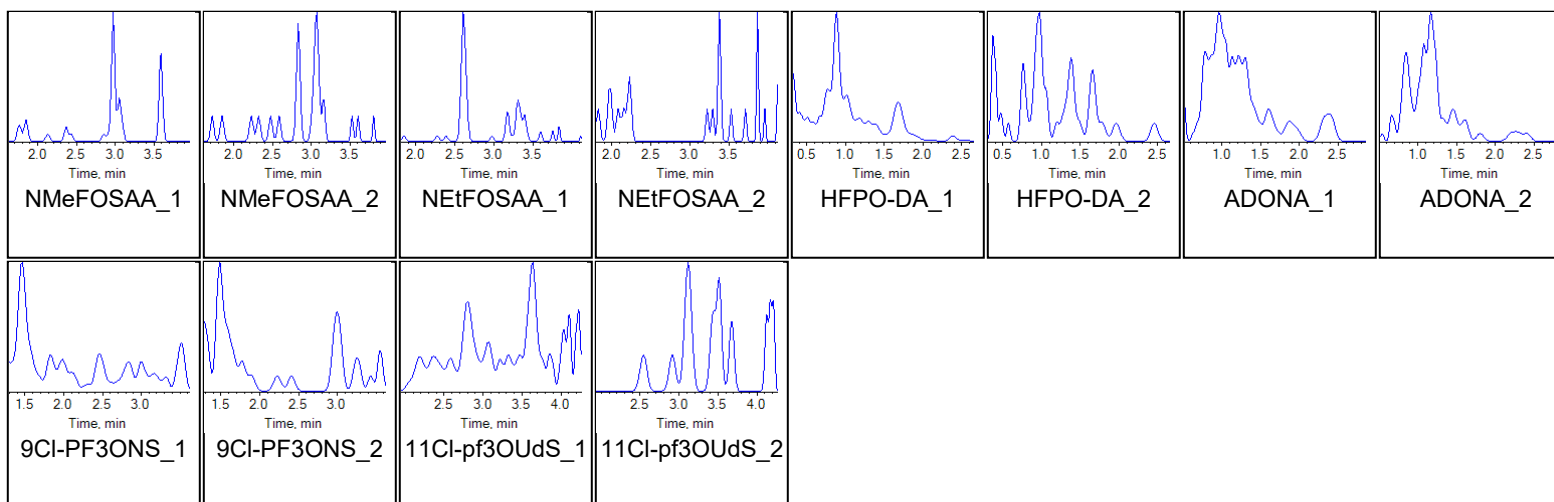
Chromatograms

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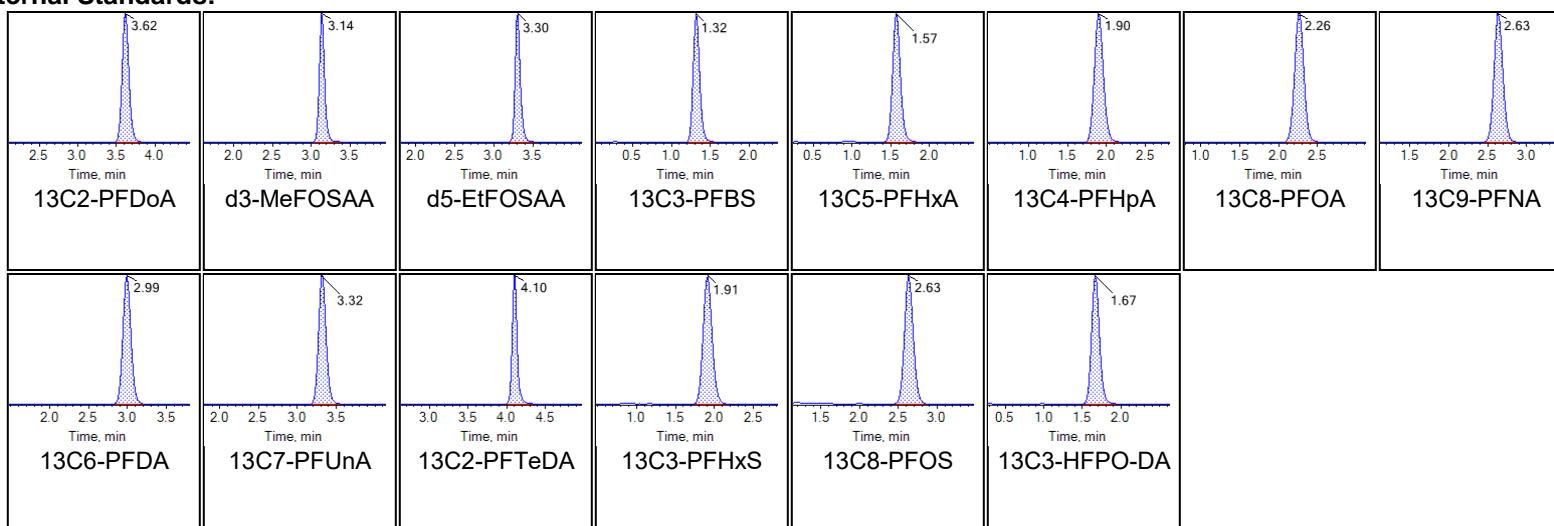




Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





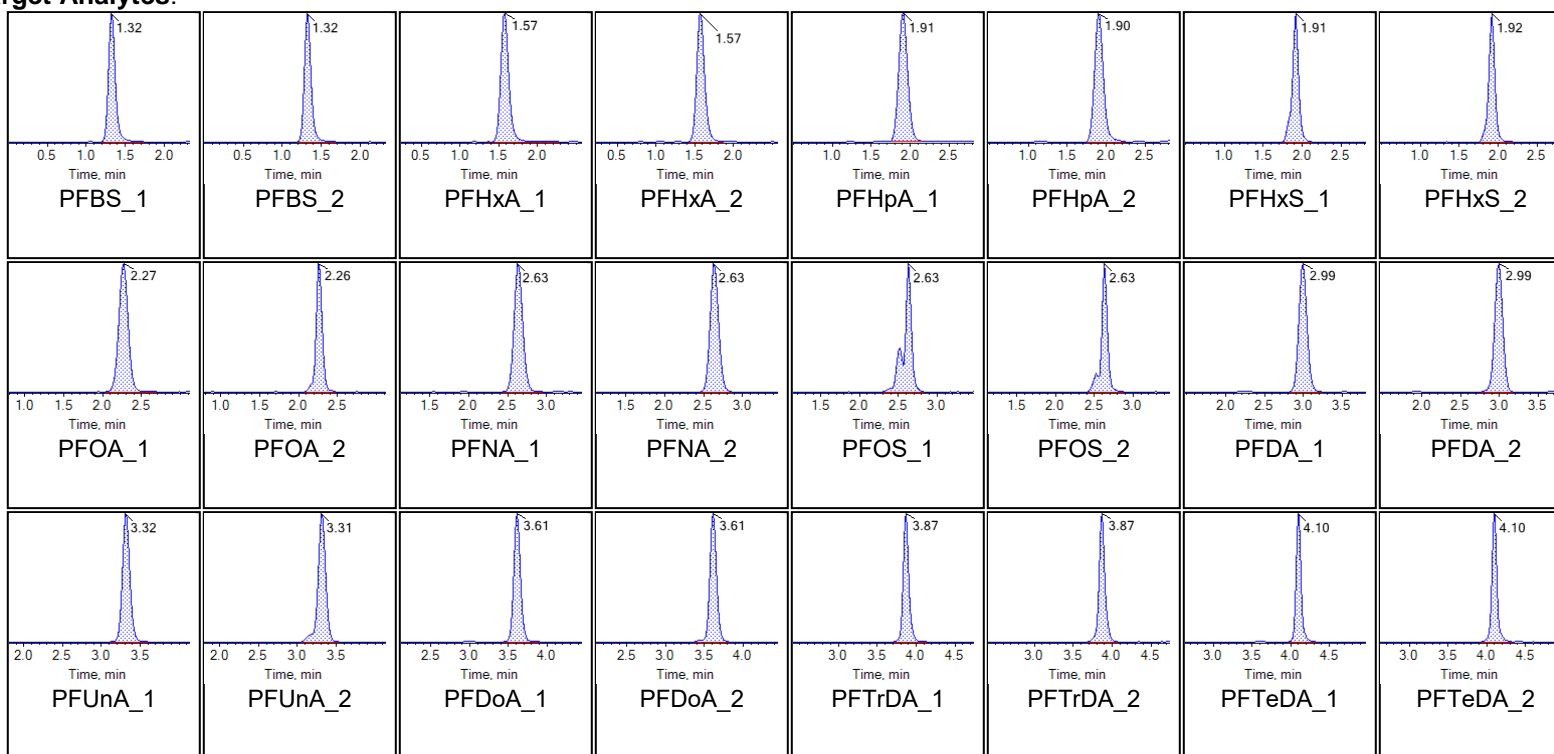
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD76 CCV	Injection Vial	31
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
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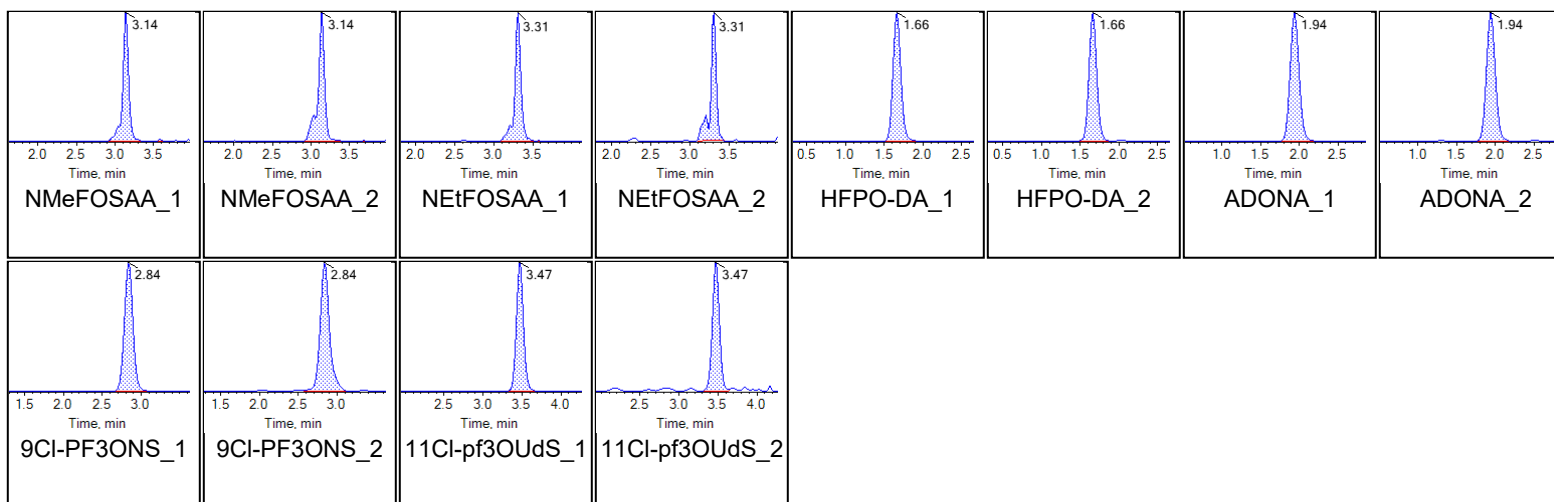
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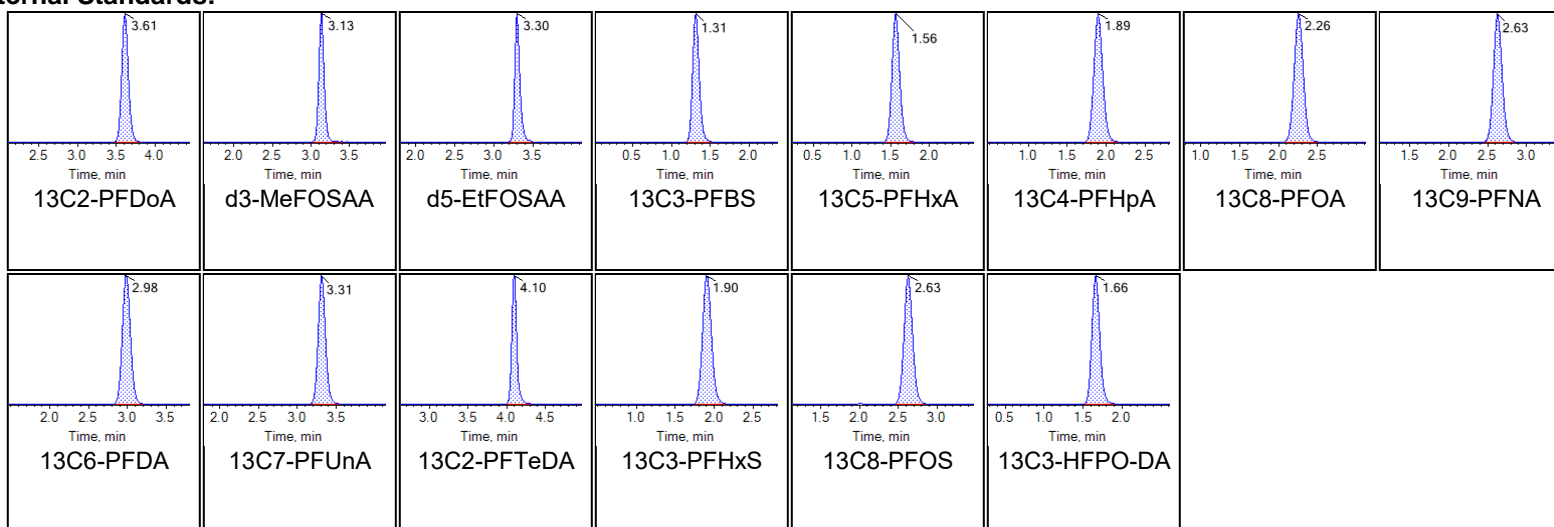




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Printed: 04/11/2020 5:08:23 PM

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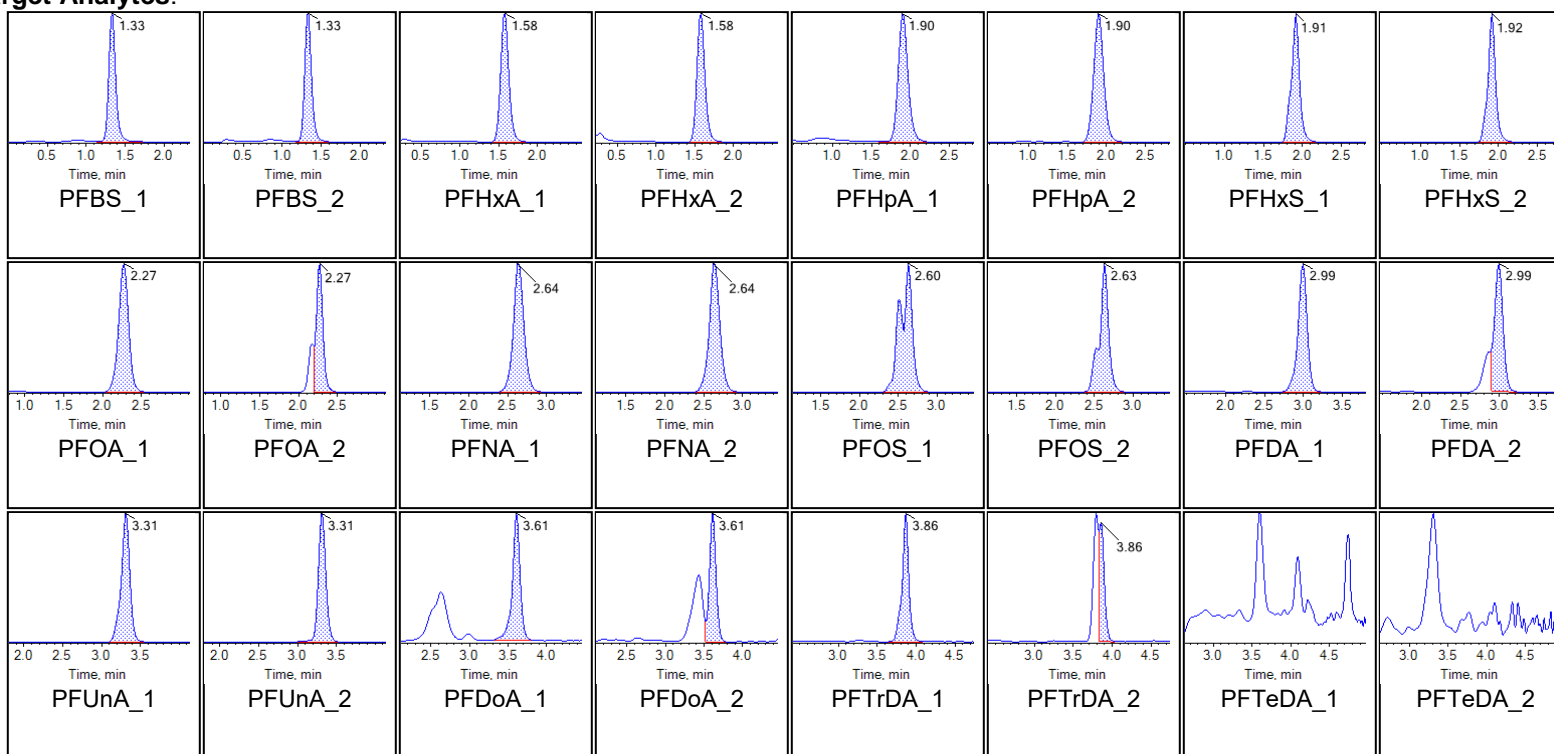
Chromatogram Report

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Sample Name	G1661-FS(0)	Injection Vial	32
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:02:44 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

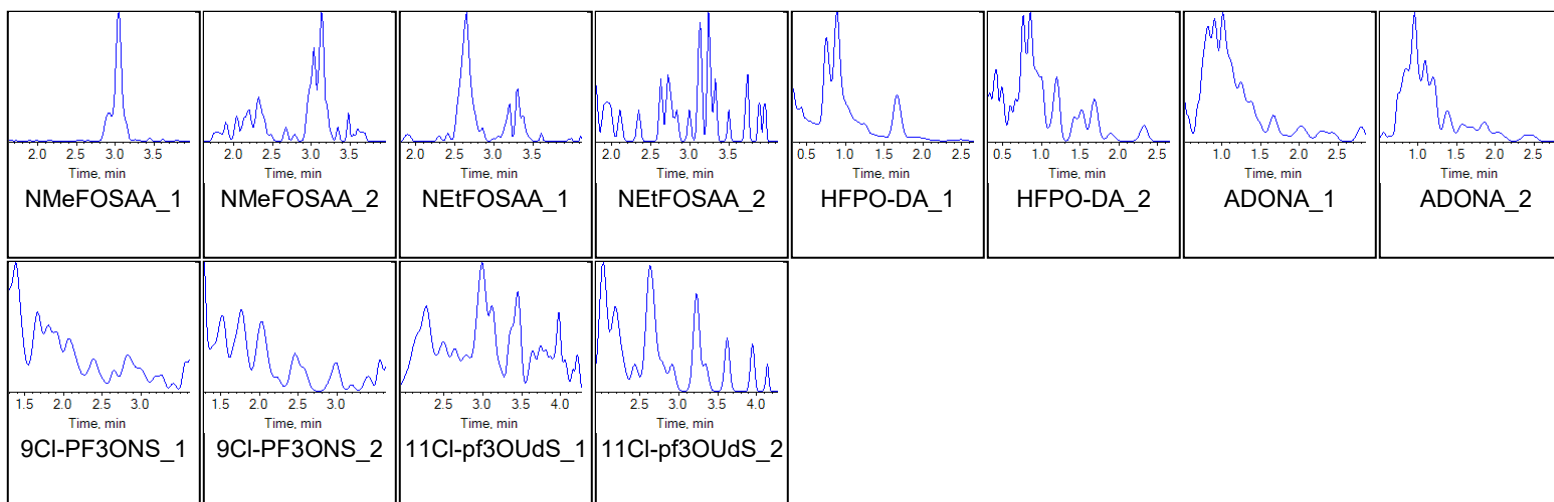
Chromatograms

Target Analytes:

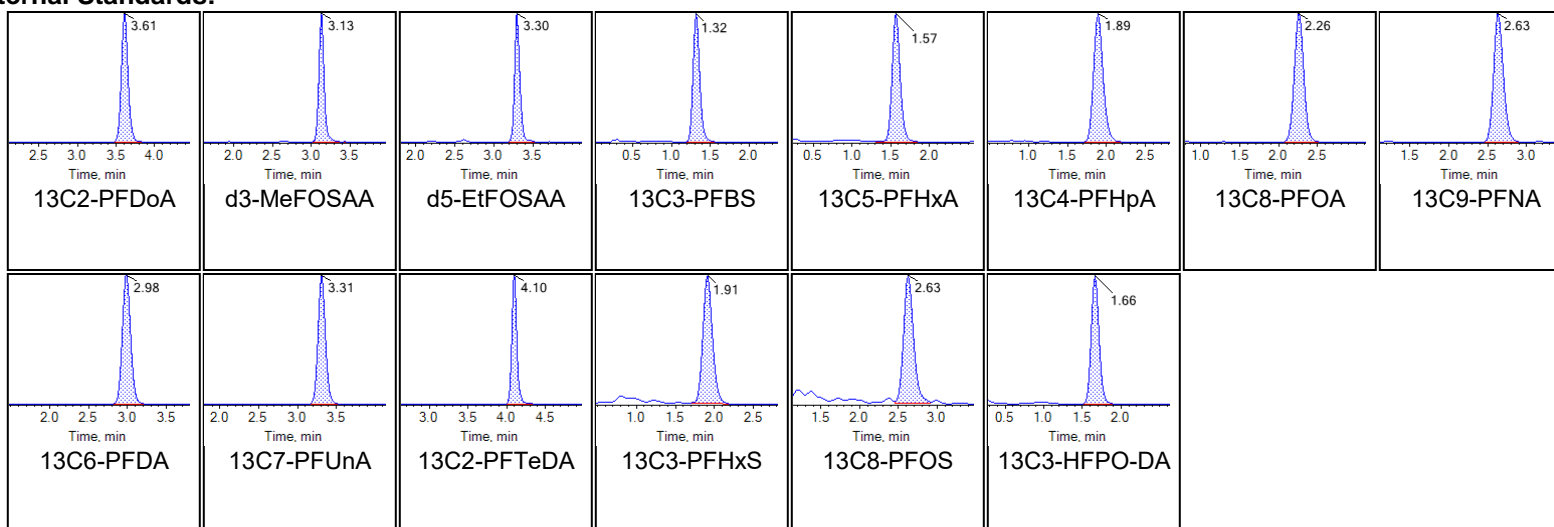




Chromatogram Report

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Internal Standards:





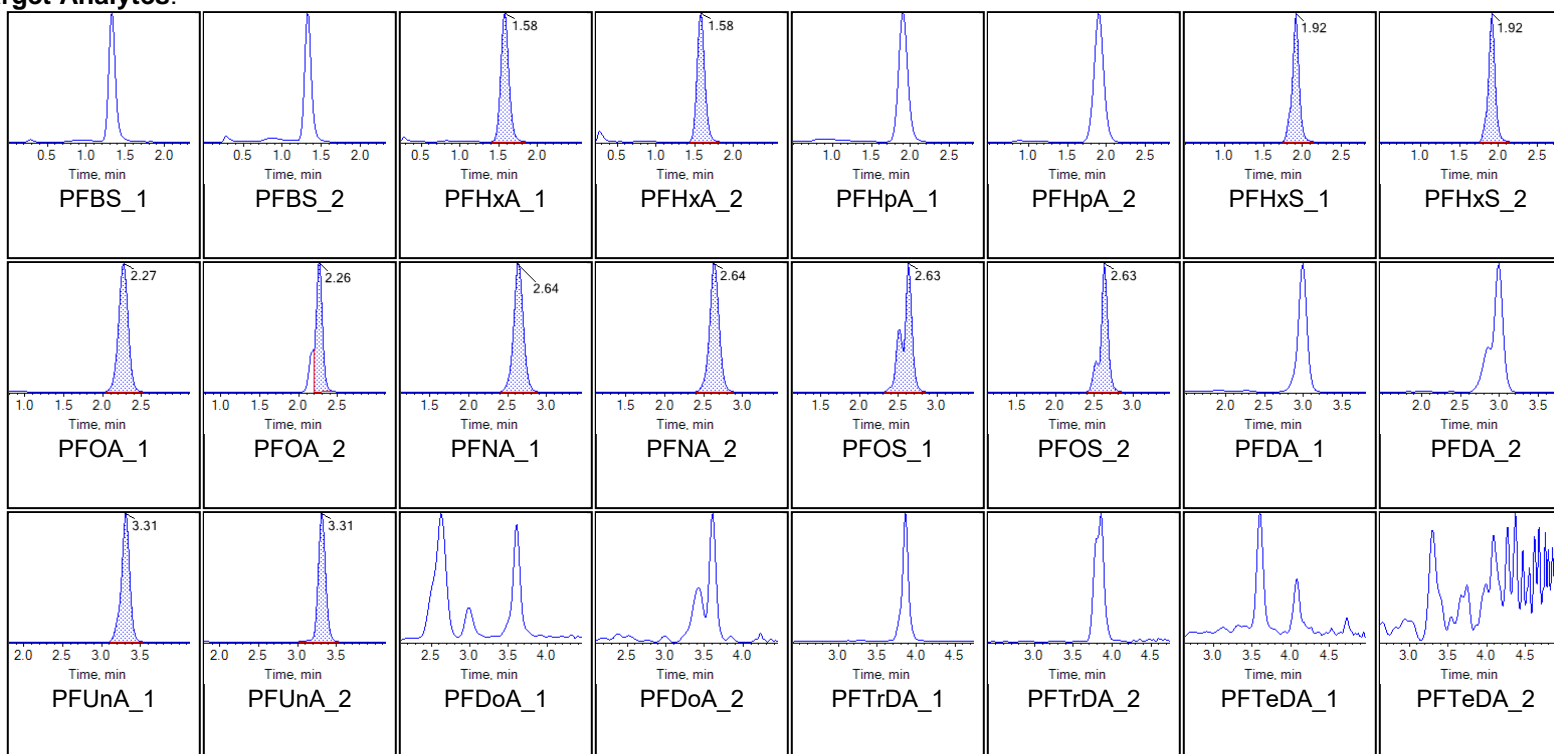
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1661-FS-D(3)	Injection Vial	33
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:13:11 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

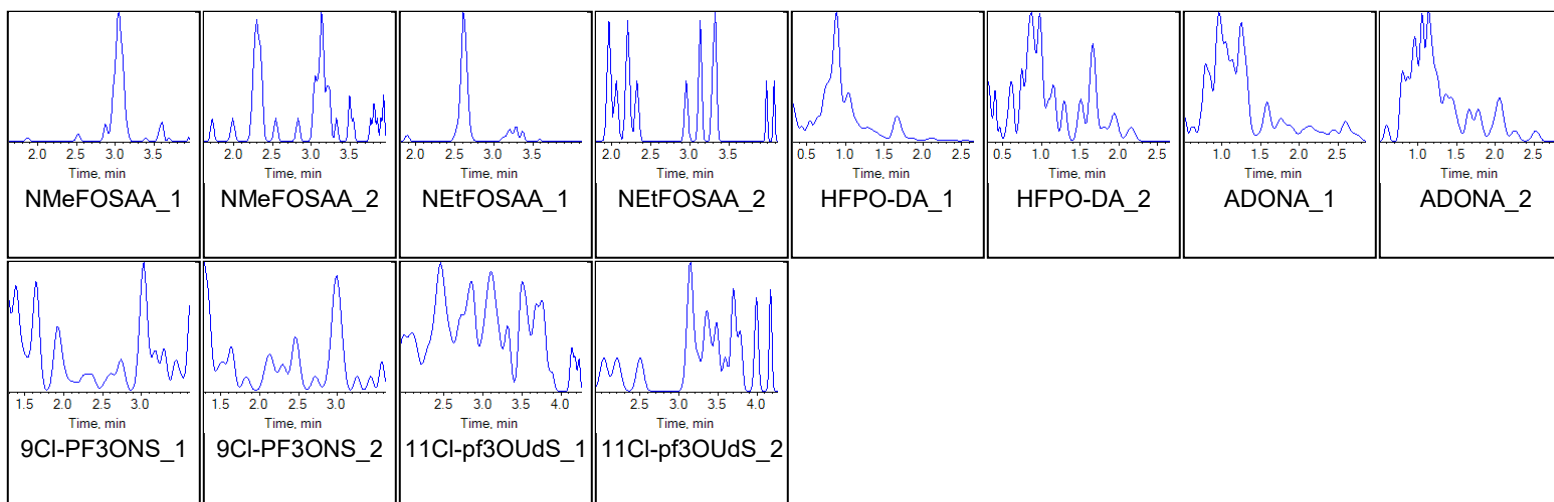
Chromatograms

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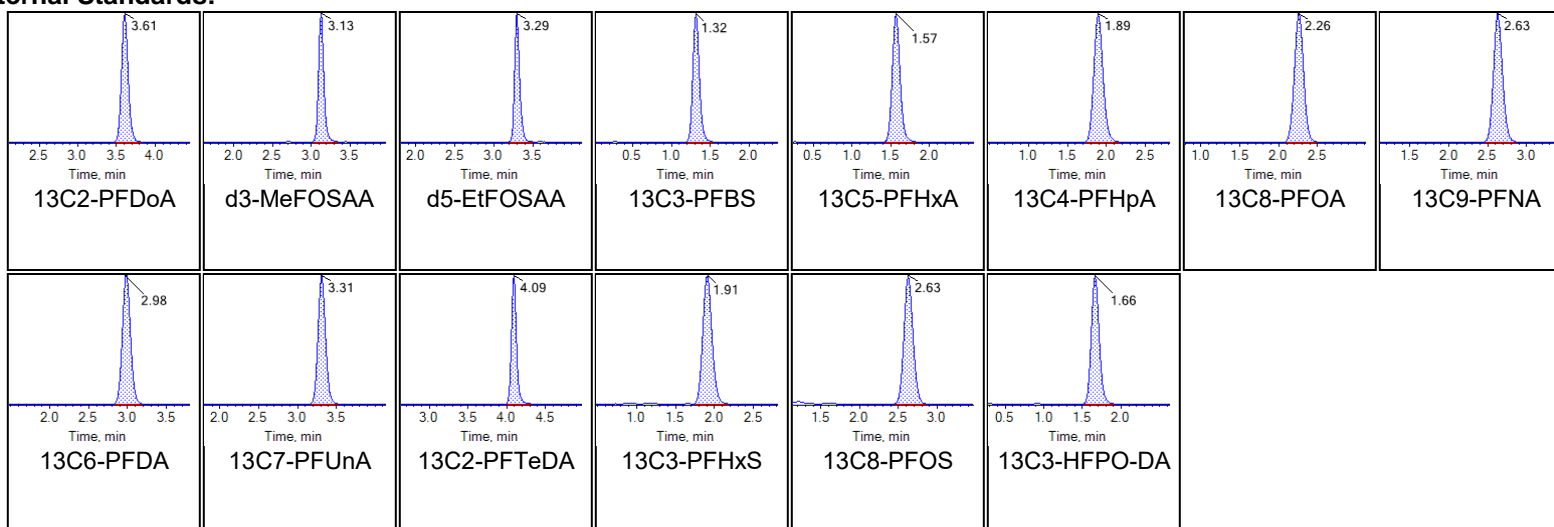




Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





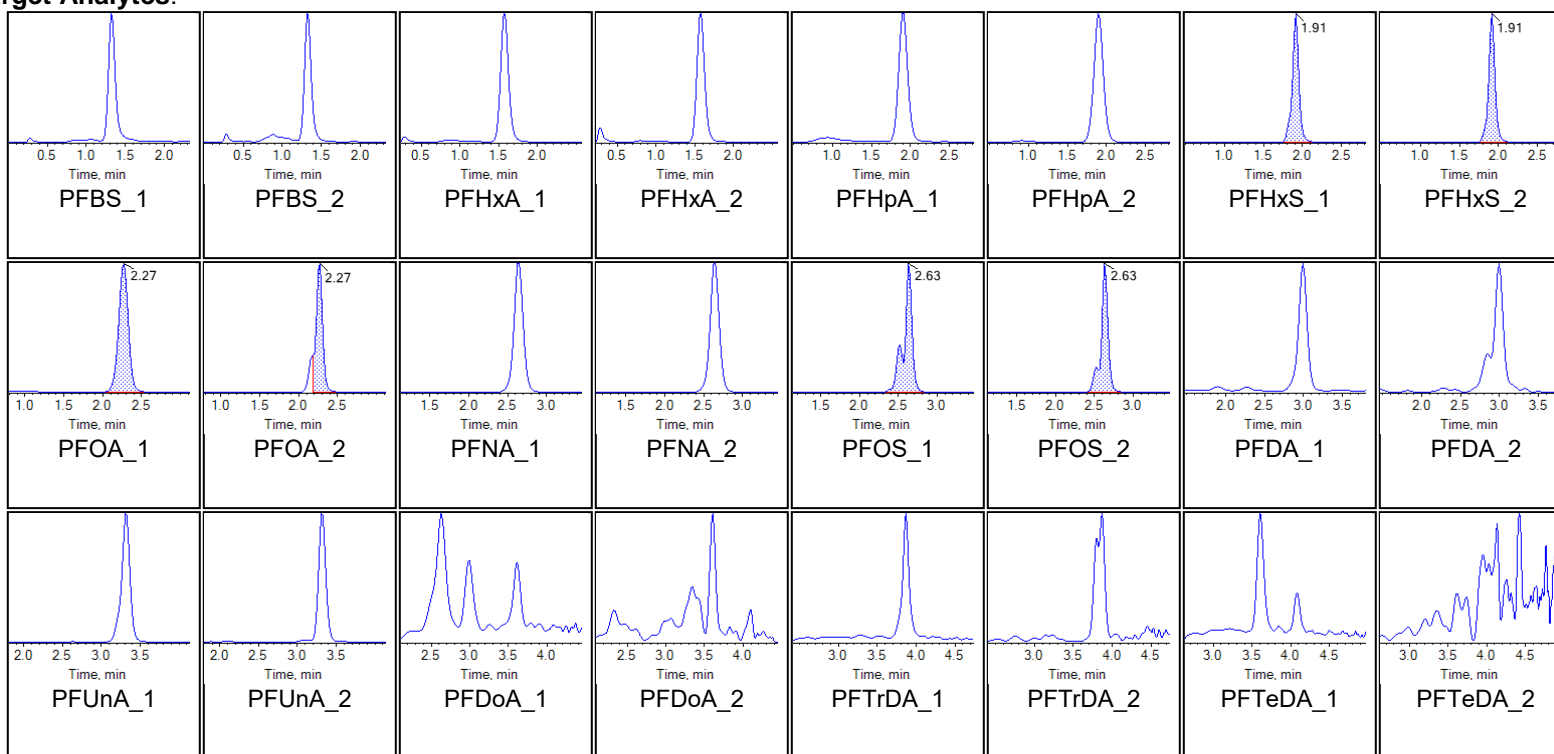
Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Sample Name	G1661-FS-D(5)	Injection Vial	34
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:23:40 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

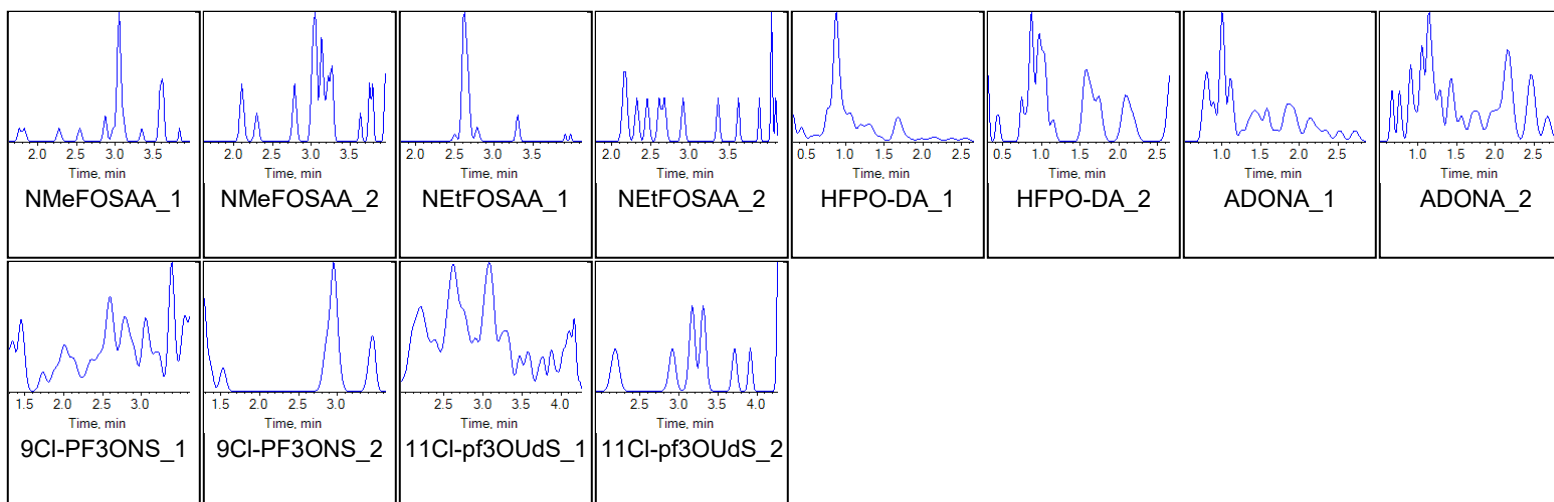
Chromatograms

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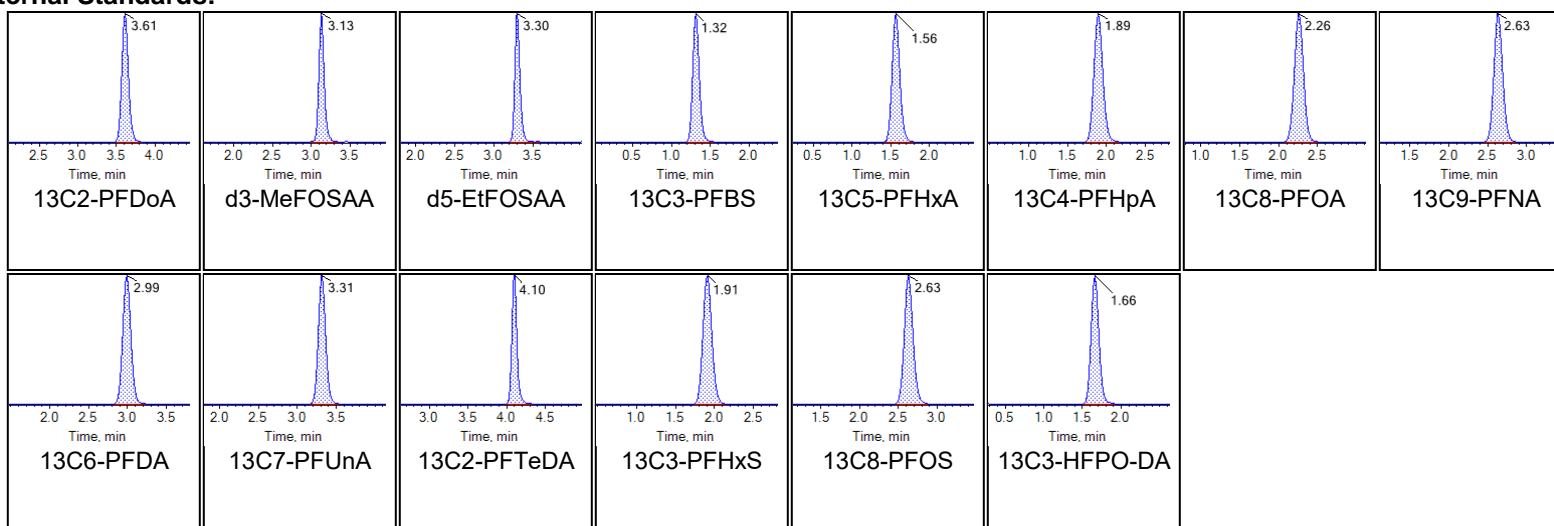




Chromatogram Report

Created with Analyst Reporter
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Internal Standards:





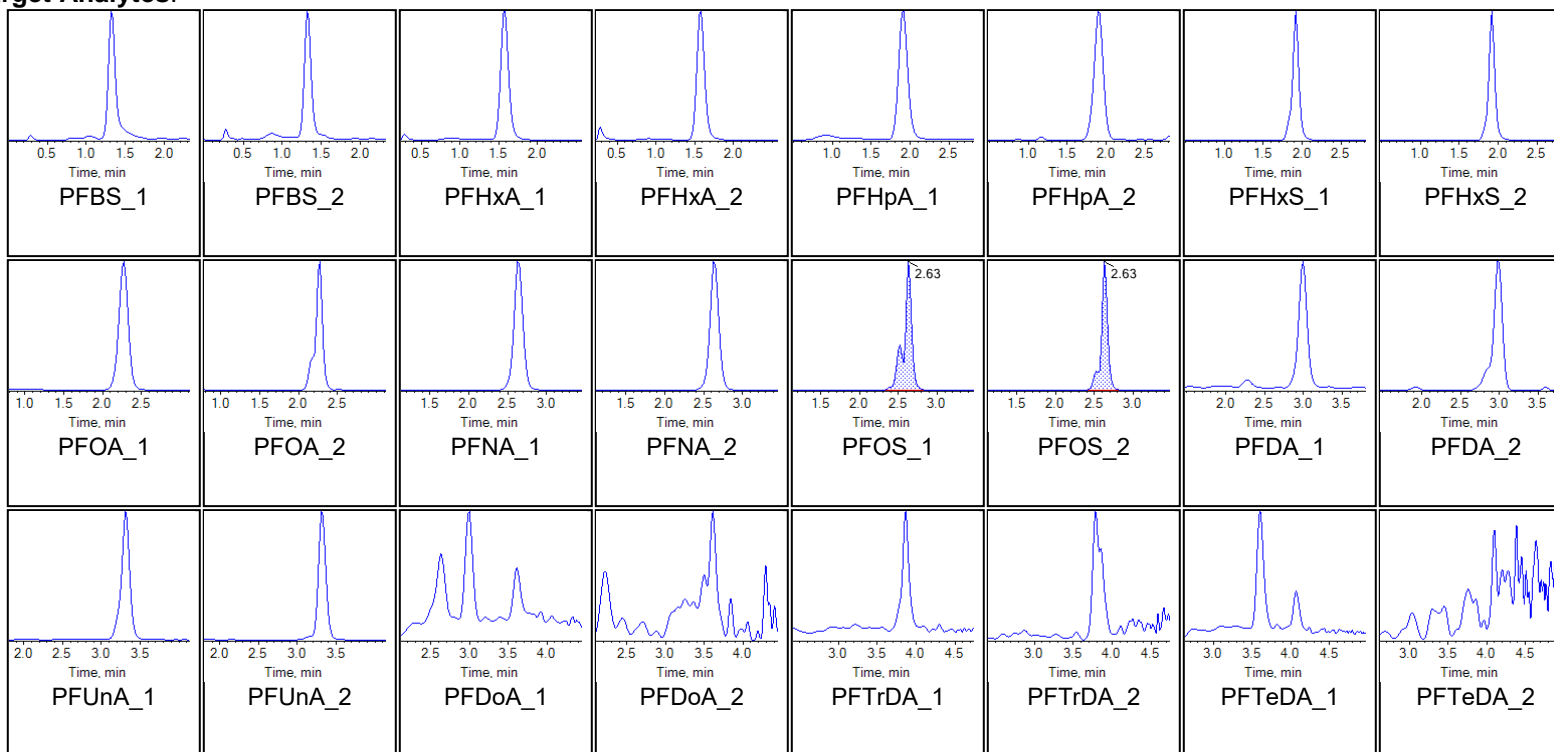
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1661-FS-D(7)	Injection Vial	35
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:34:08 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

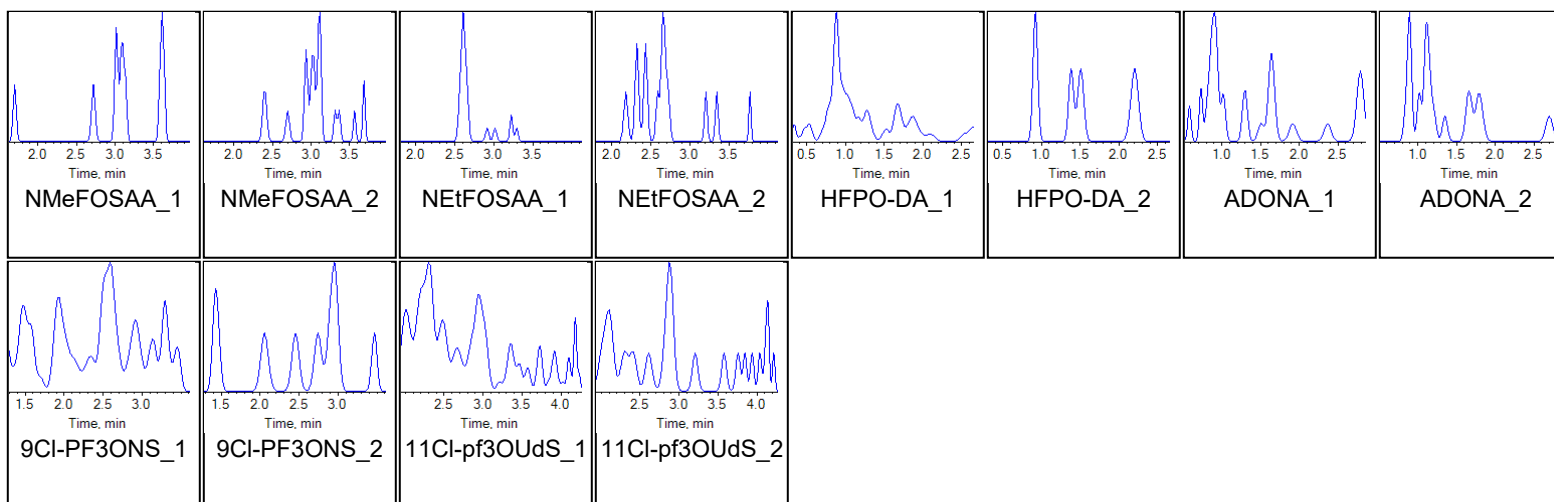
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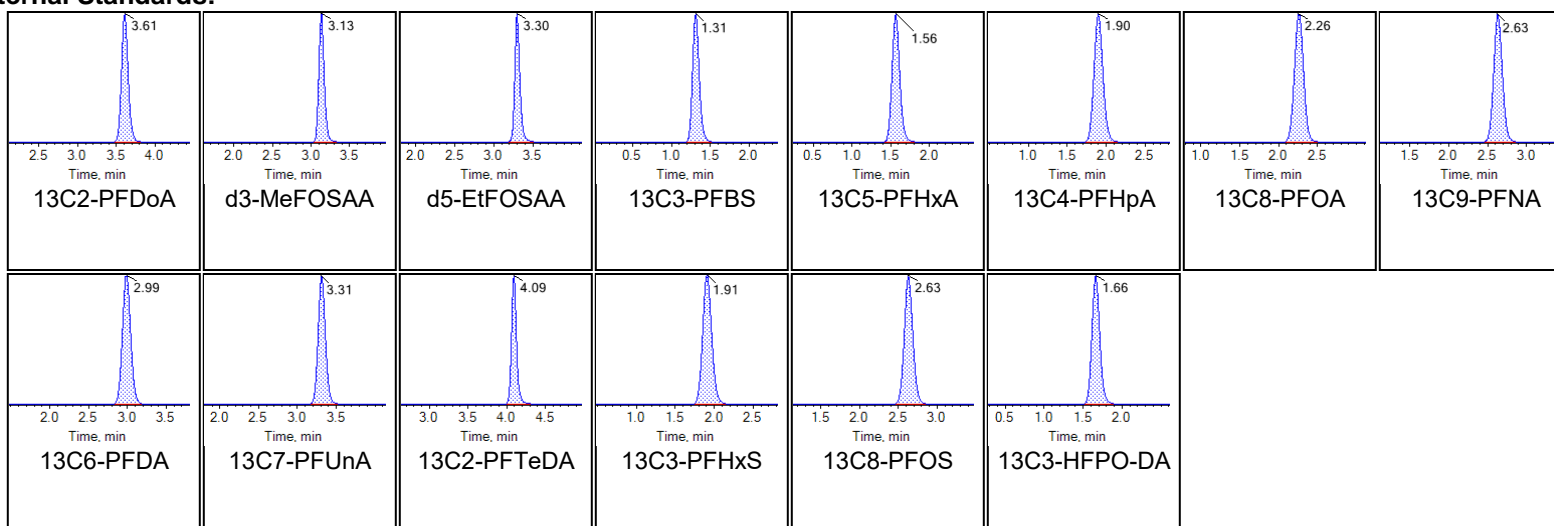




Chromatogram Report

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Internal Standards:





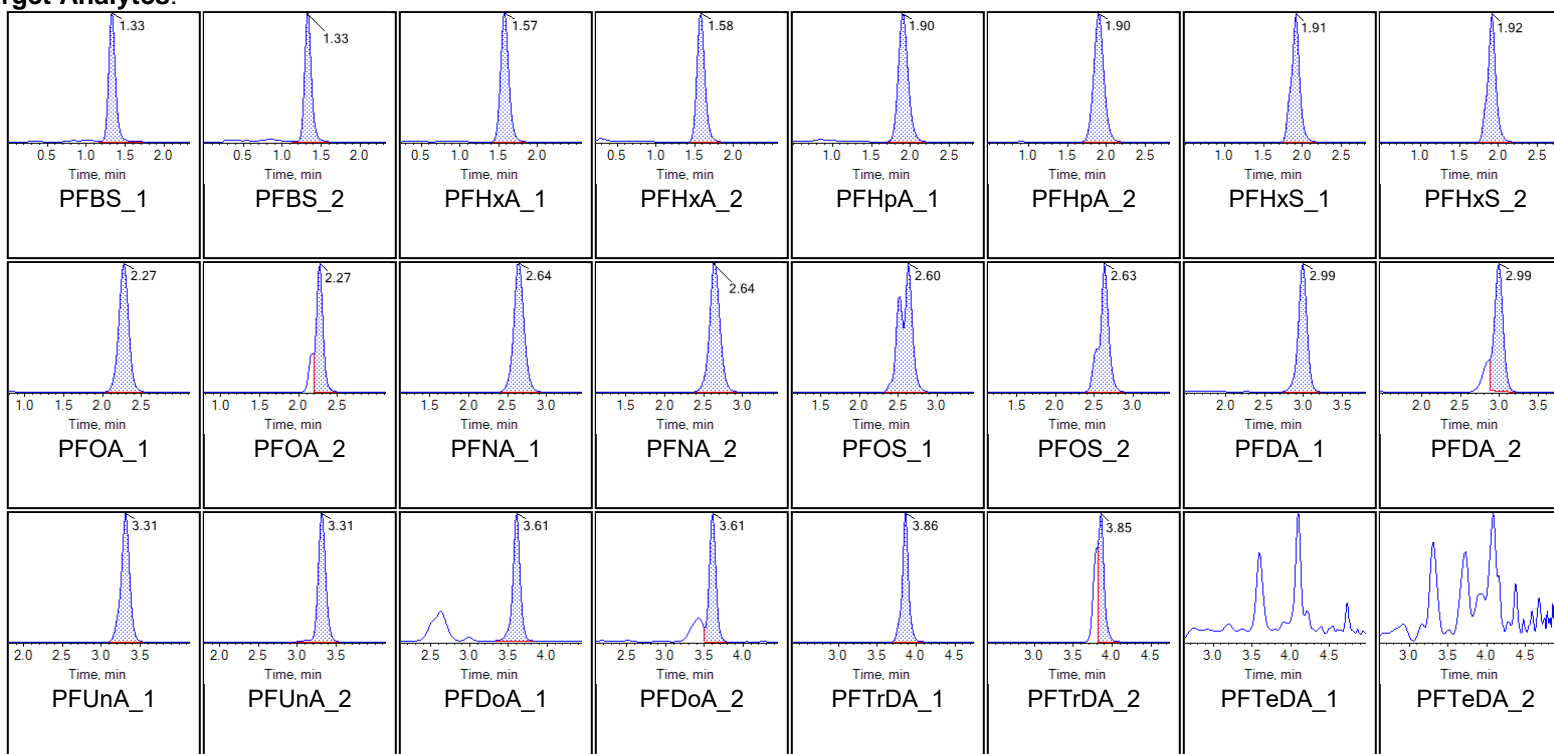
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1663-FS(0)	Injection Vial	36
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:44:38 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

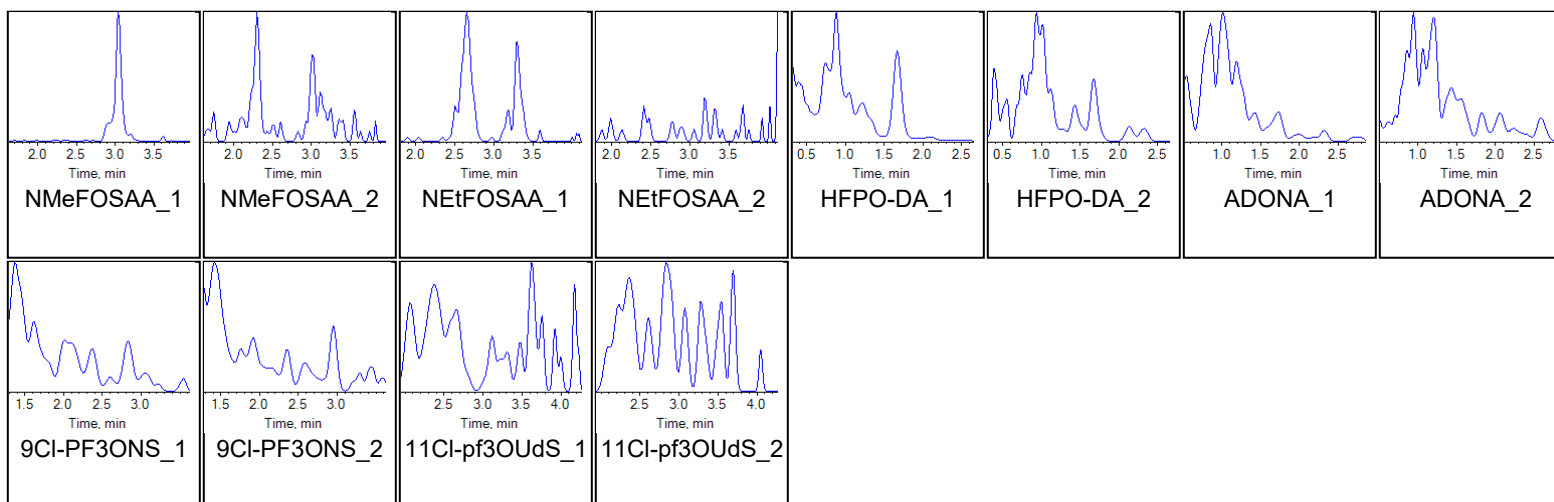
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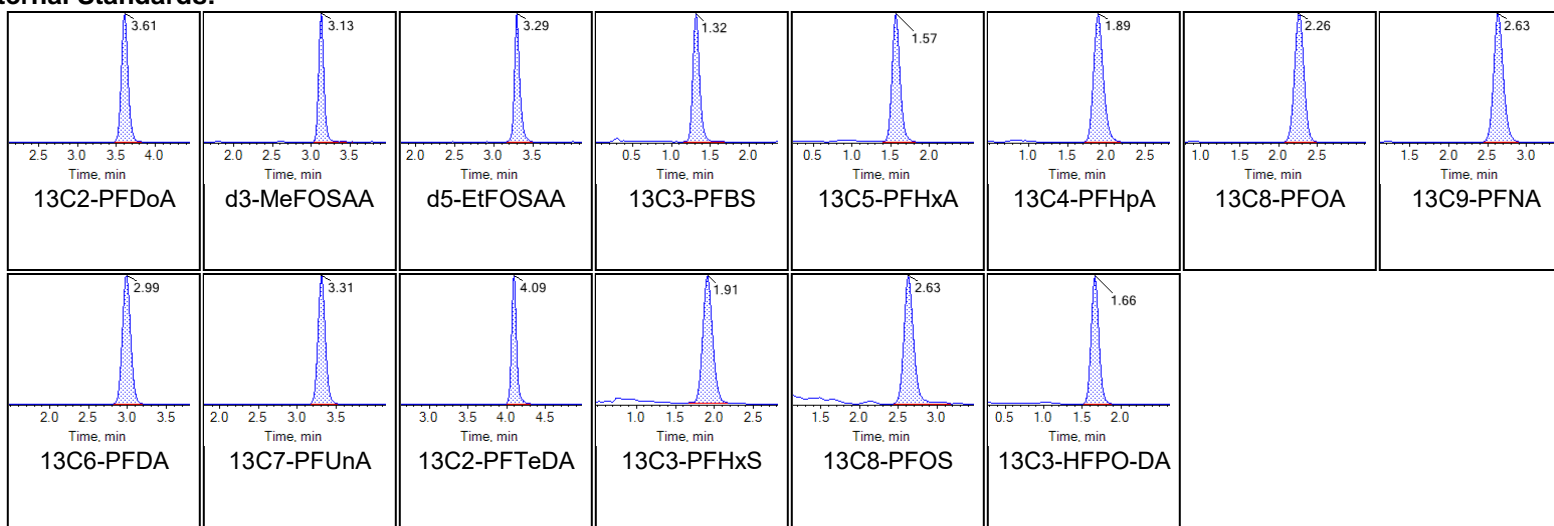


Chromatogram Report

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Internal Standards:





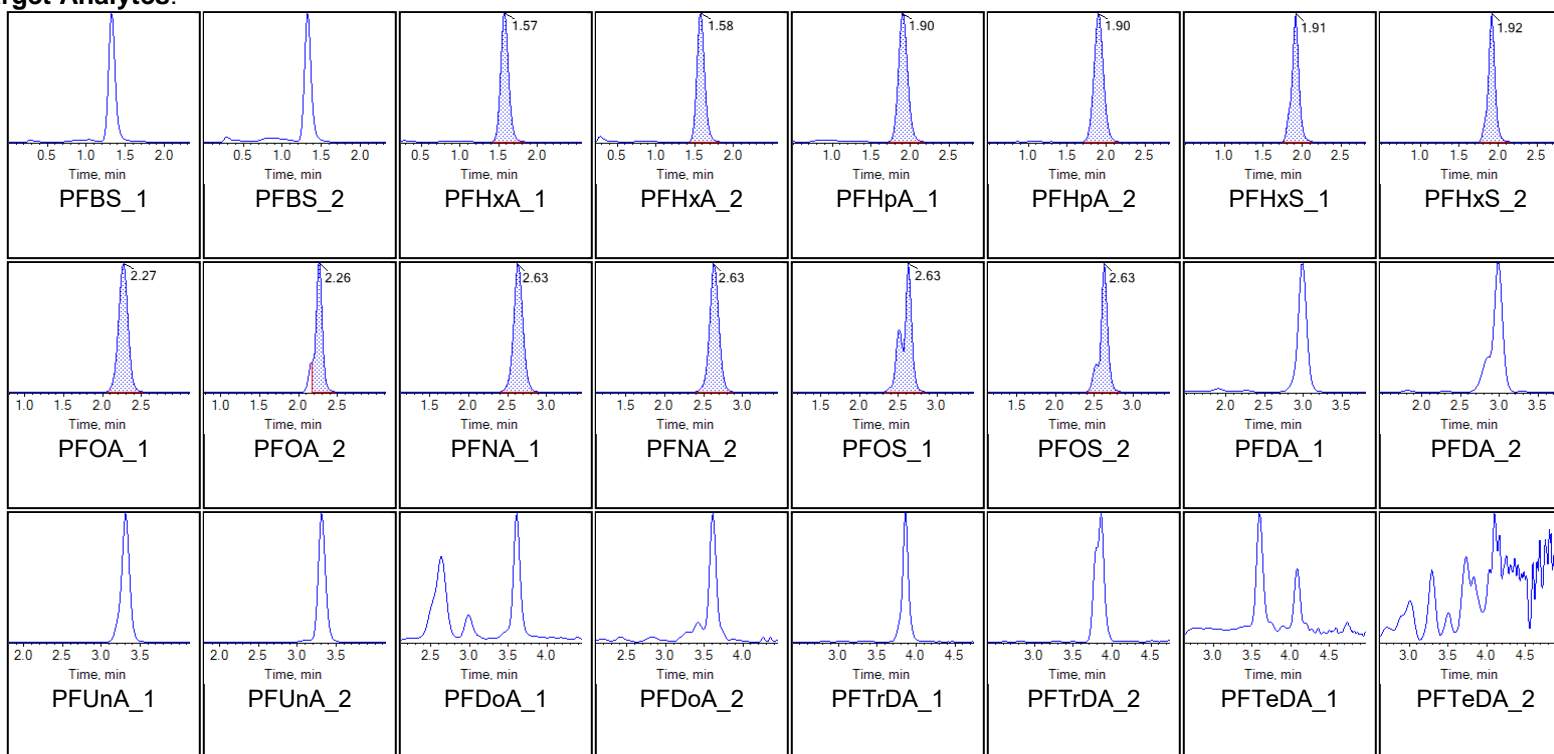
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1663-FS-D(3)	Injection Vial	37
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:55:08 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

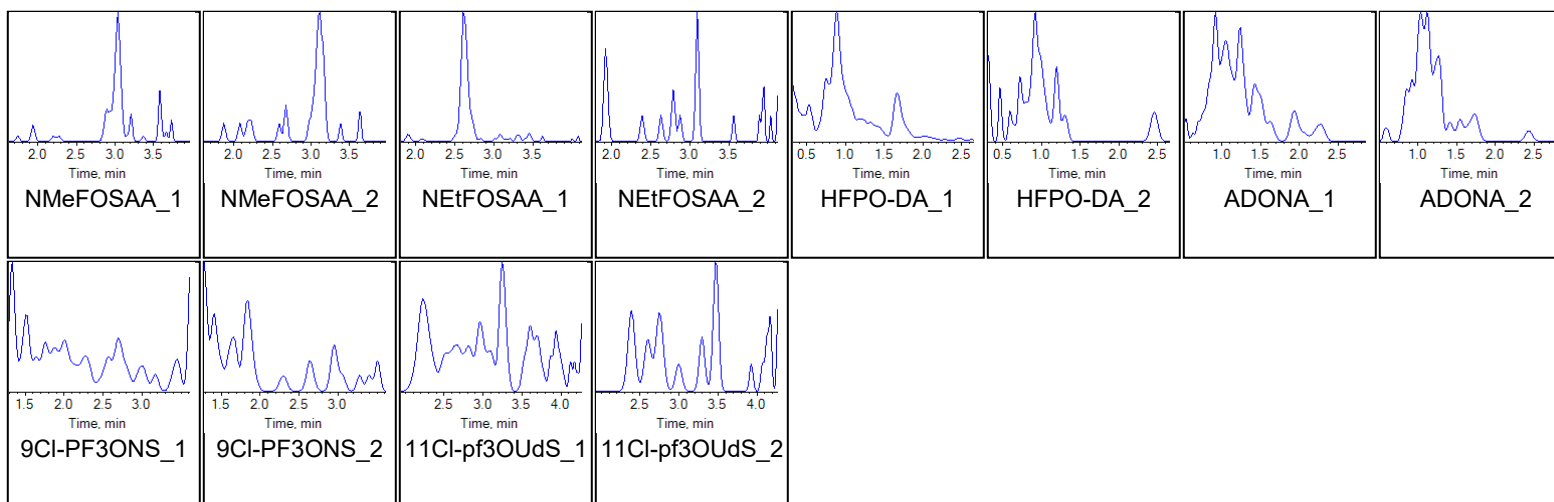
Chromatograms

Target Analytes:

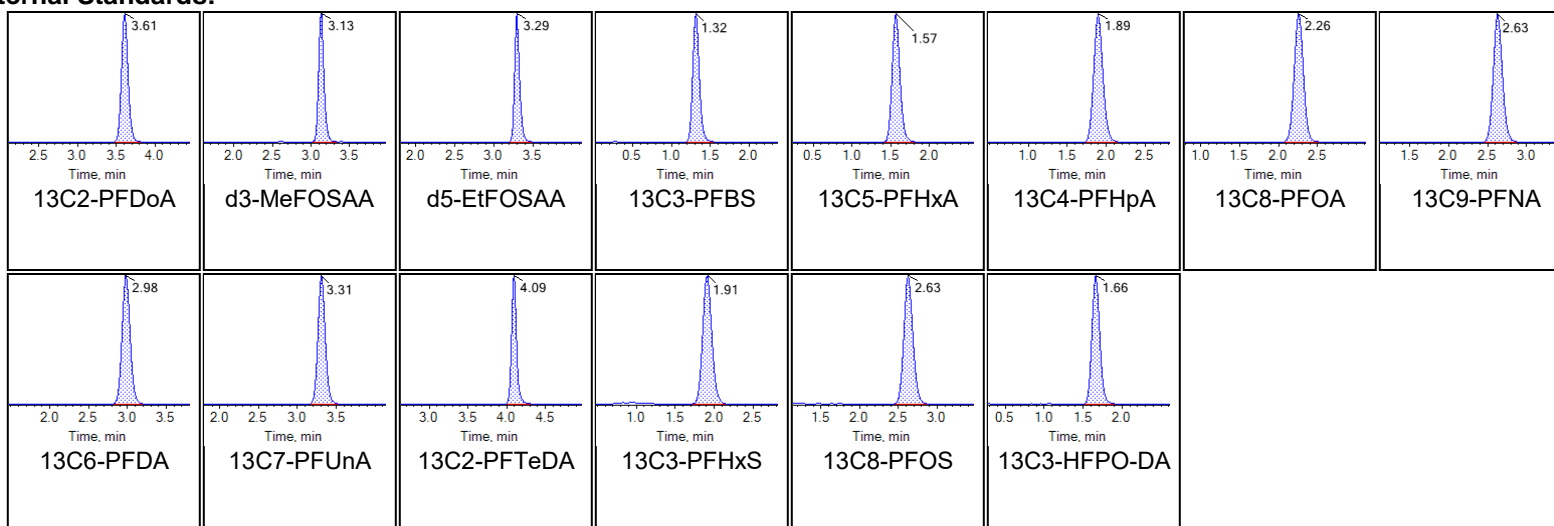




Chromatogram Report

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Internal Standards:





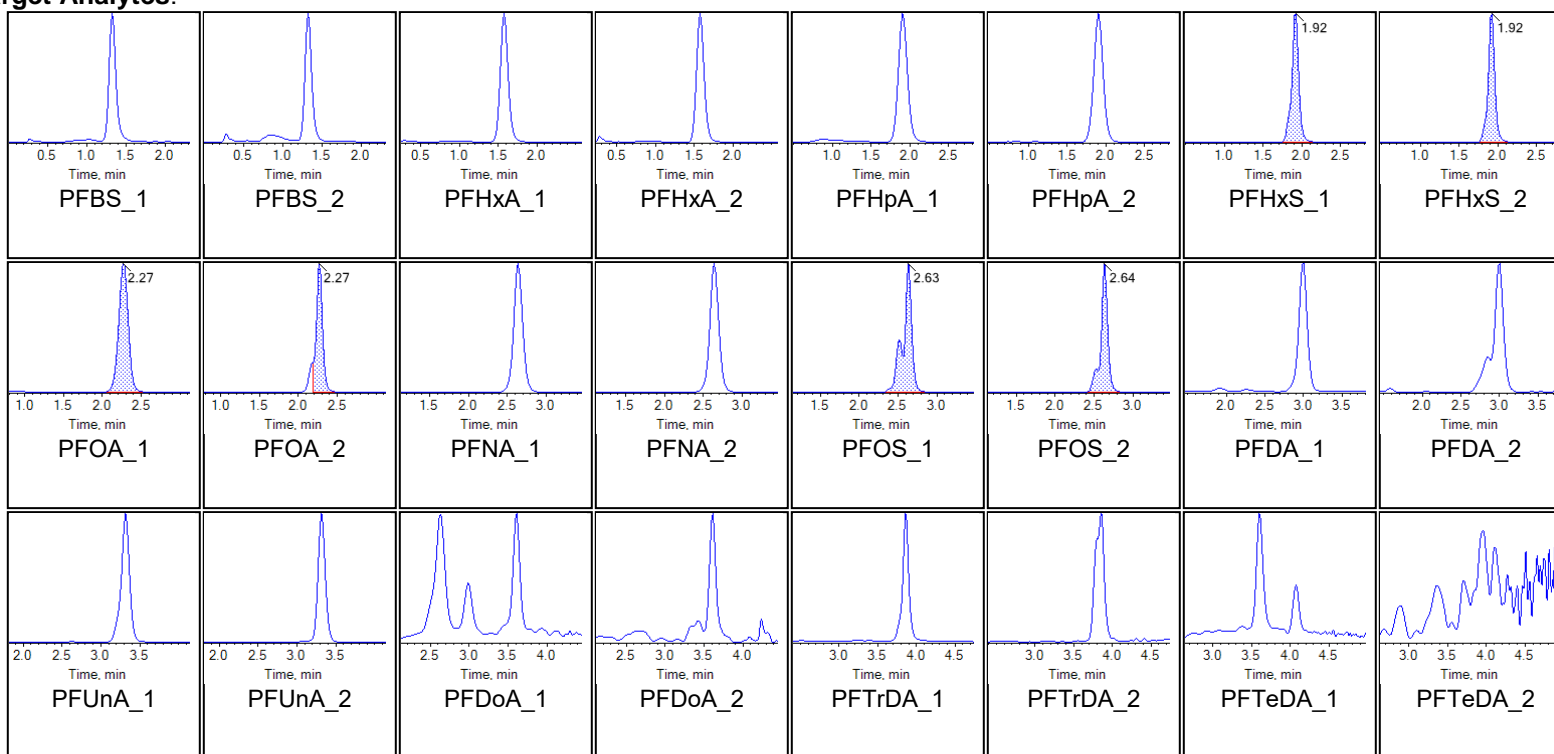
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1663-FS-D(5)	Injection Vial	38
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:05:38 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

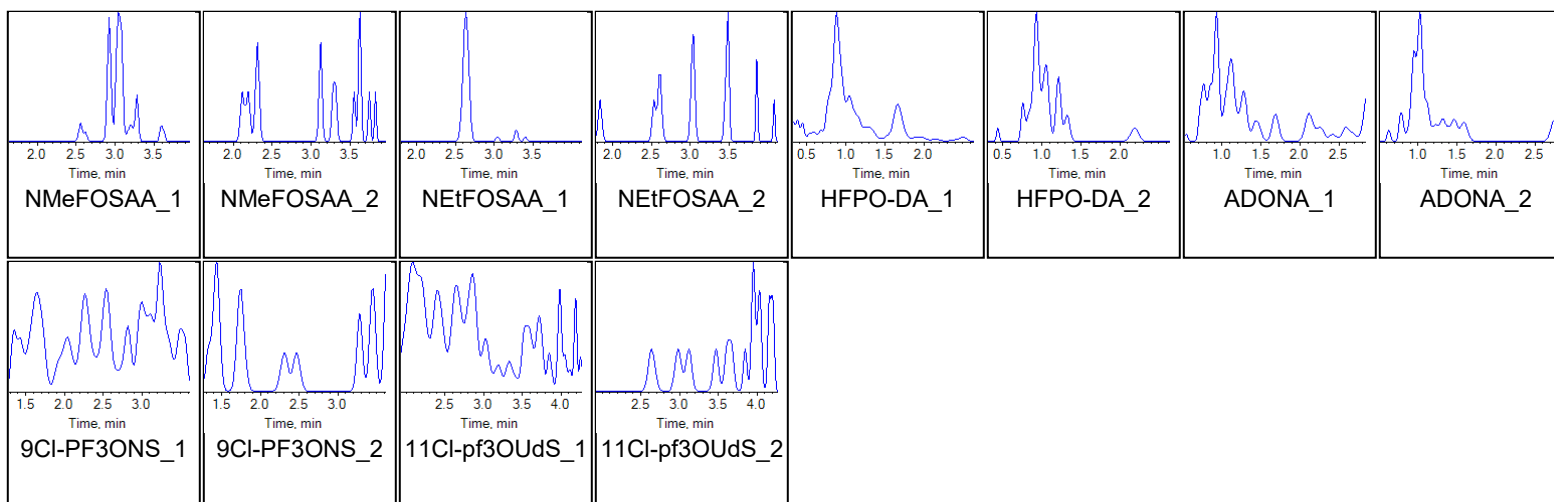
Chromatograms

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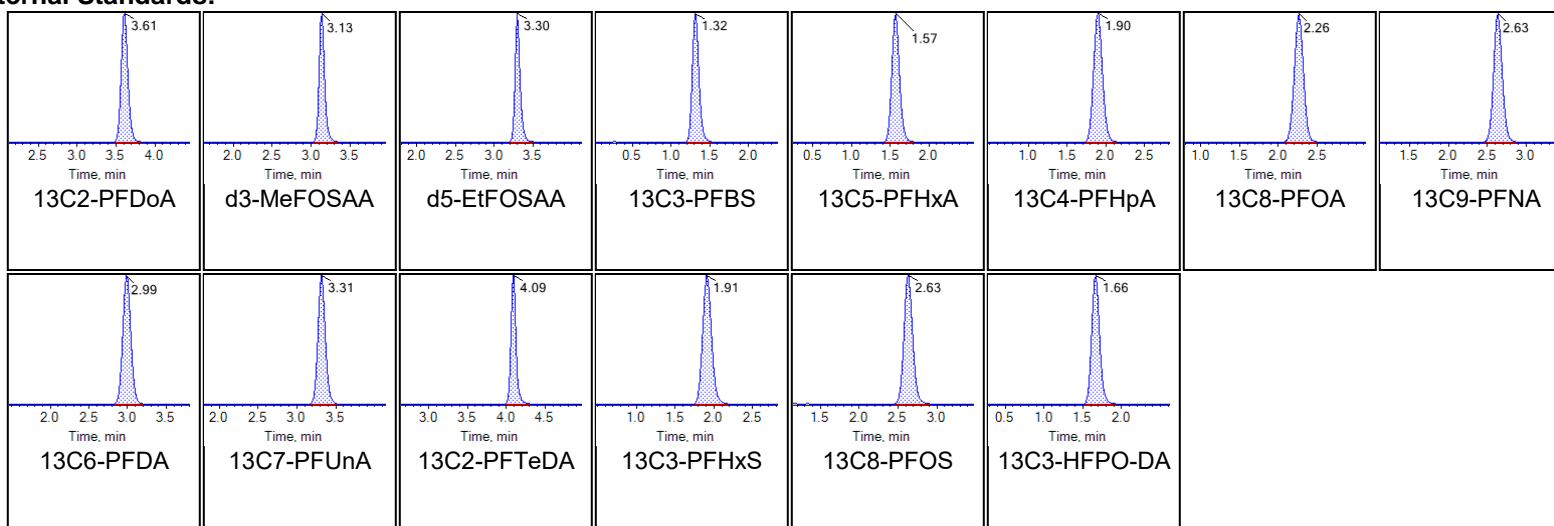




Chromatogram Report

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Internal Standards:





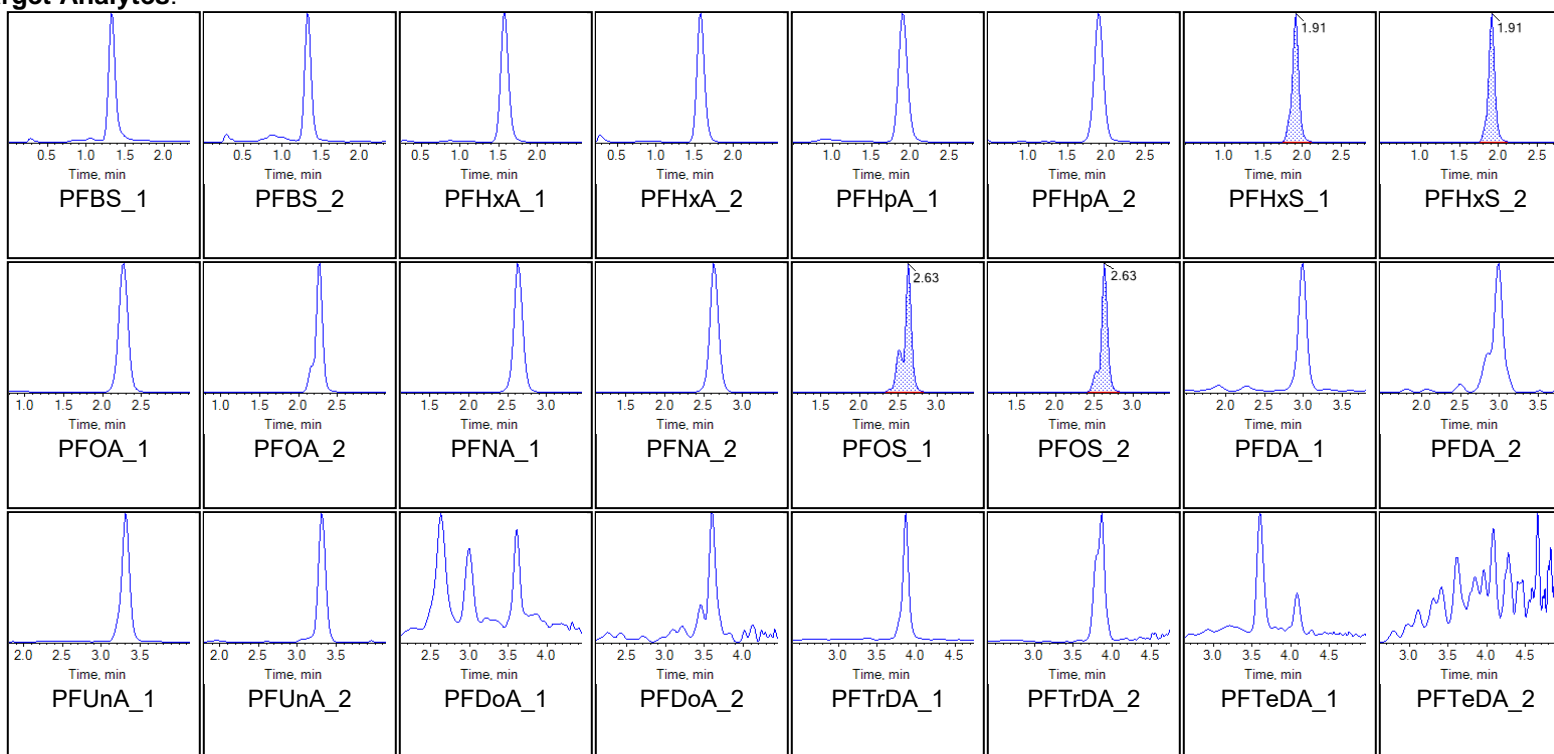
Chromatogram Report

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Sample Name	G1663-FS-D(7)	Injection Vial	39
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:16:05 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

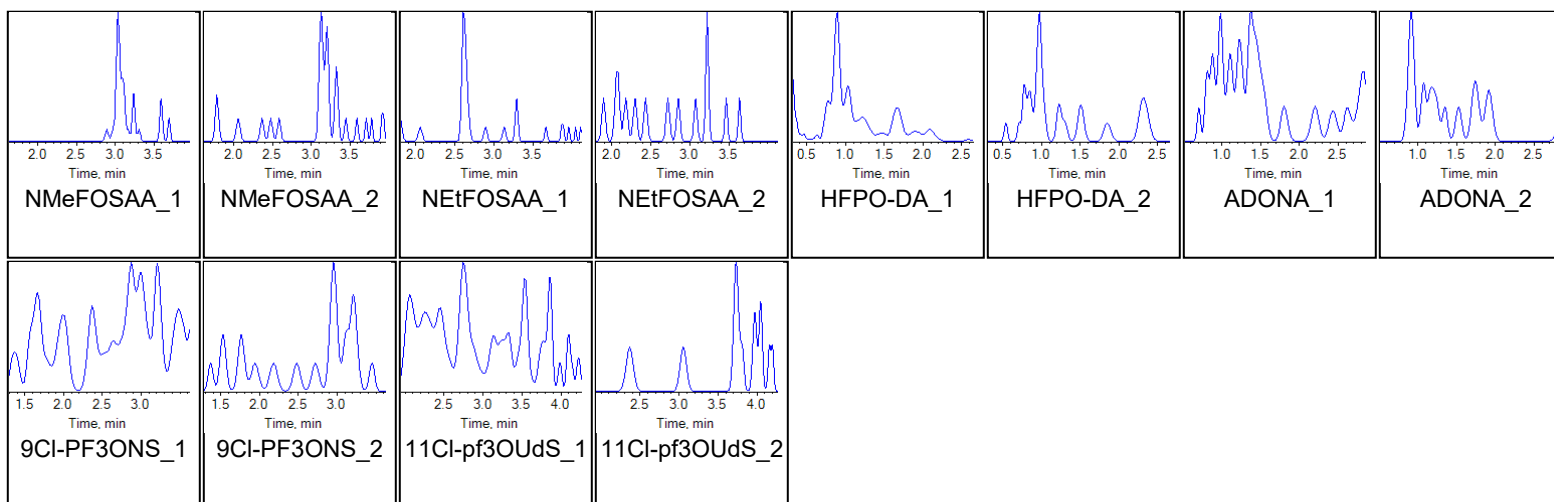
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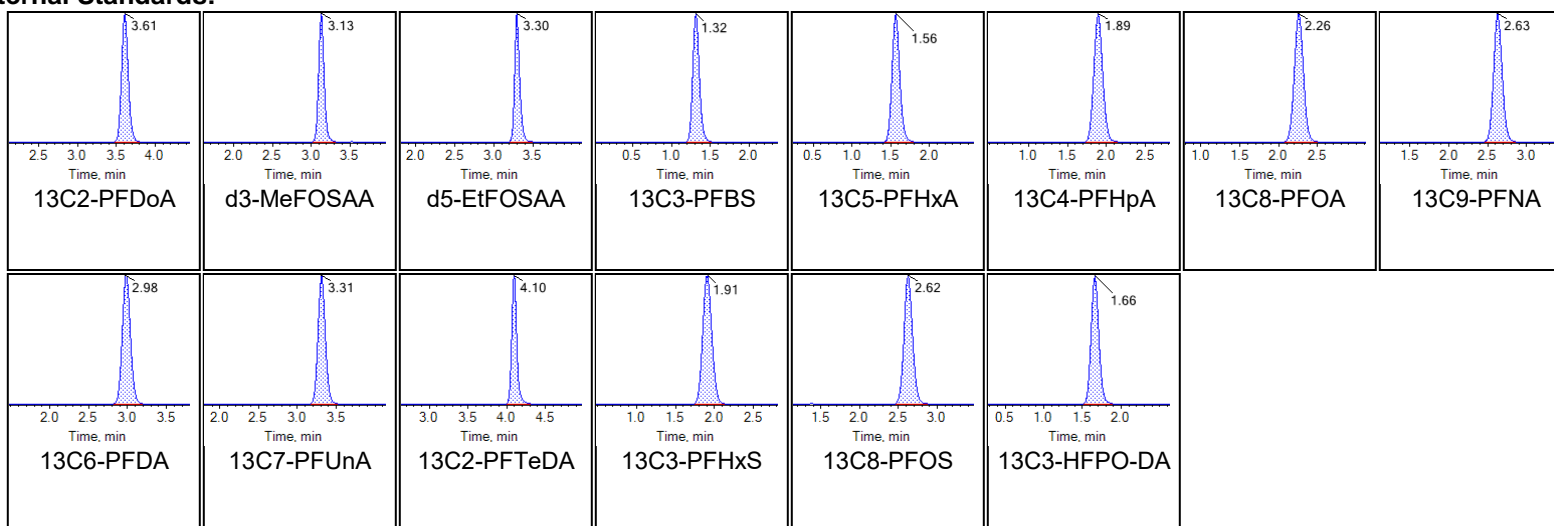




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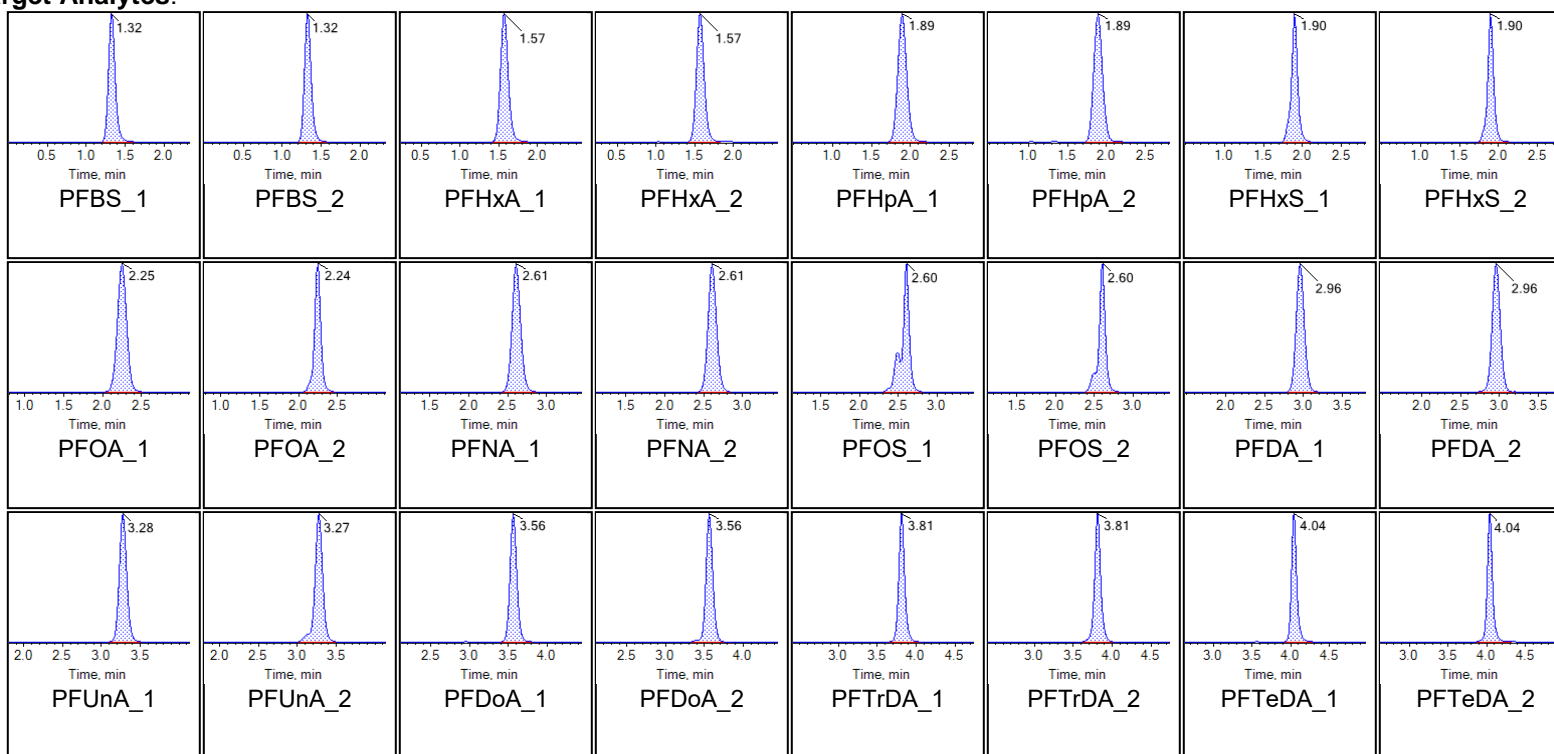
Chromatogram Report

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Sample Name	LD77 CCV	Injection Vial	41
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:37:00 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

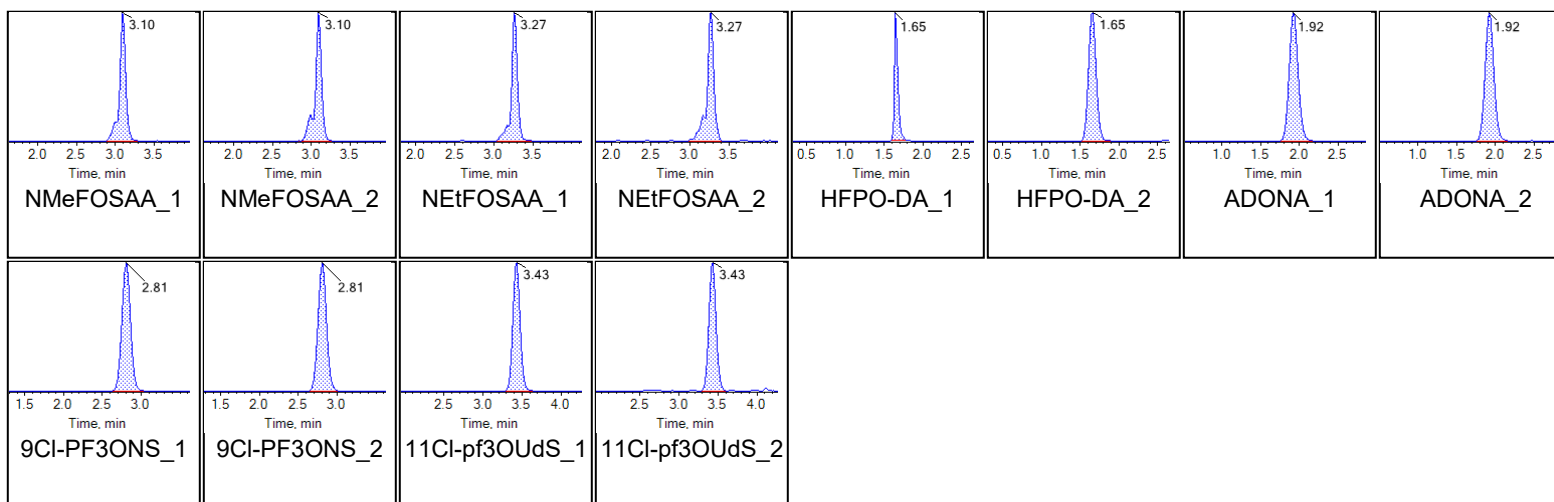
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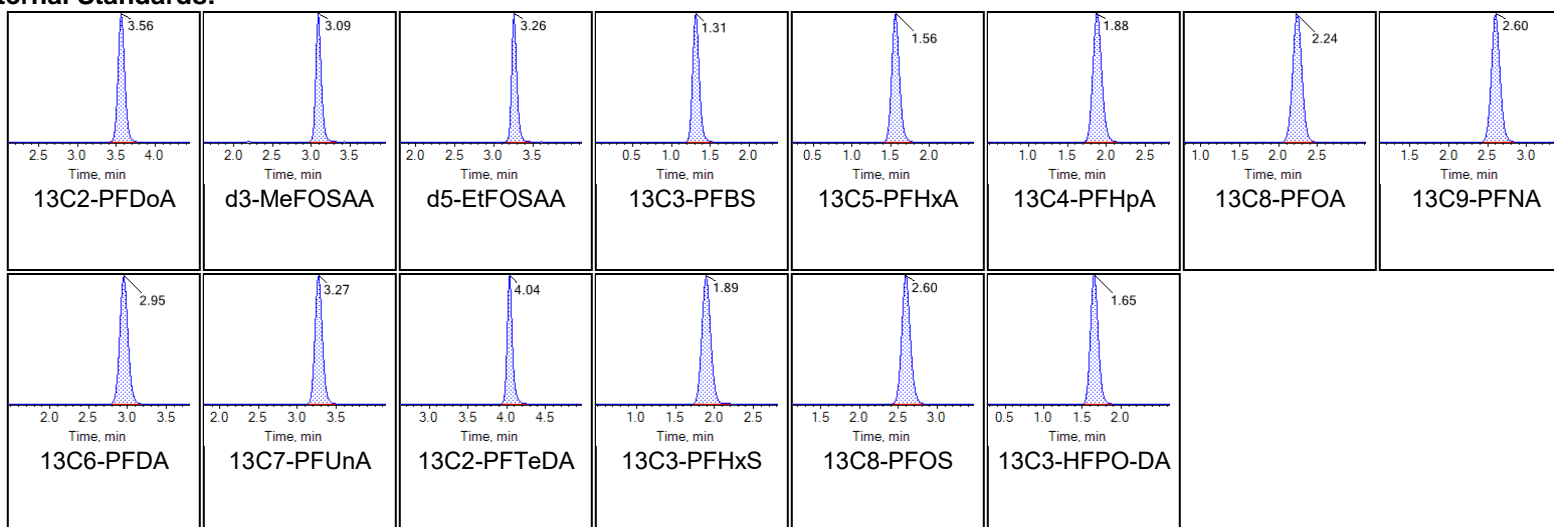




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Internal Standards:





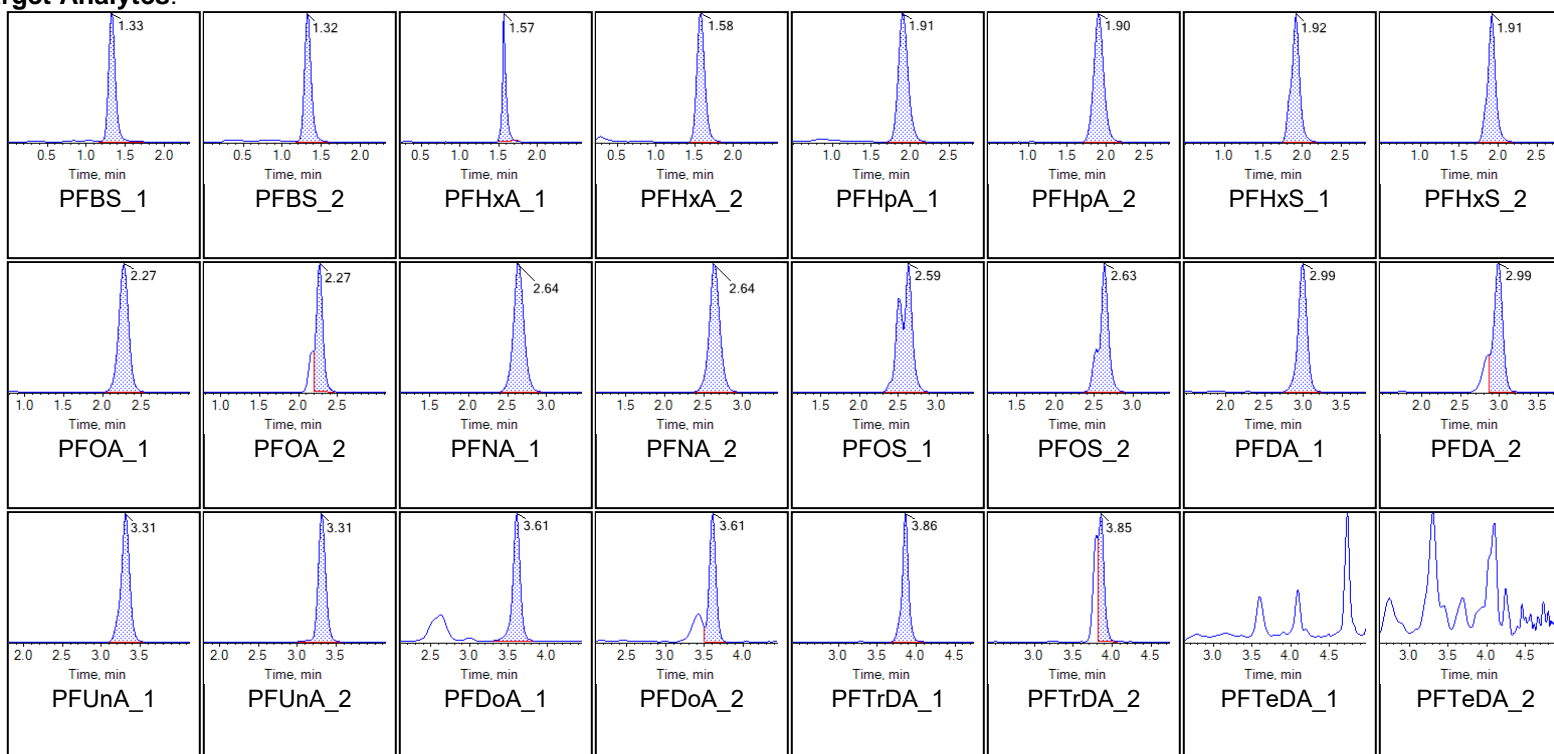
Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Sample Name	G1664-FS(0)	Injection Vial	42
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:47:28 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

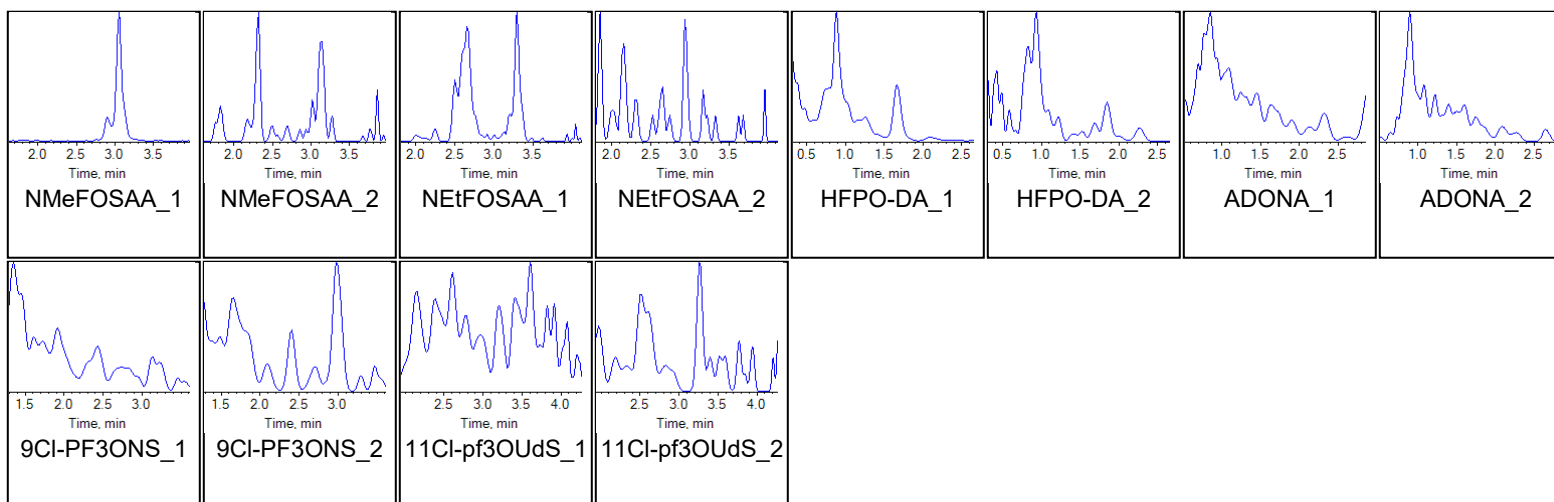
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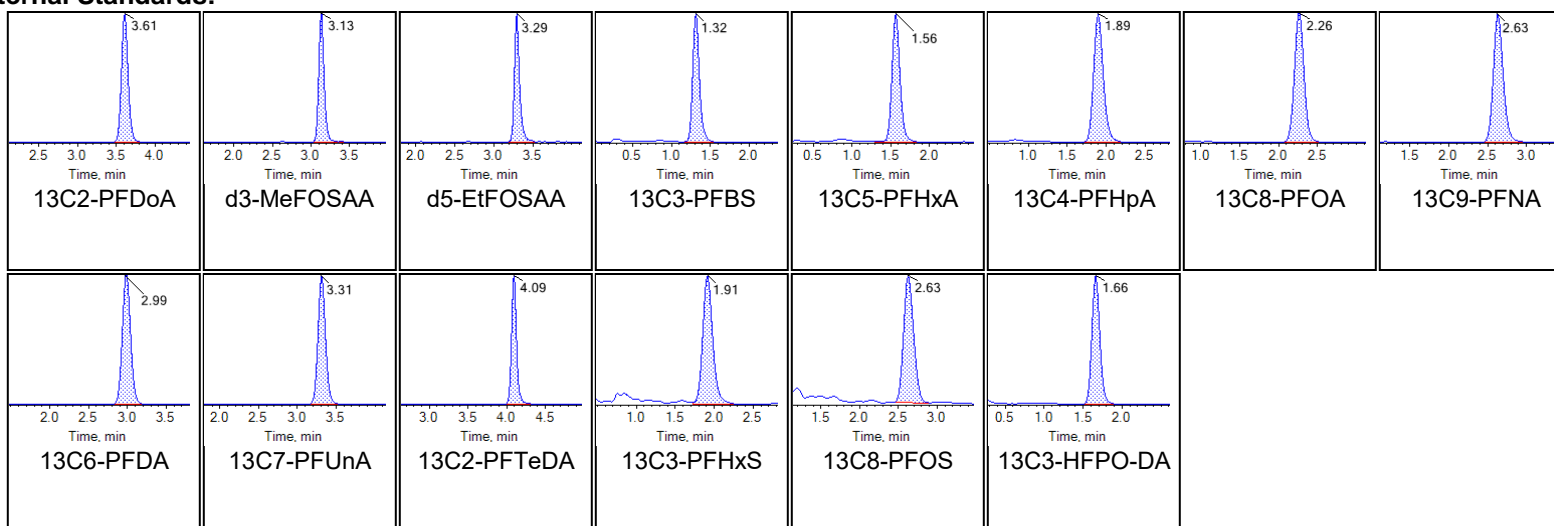




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Internal Standards:





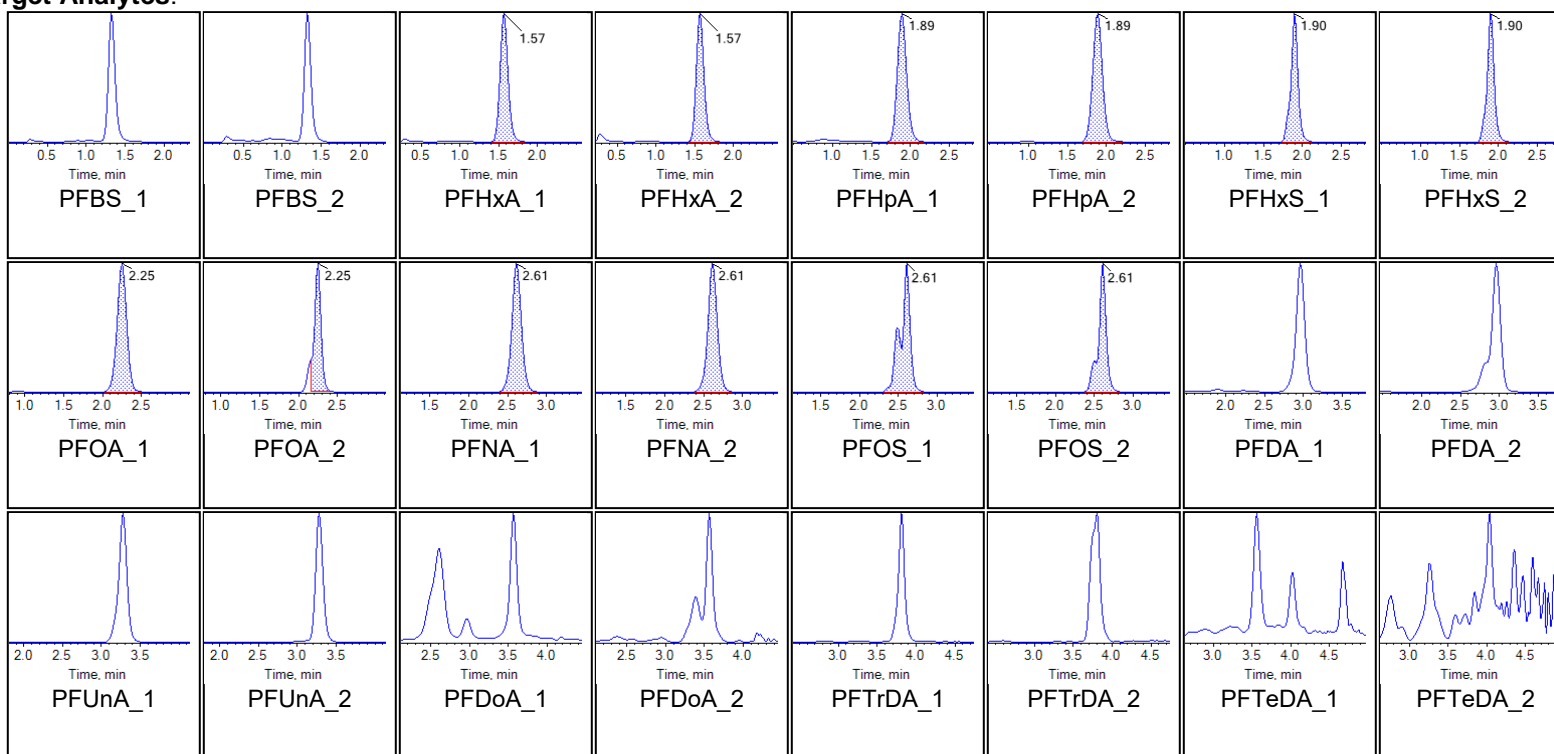
Chromatogram Report

Created with Analyst Reporter
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Sample Name	G1664-FS-D(3)	Injection Vial	43
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:57:57 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

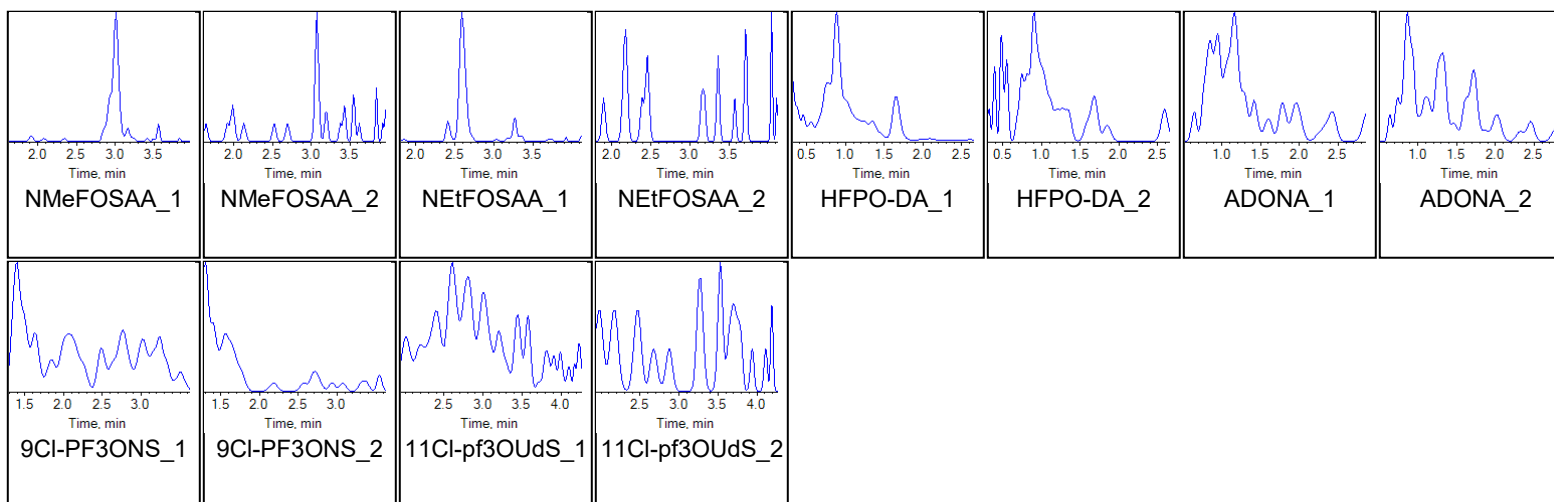
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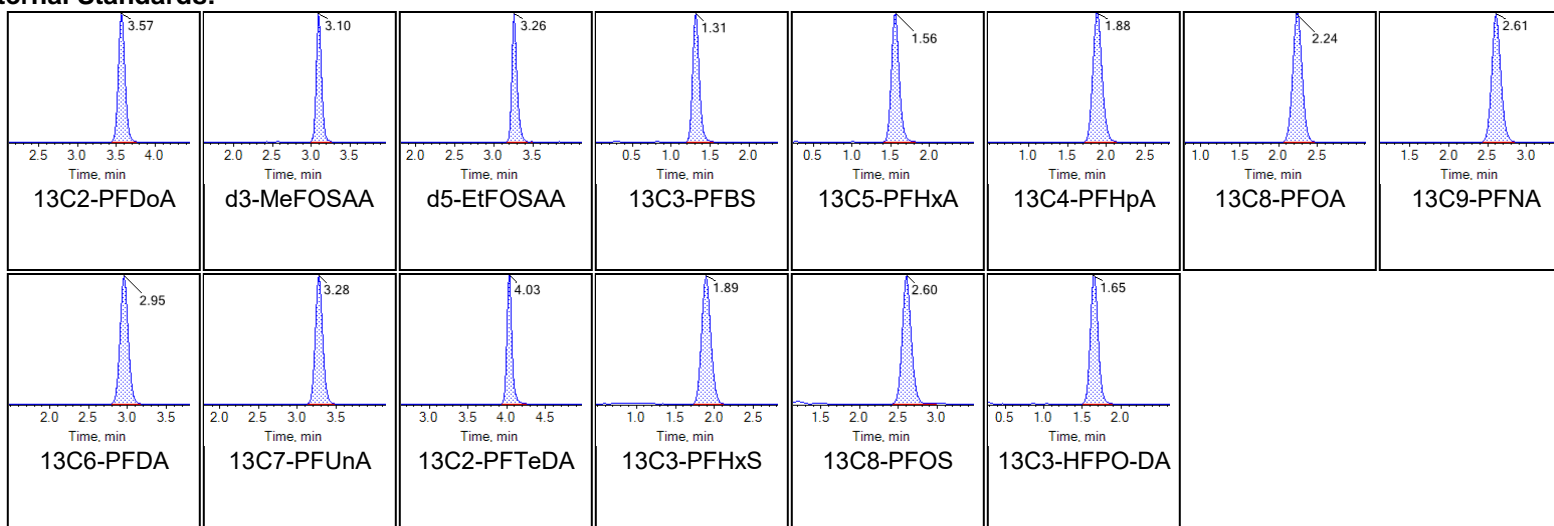




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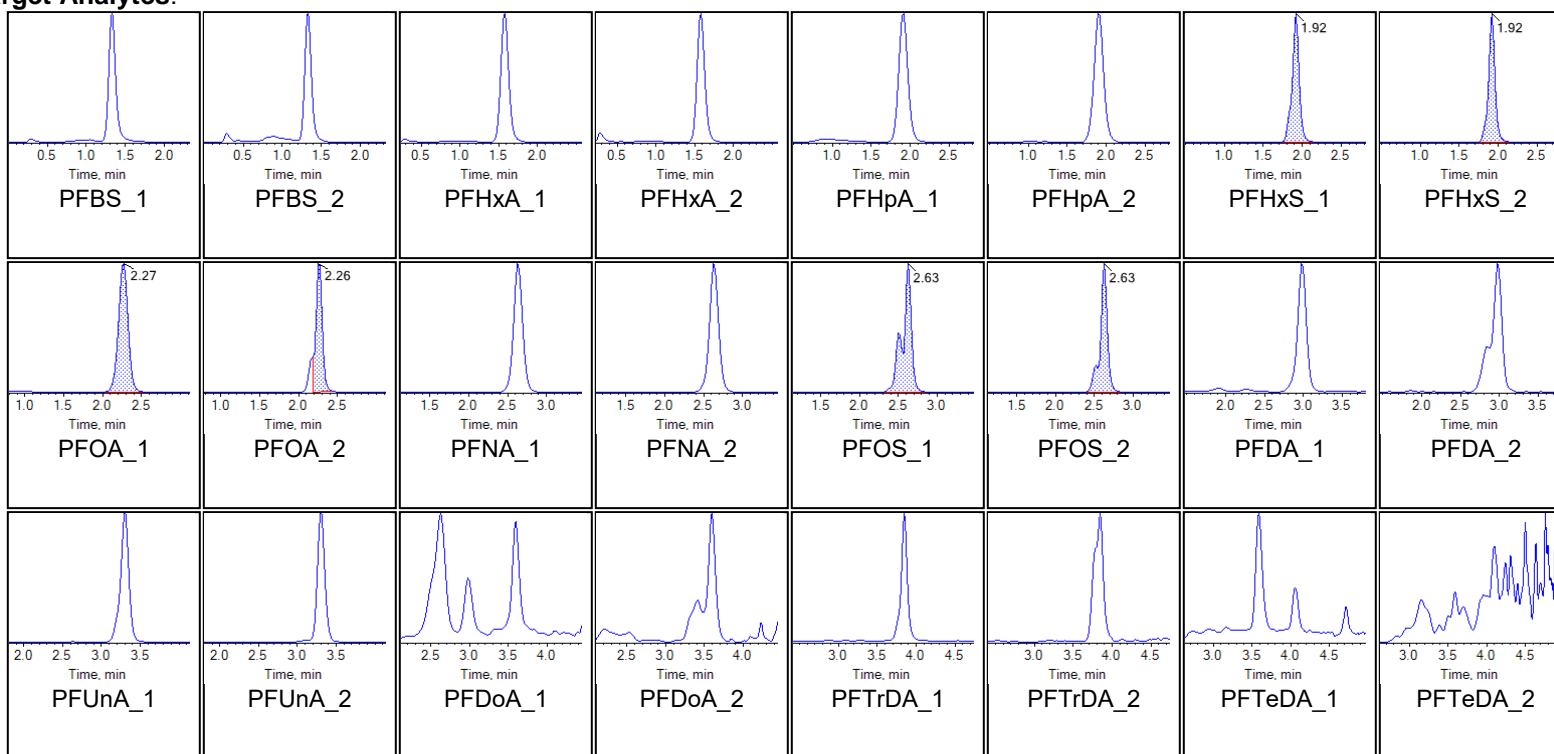
Chromatogram Report

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Sample Name	G1664-FS-D(5)	Injection Vial	44
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:08:26 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

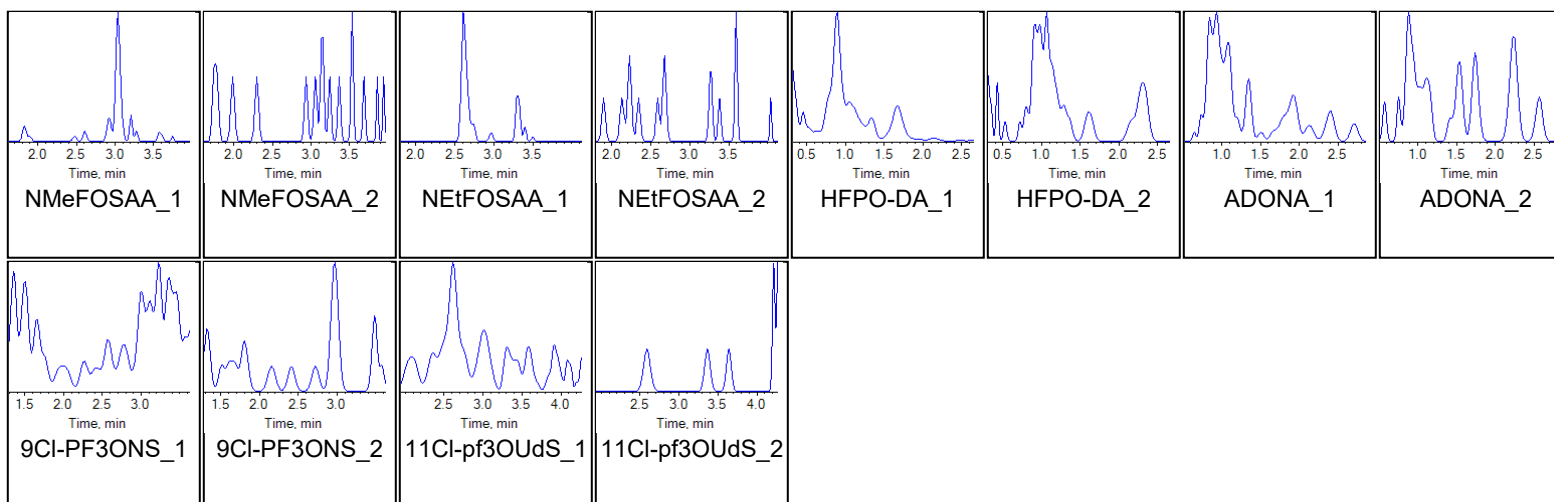
Chromatograms

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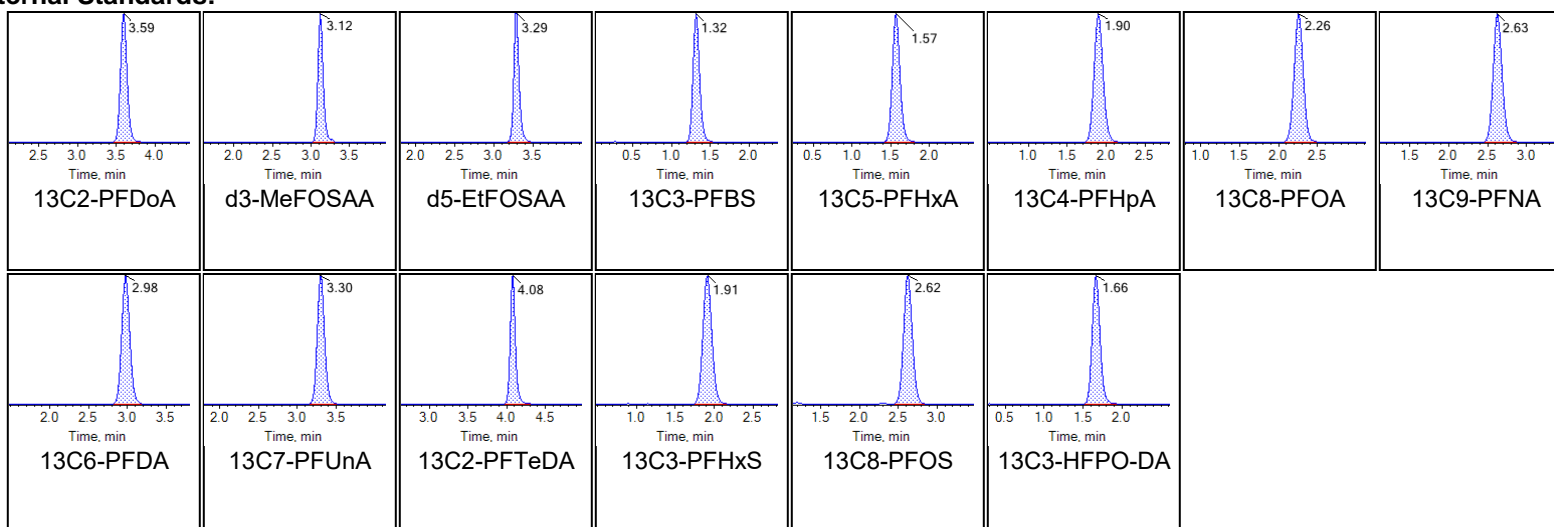




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Internal Standards:





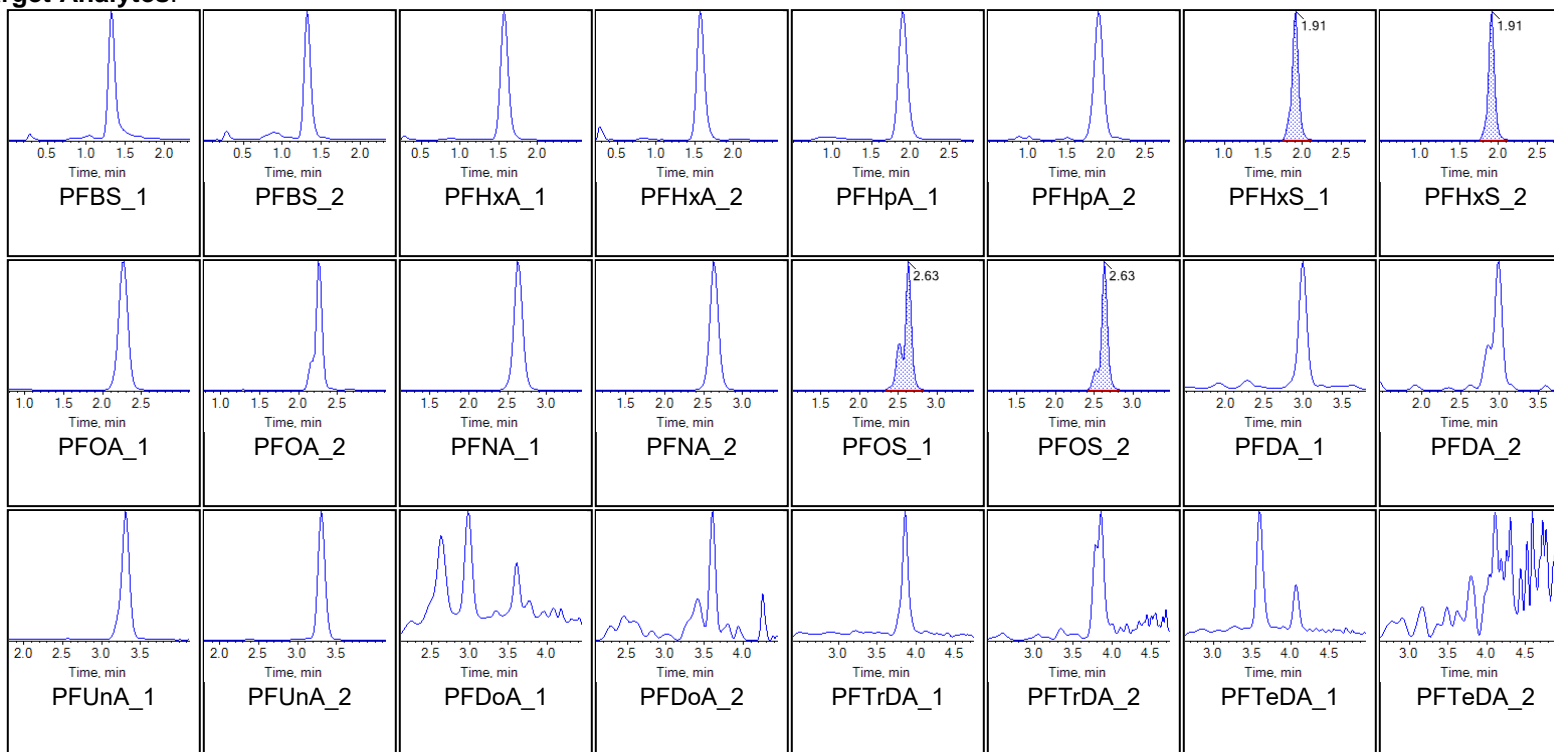
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1664-FS-D(7)	Injection Vial	45
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:18:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

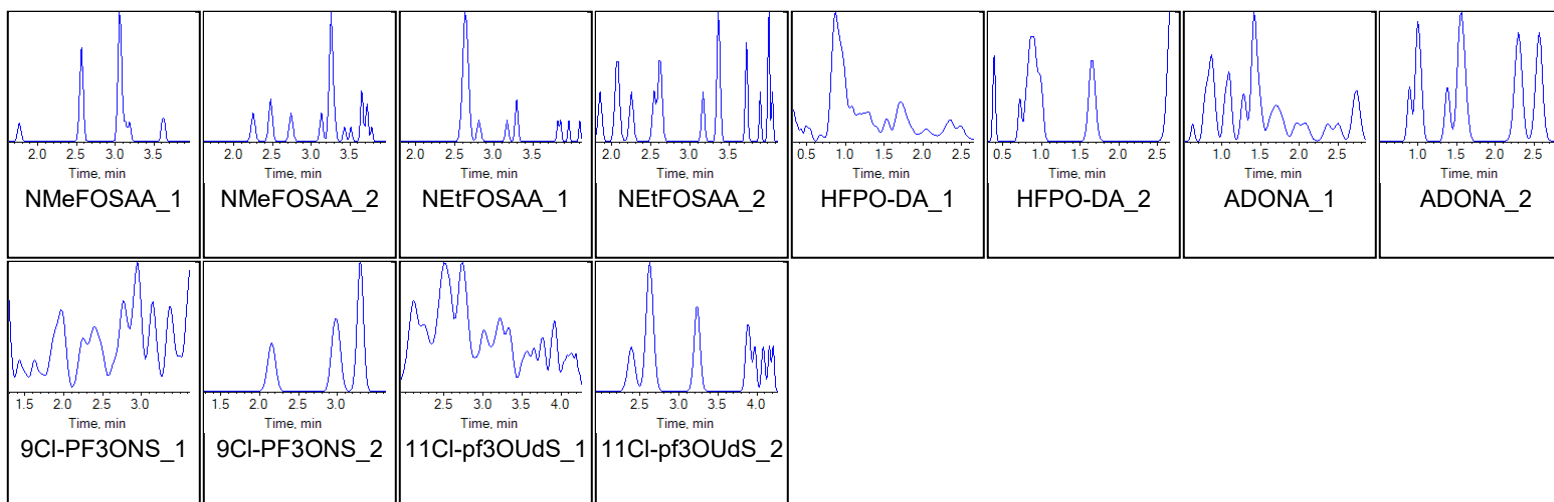
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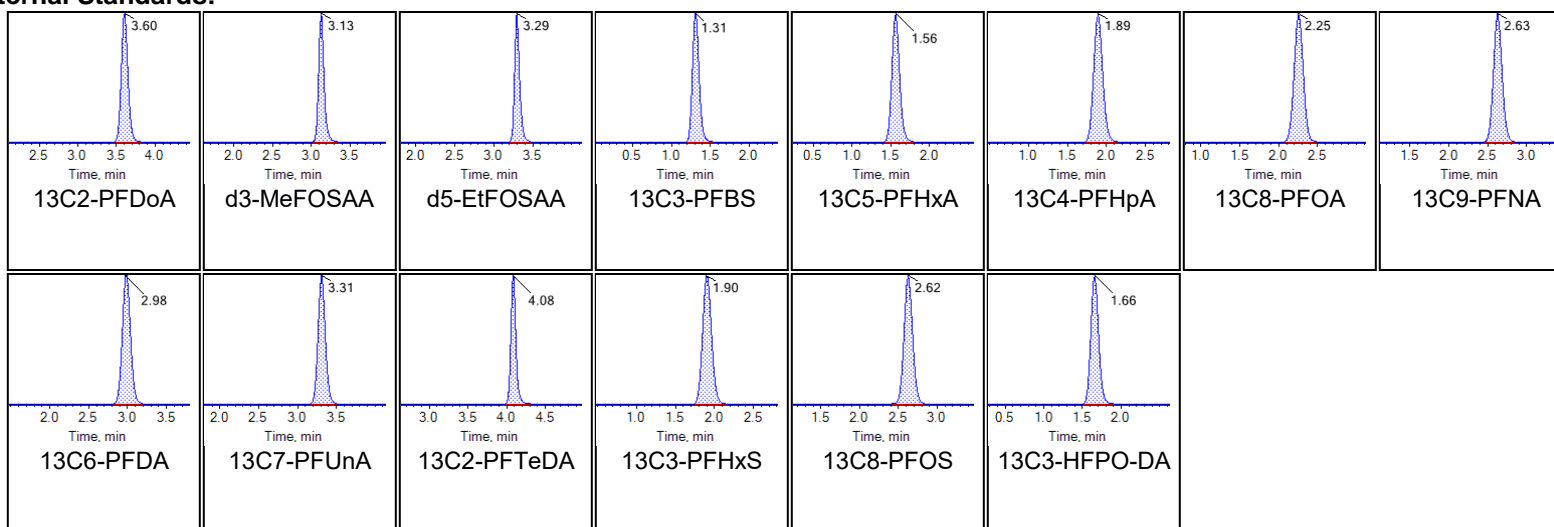




Chromatogram Report

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Internal Standards:





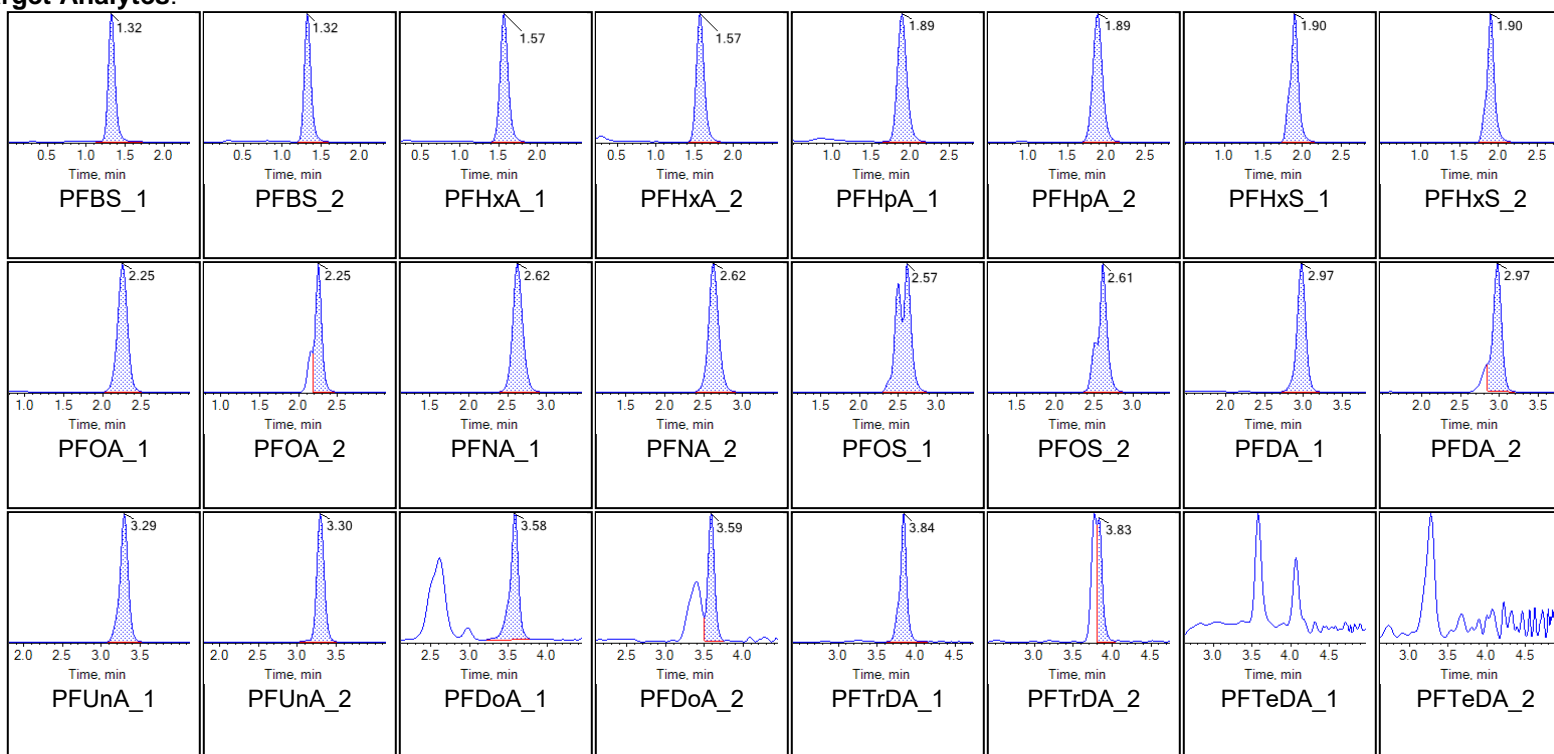
Chromatogram Report

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Sample Name	G1665-FS(0)	Injection Vial	46
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:29:25 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

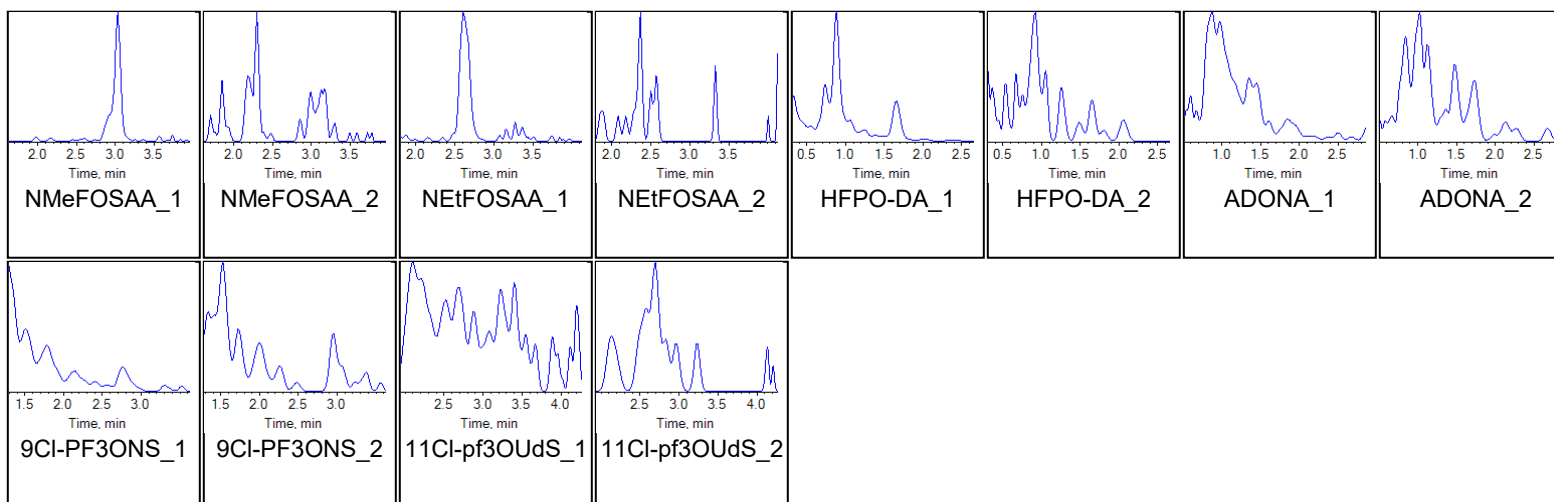
Chromatograms

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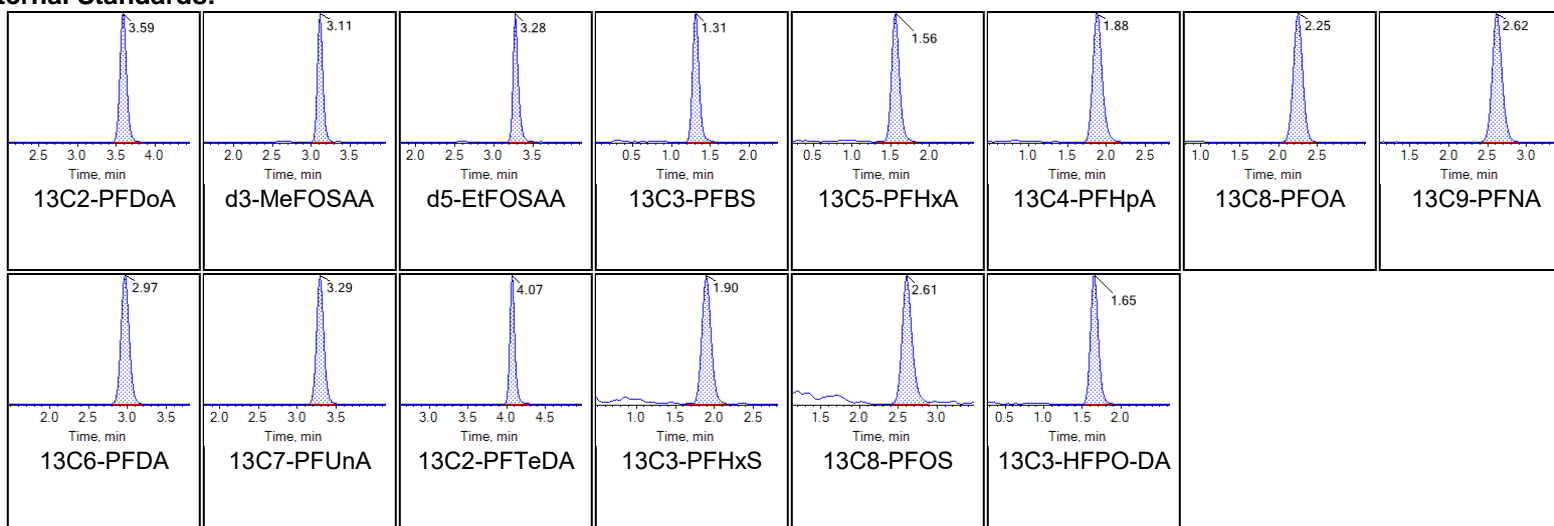




Chromatogram Report

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Printed: 04/11/2020 5:08:23 PM

Internal Standards:





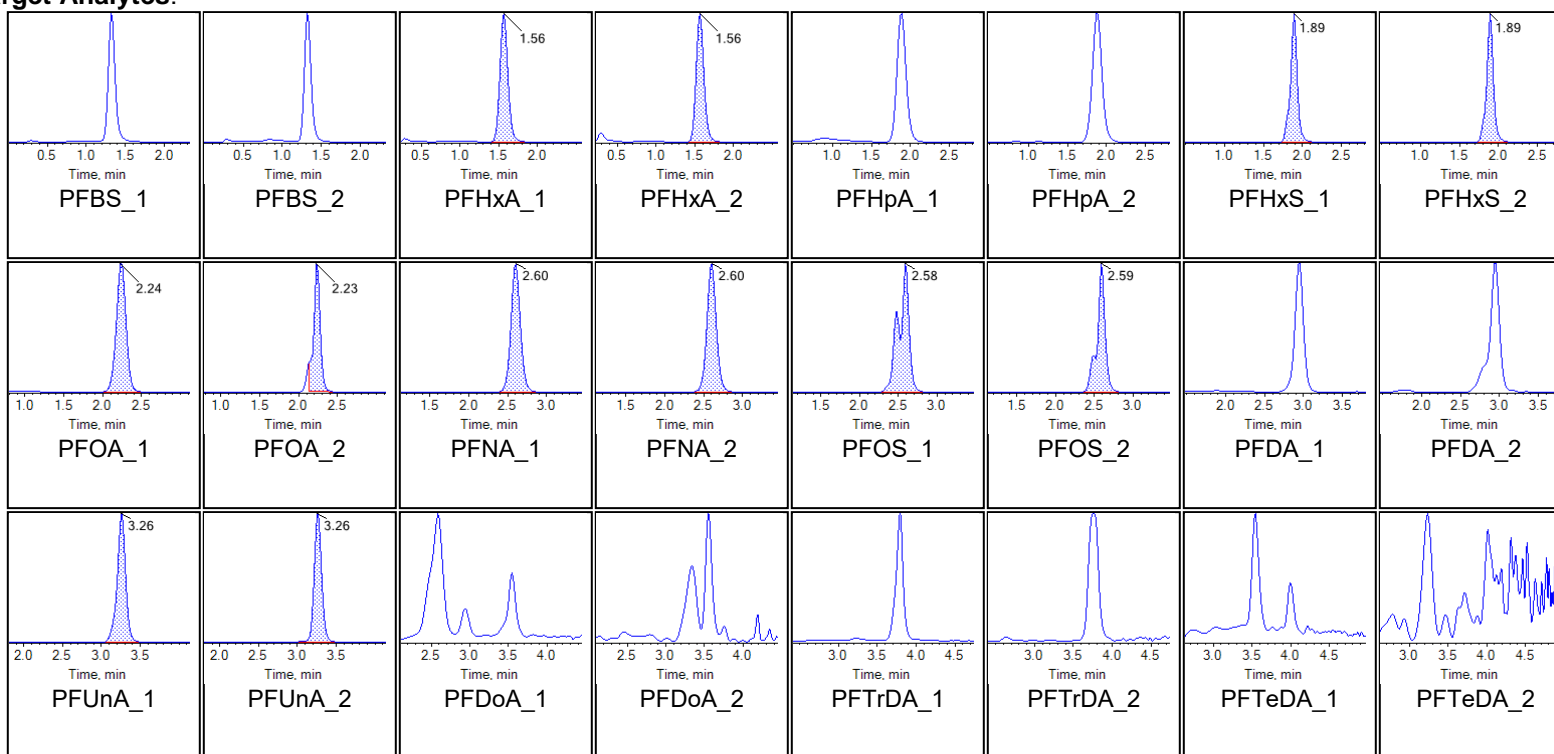
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1665-FS-D(3)	Injection Vial	47
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:39:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

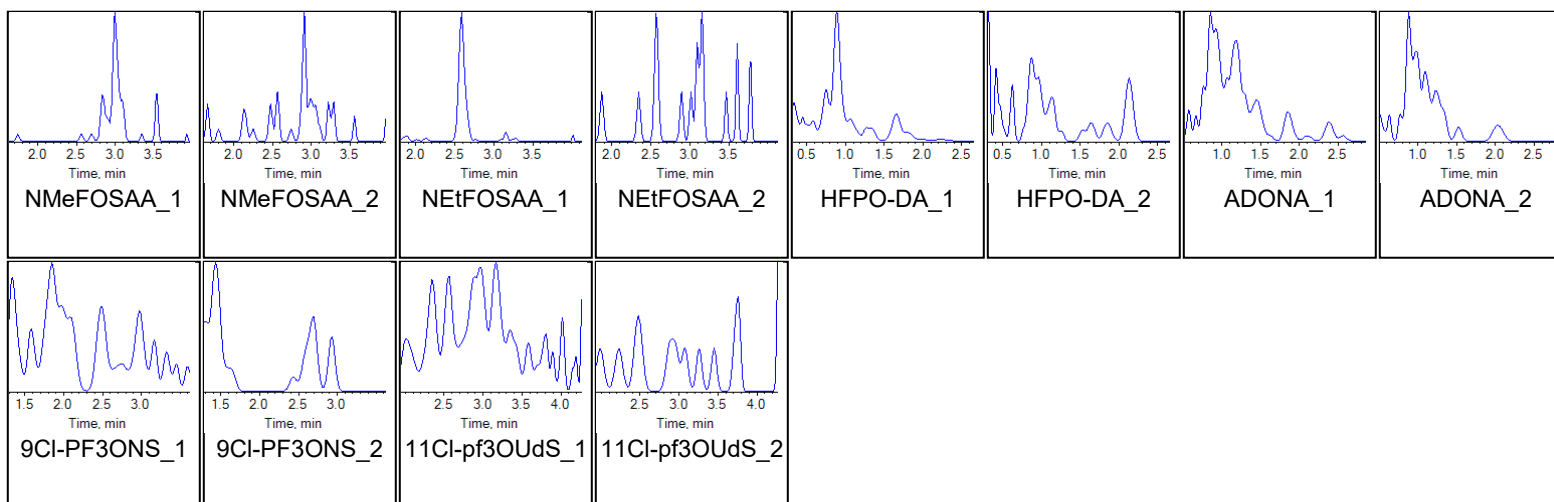
Chromatograms

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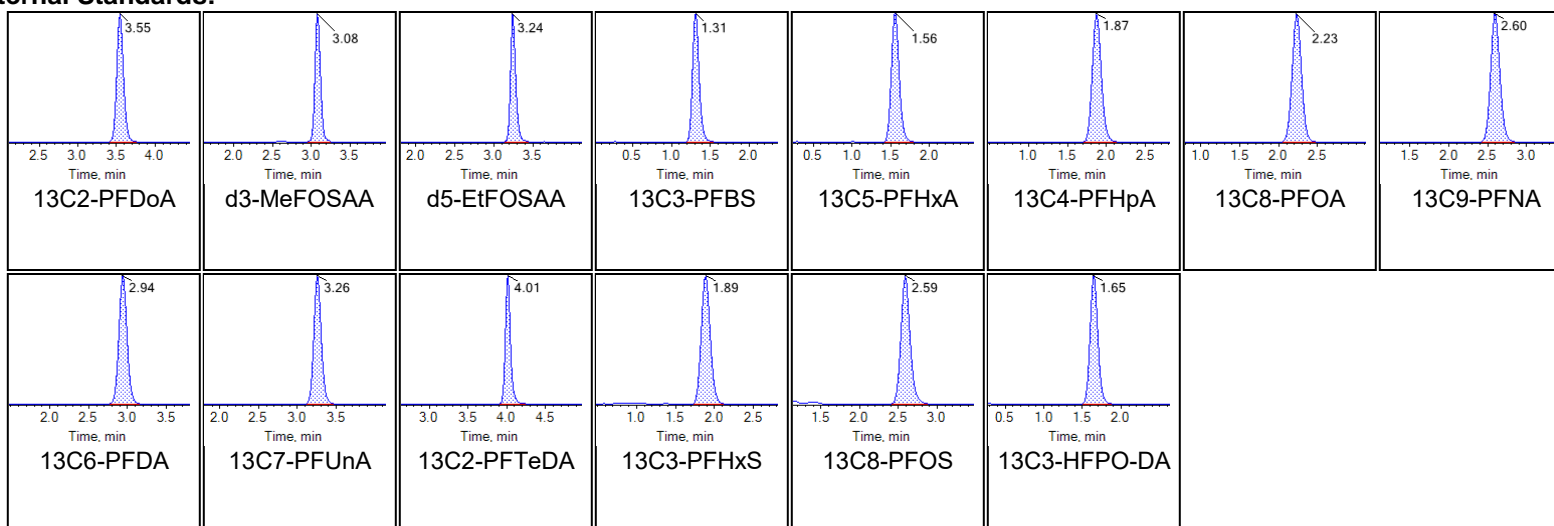




Chromatogram Report

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Internal Standards:





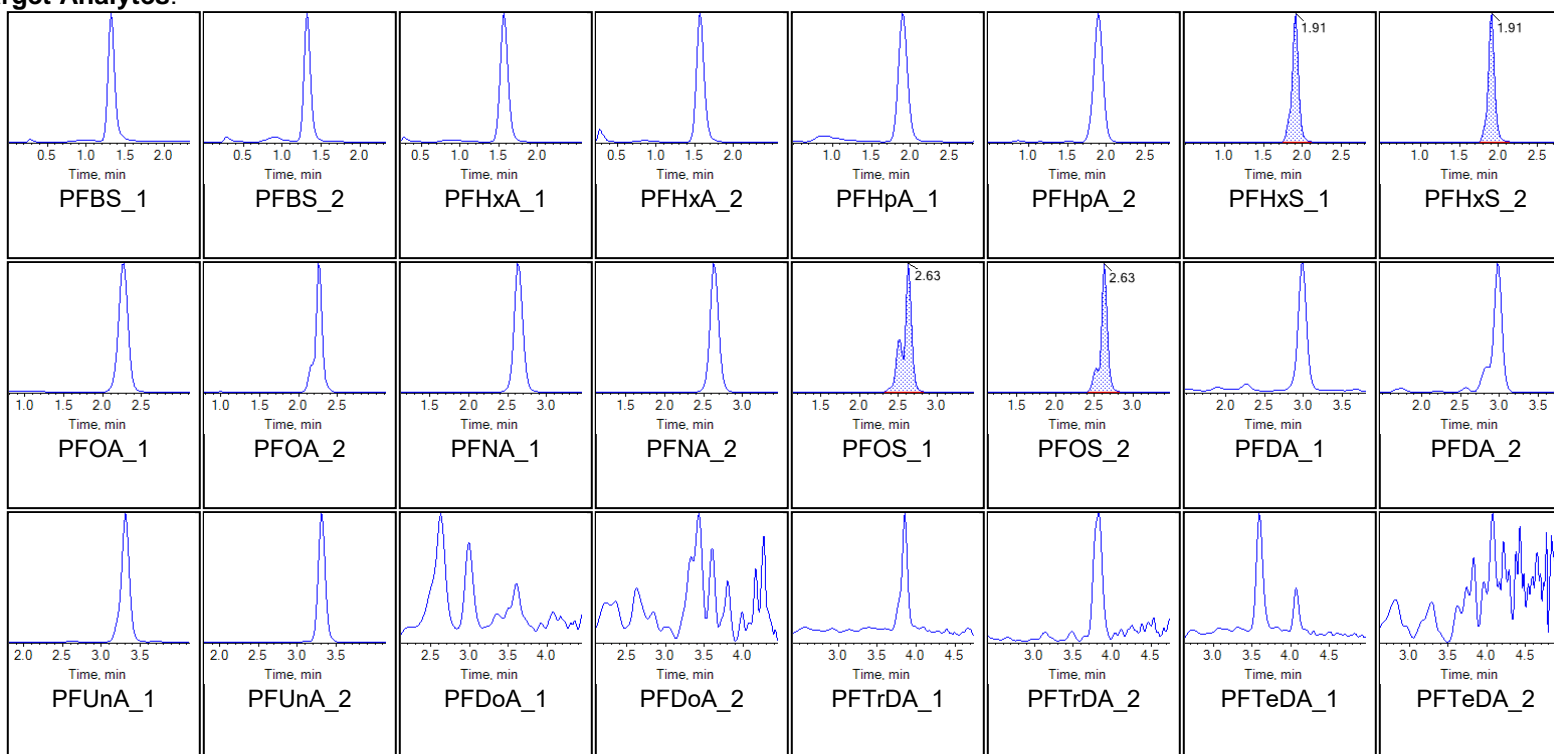
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1665-FS-D(7)	Injection Vial	49
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:00:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

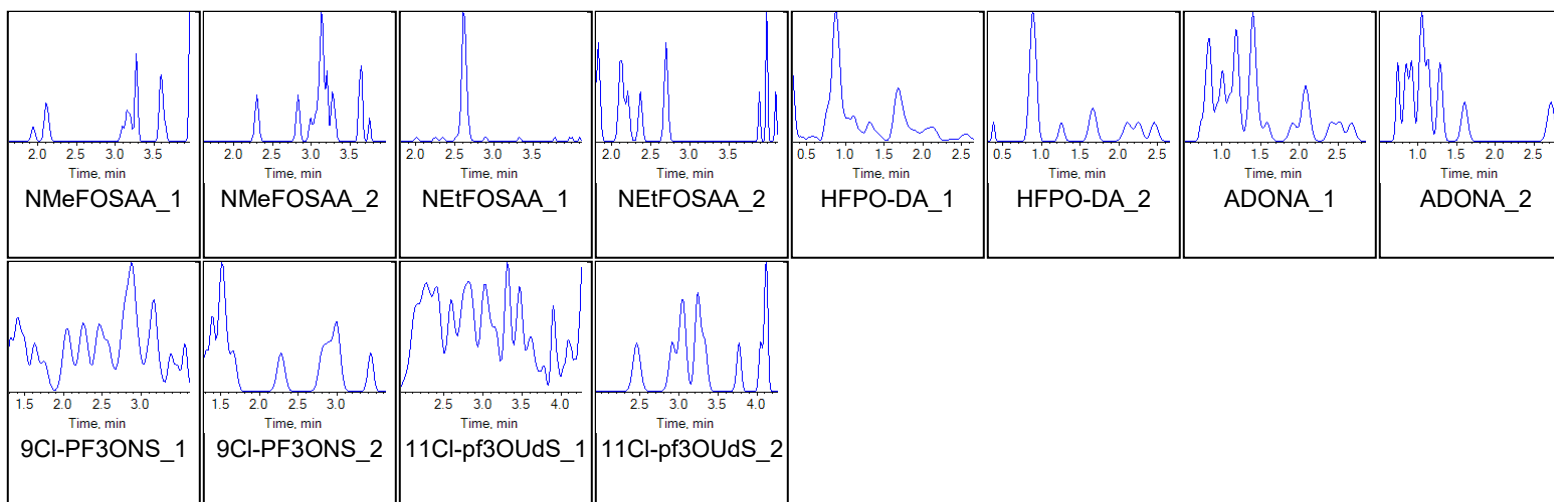
Chromatograms

Target Analytes:

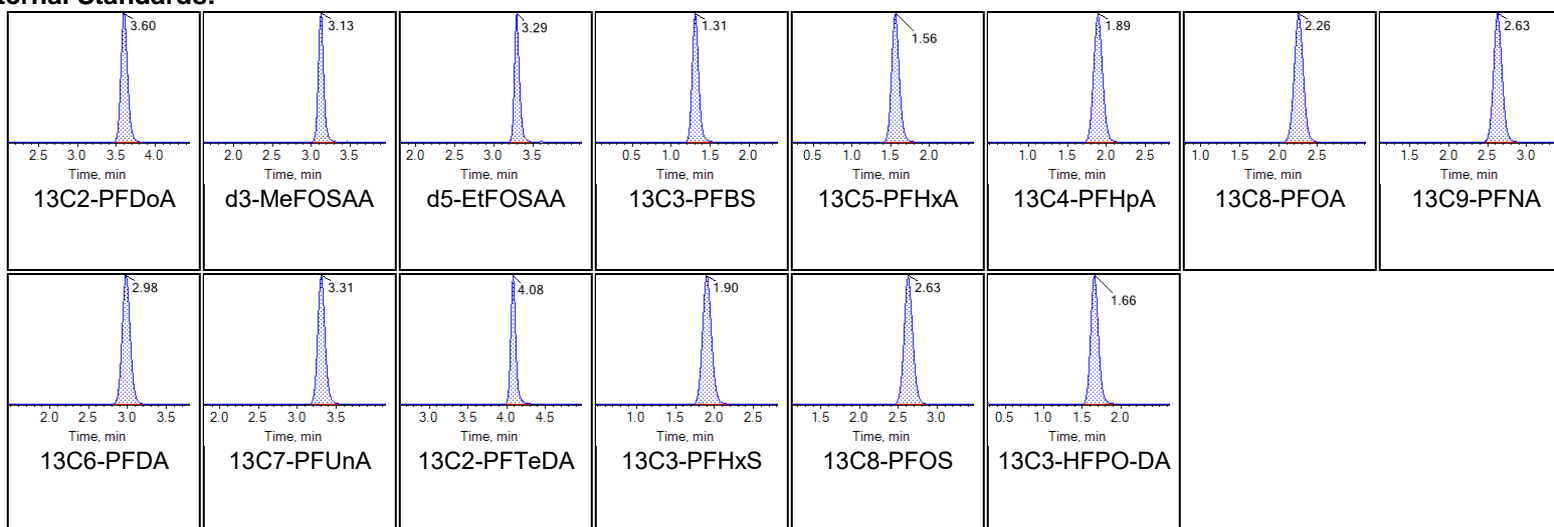




Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Internal Standards:





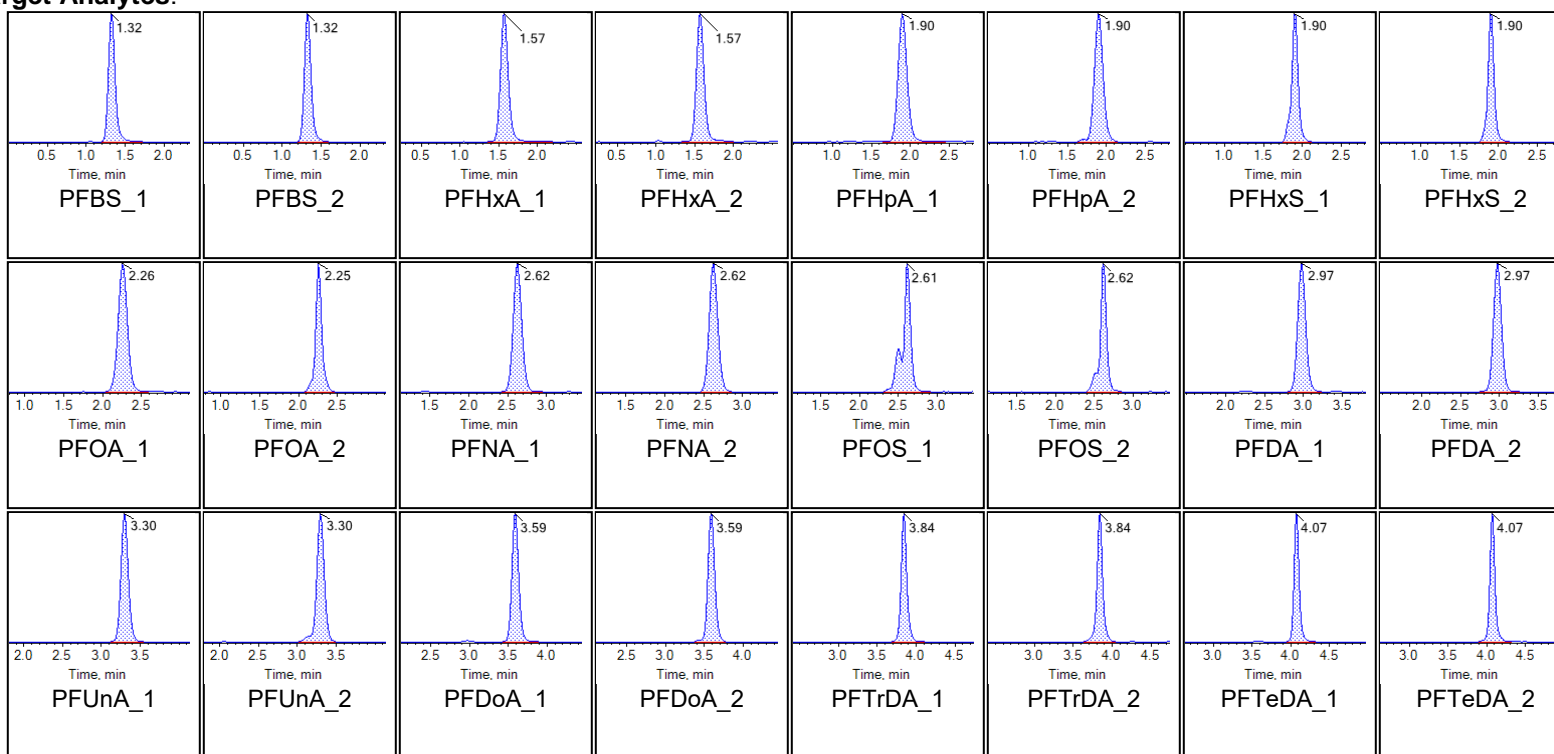
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD76 CCV	Injection Vial	51
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:22:06 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

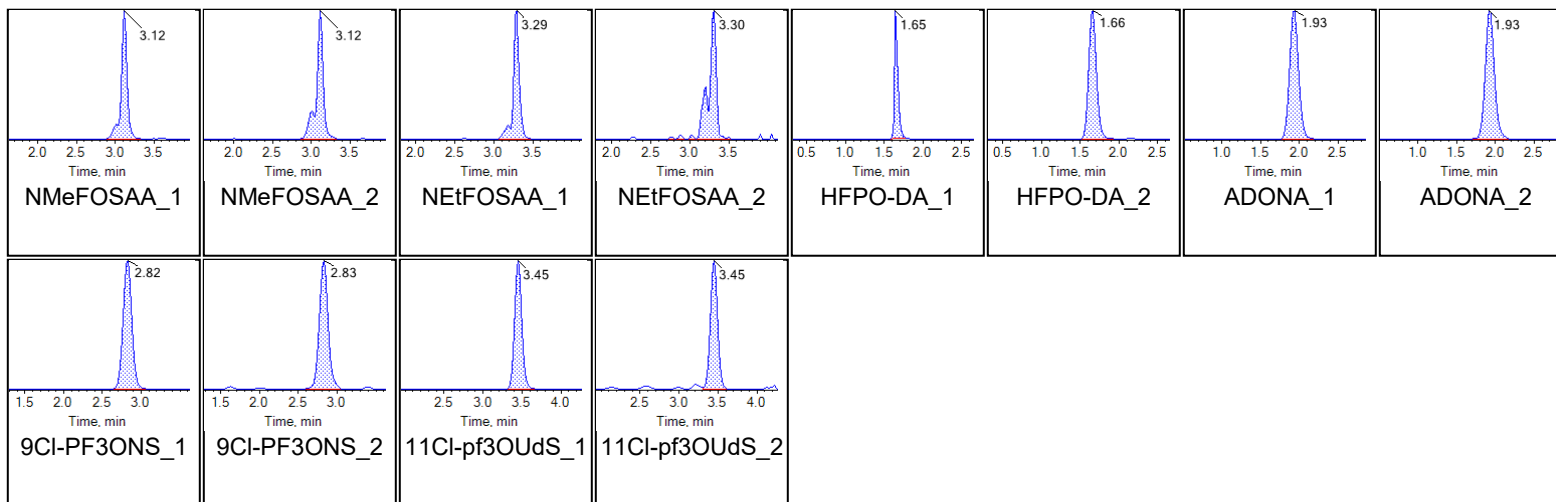
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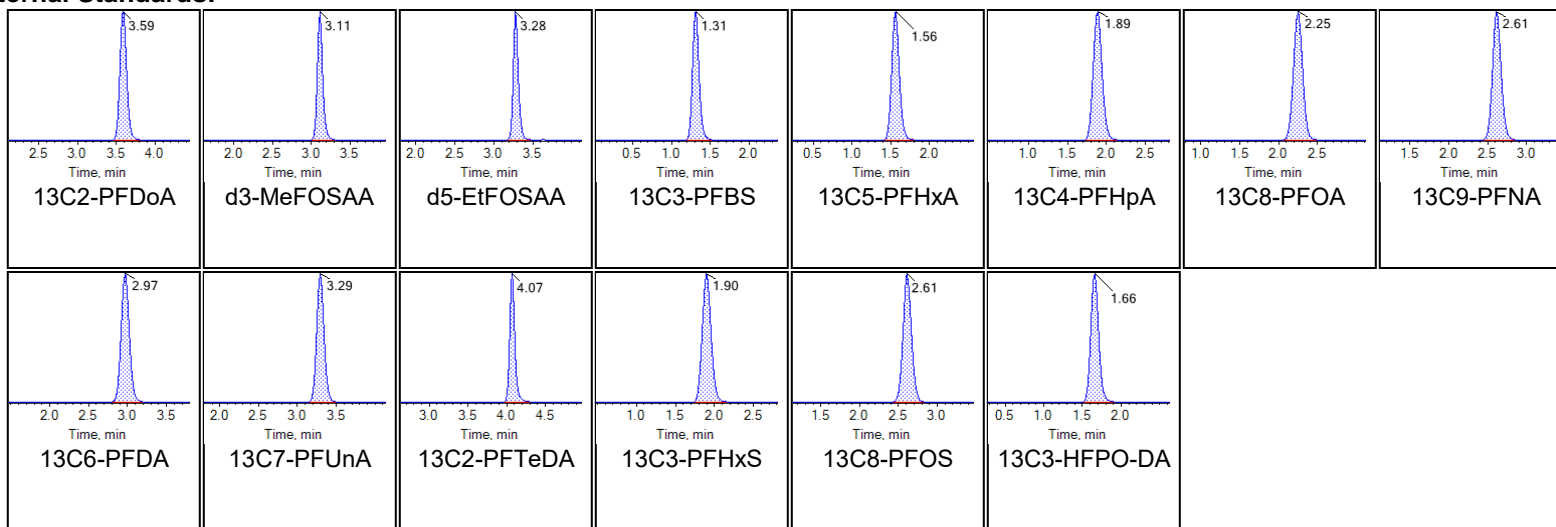


Chromatogram Report

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Internal Standards:





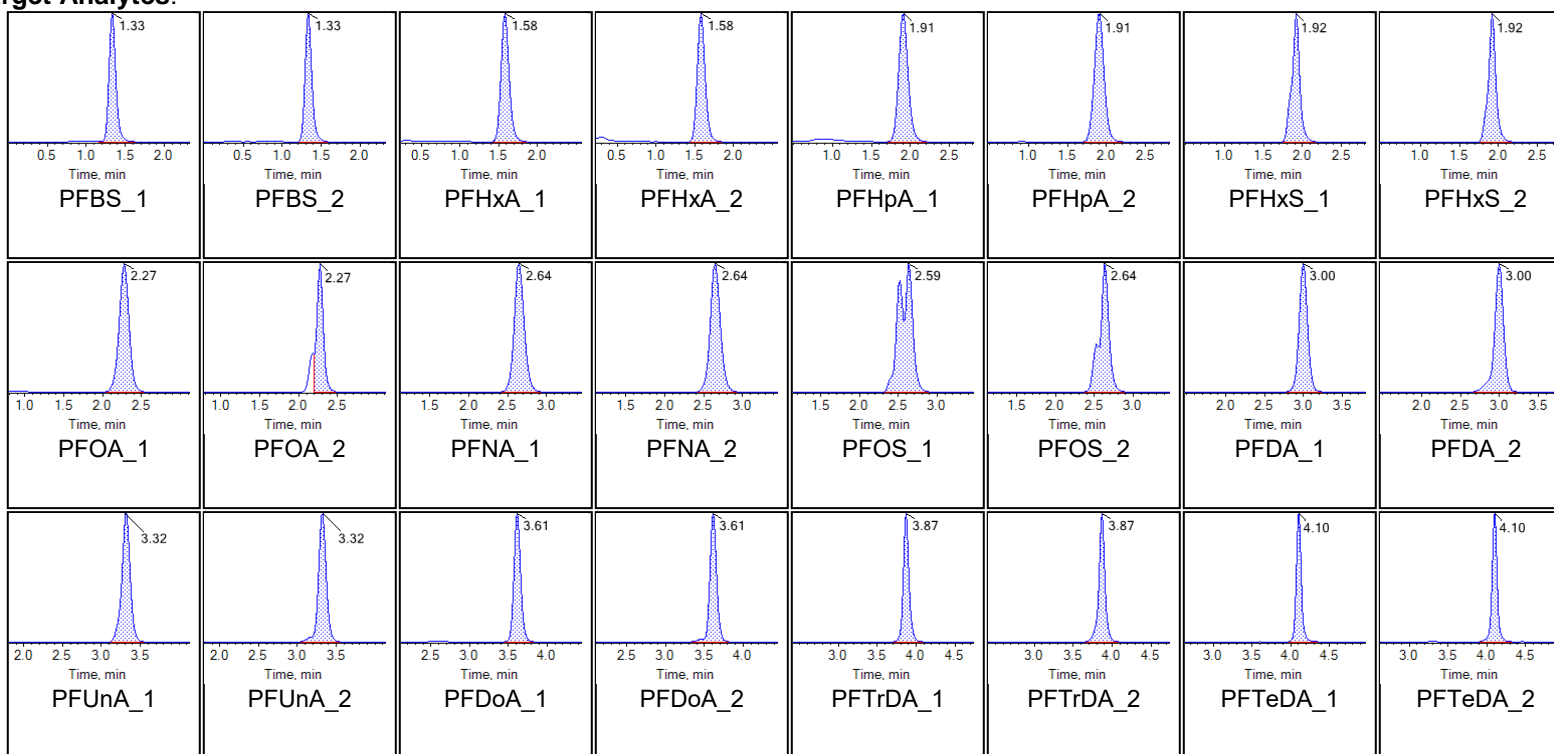
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1666MS-FS(0)	Injection Vial	52
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:32:35 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

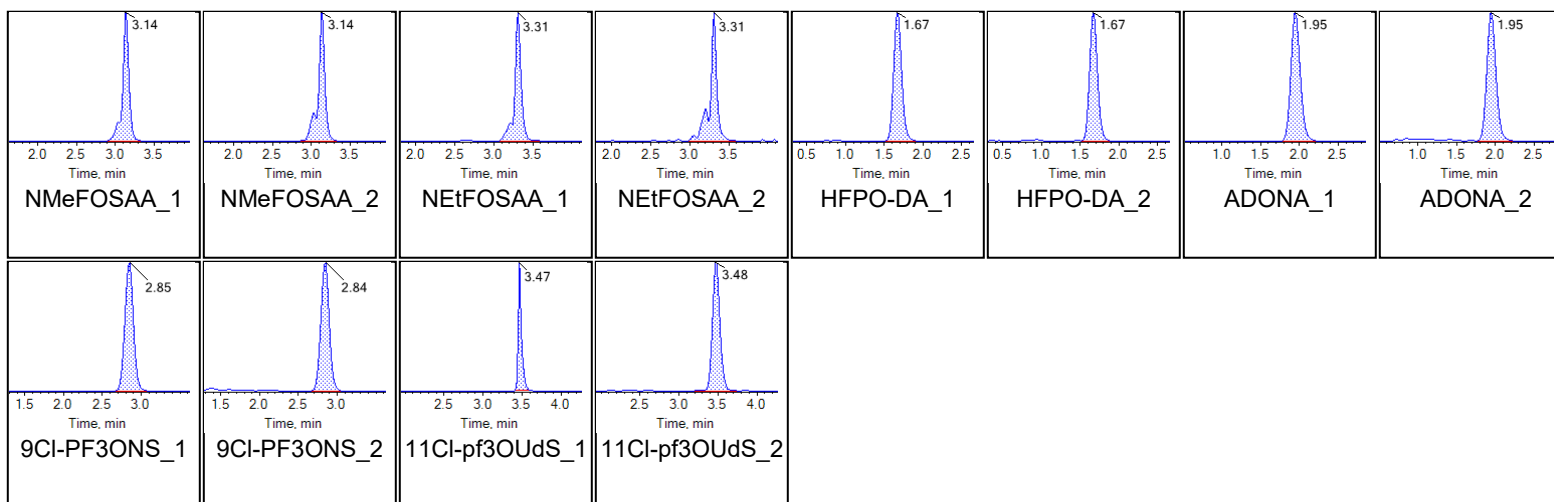
Chromatograms

Target Analytes:

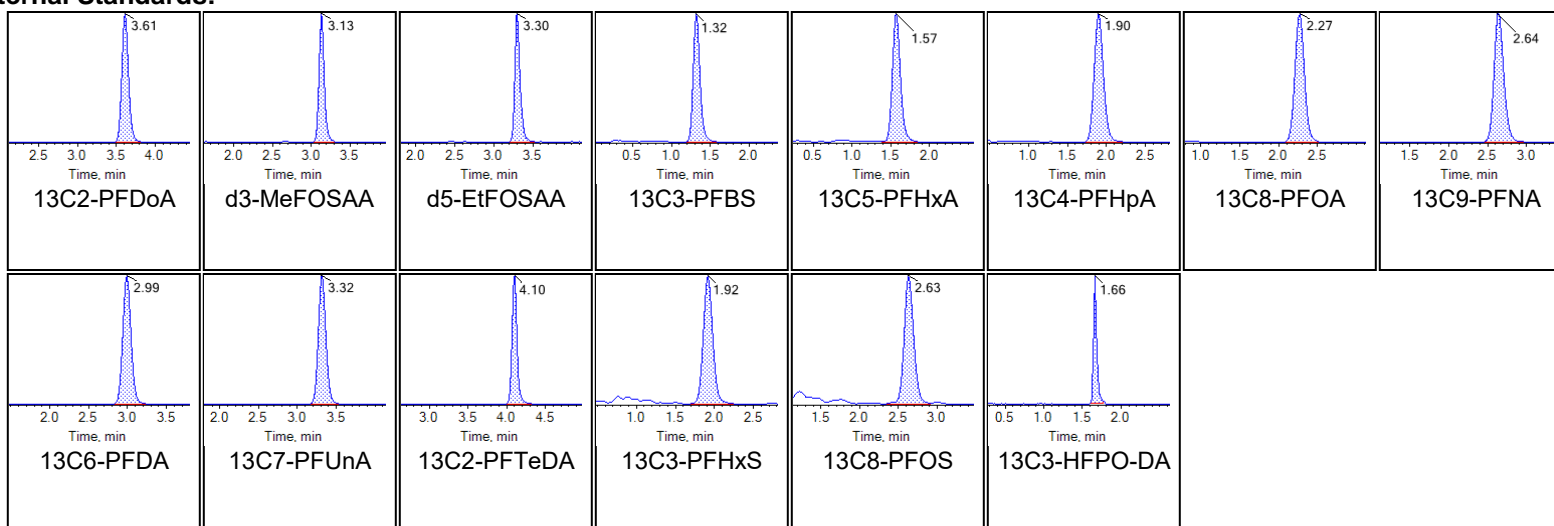




Chromatogram Report

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Internal Standards:





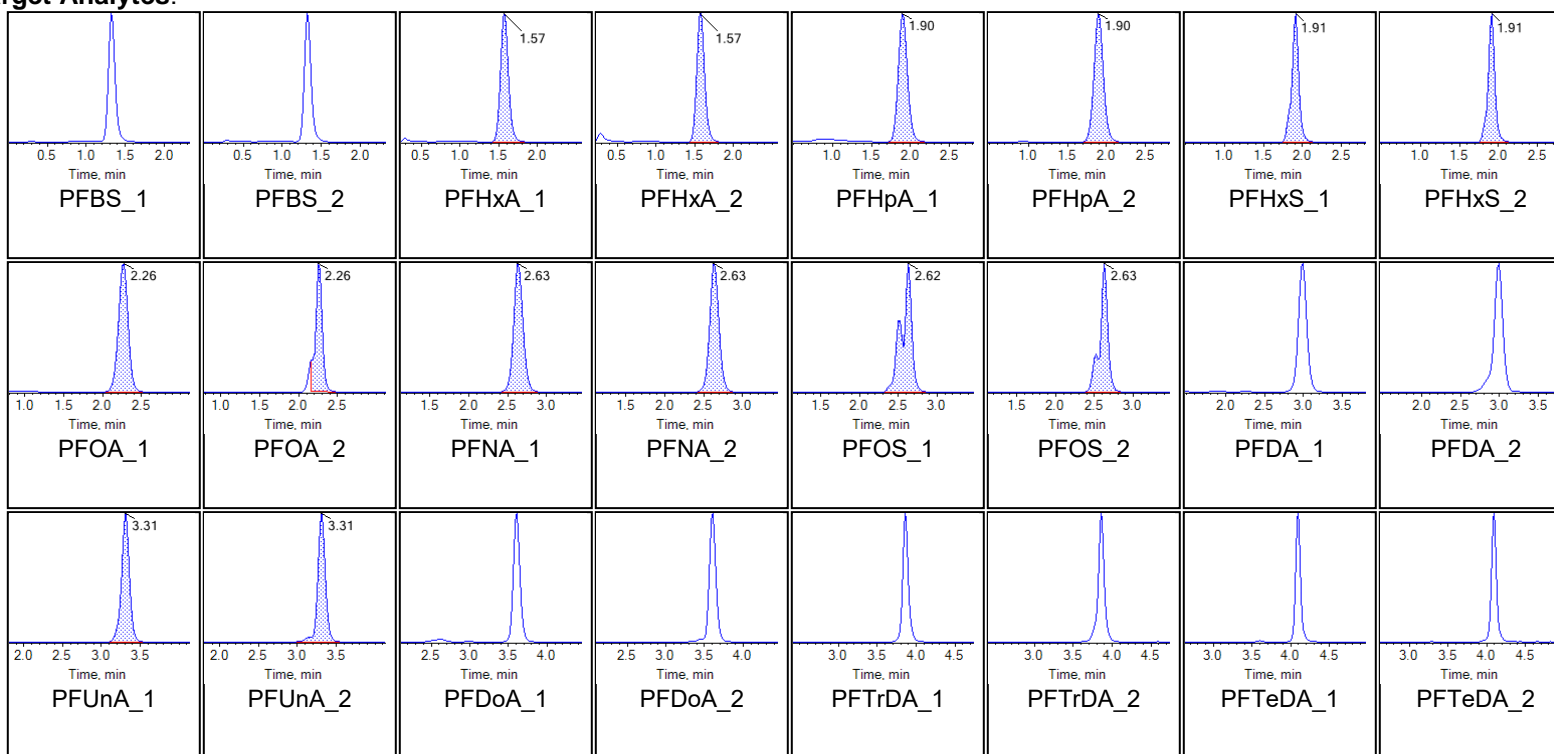
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1666MS-FS-D(3)	Injection Vial	53
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:43:04 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

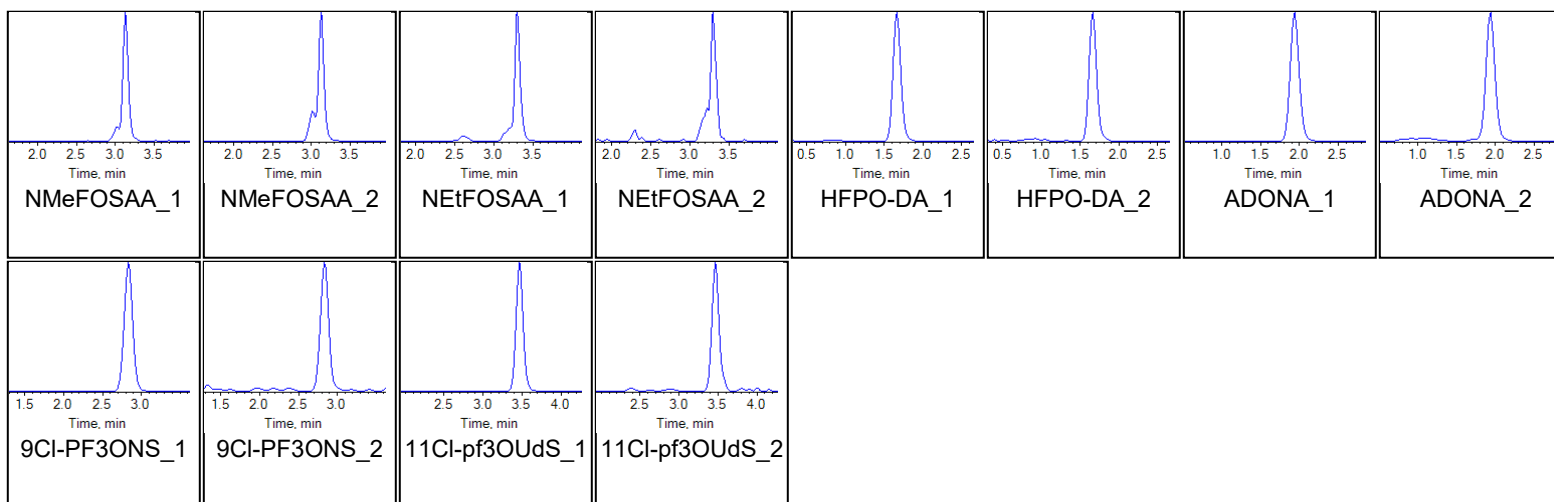
Chromatograms

Target Analytes:

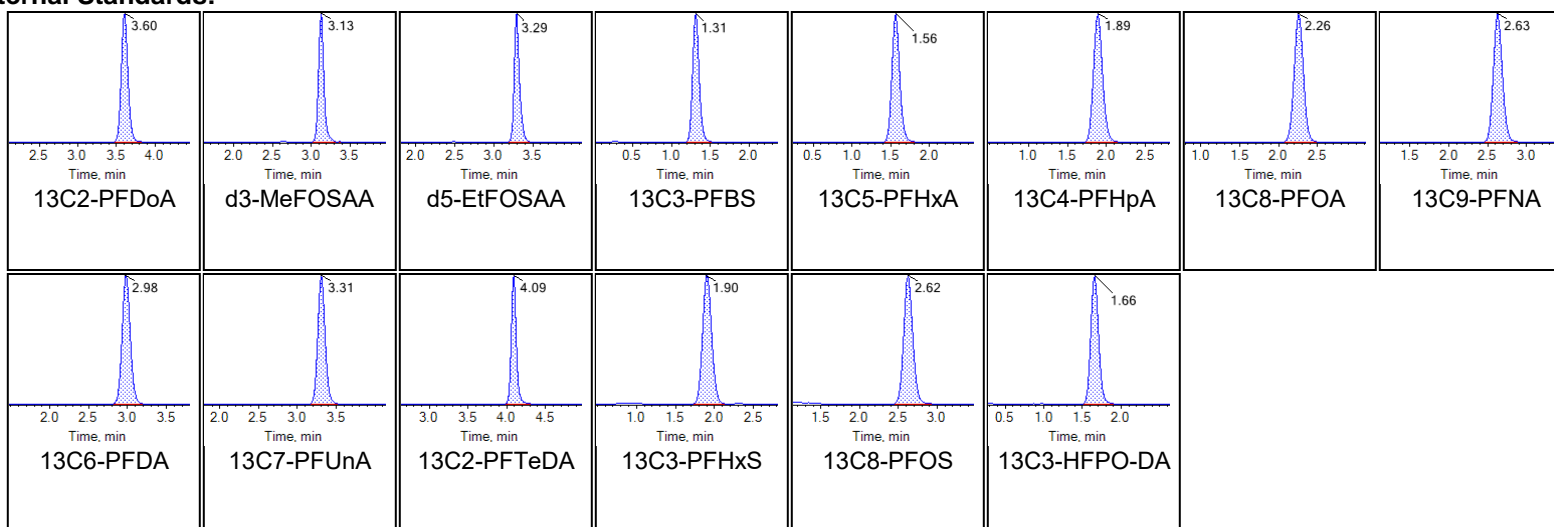




Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Internal Standards:





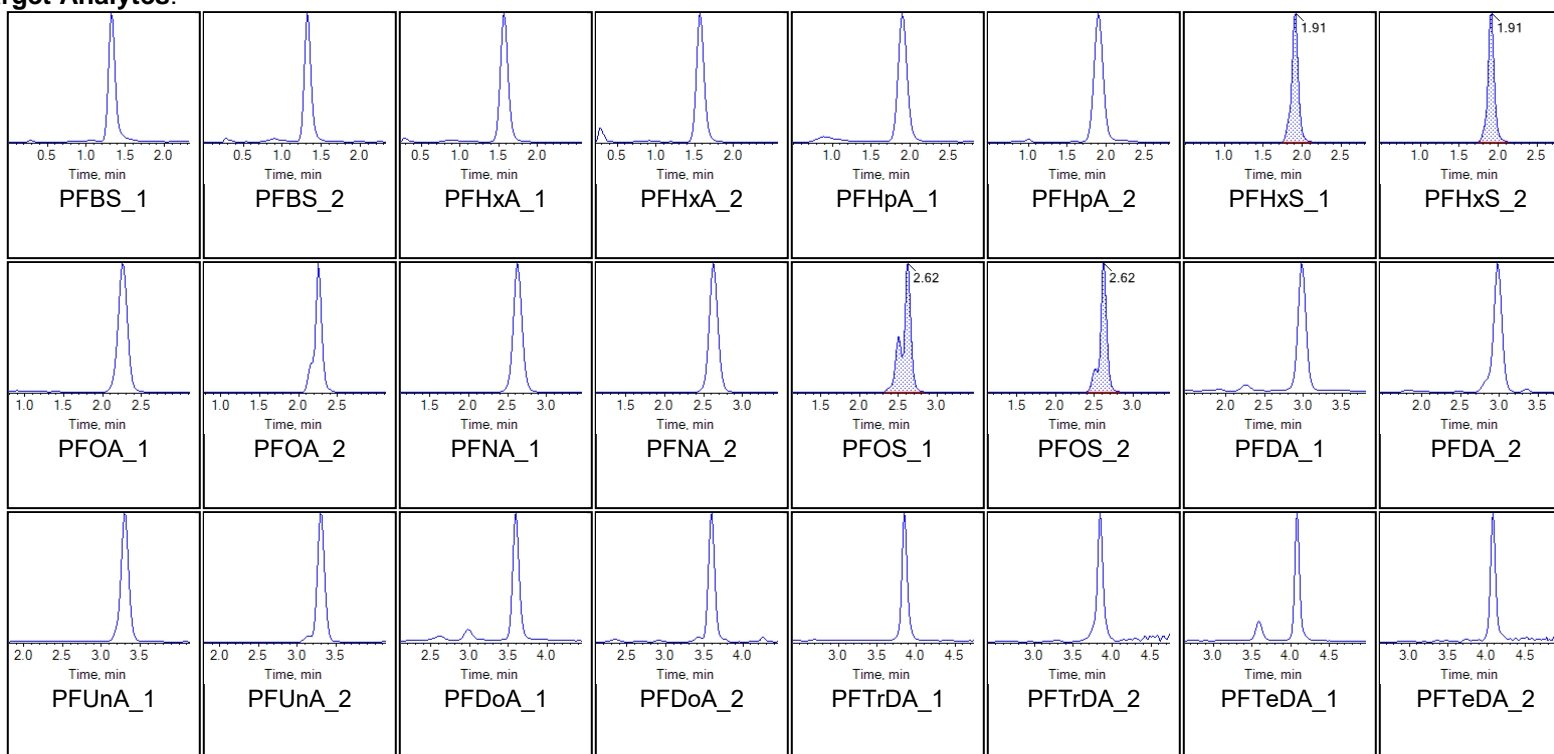
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1666MS-FS-D(7)	Injection Vial	1
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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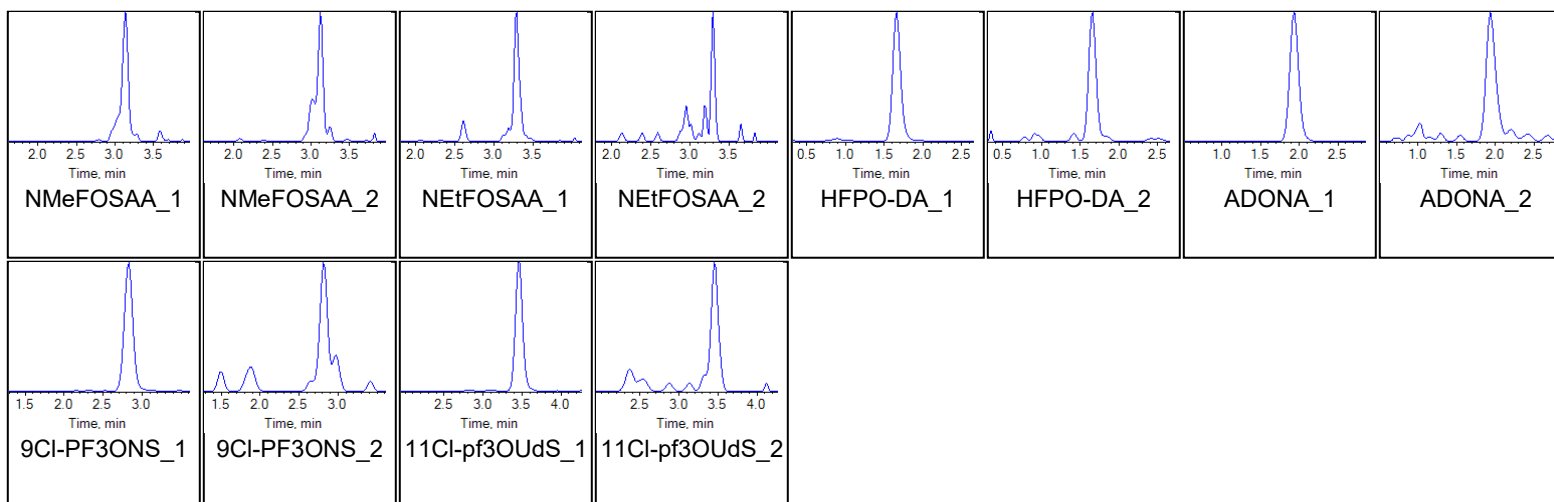
Chromatograms

Target Analytes:

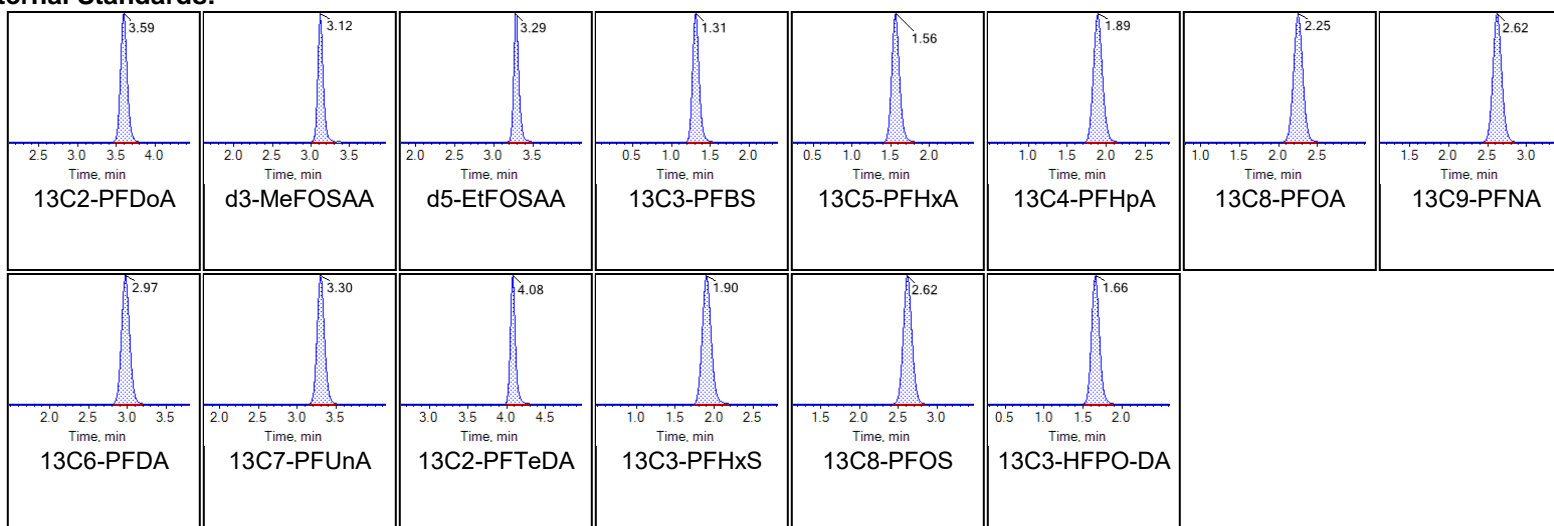




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Internal Standards:





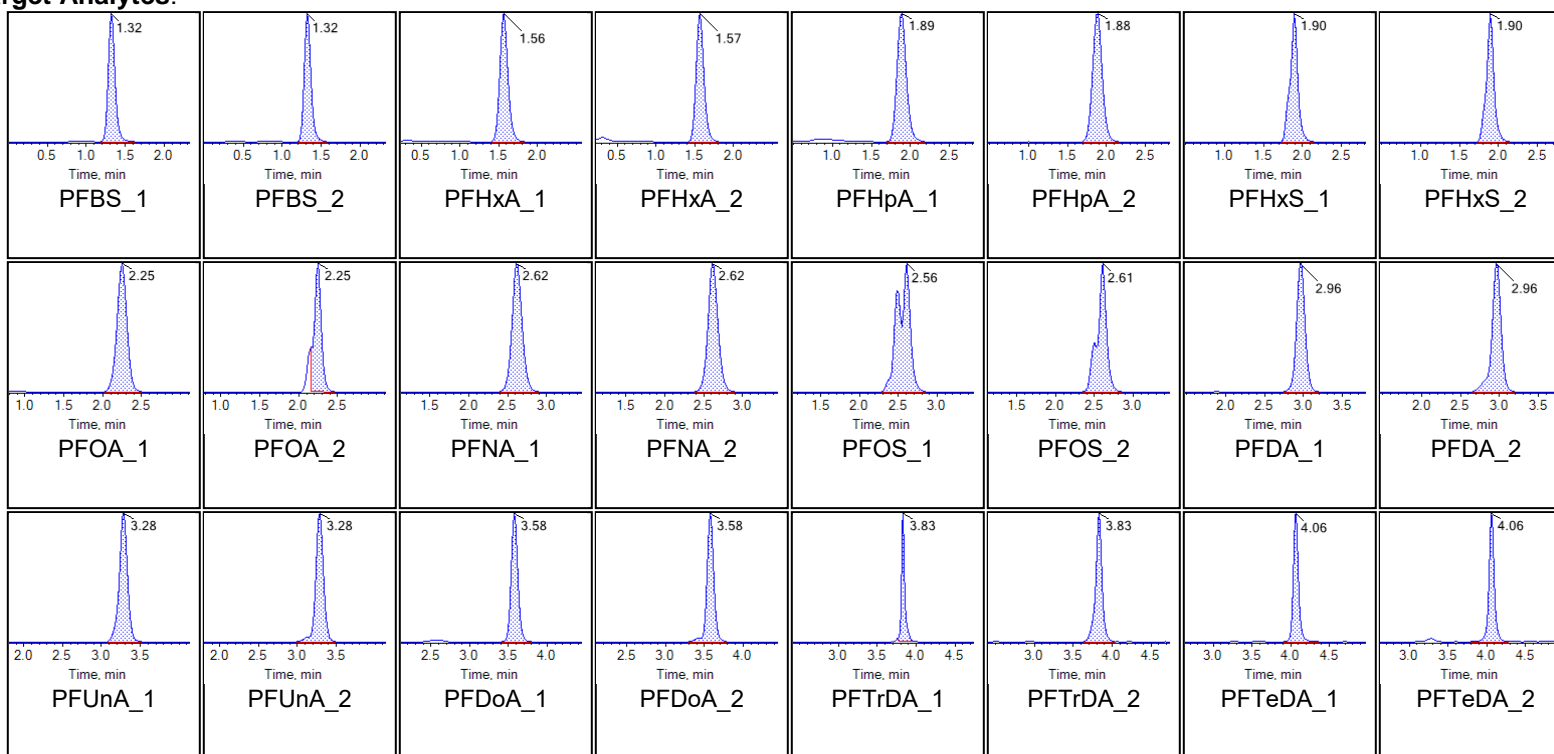
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1667MSD-FS(0)	Injection Vial	2
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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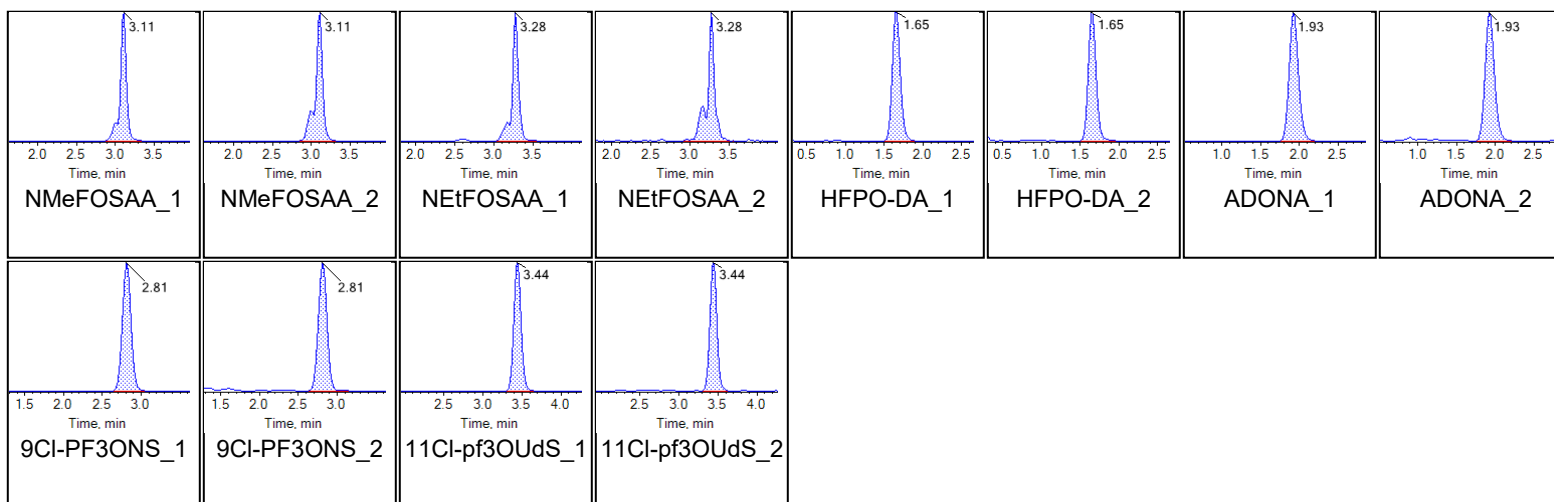
Chromatograms

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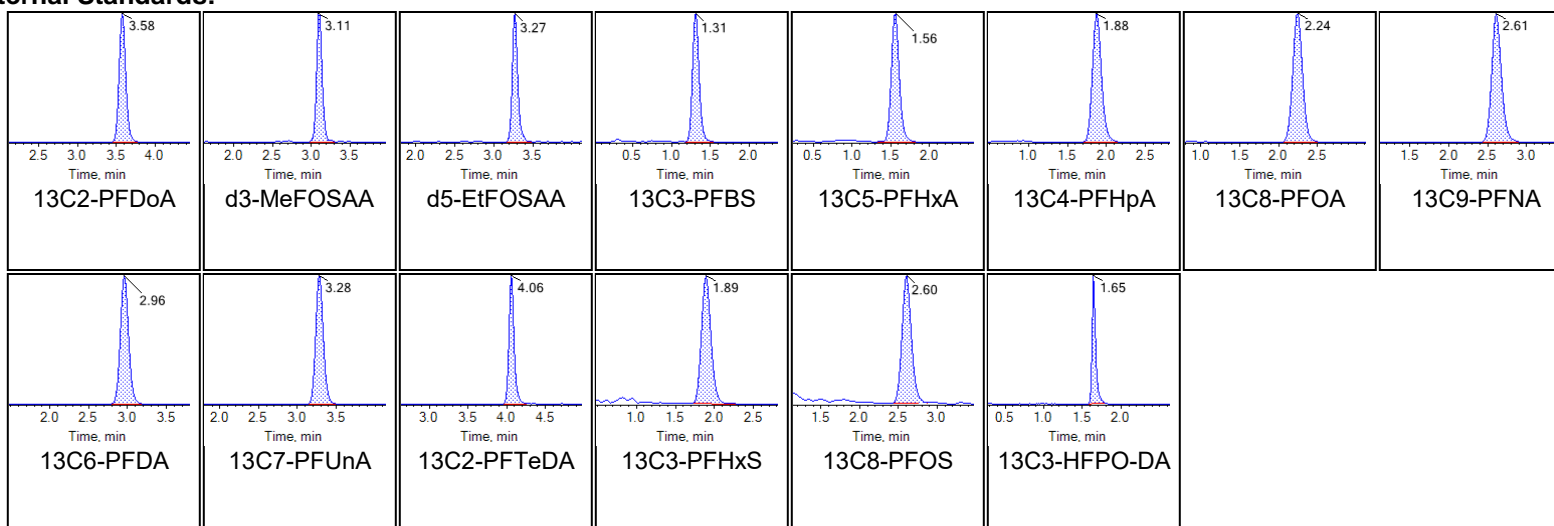




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Internal Standards:





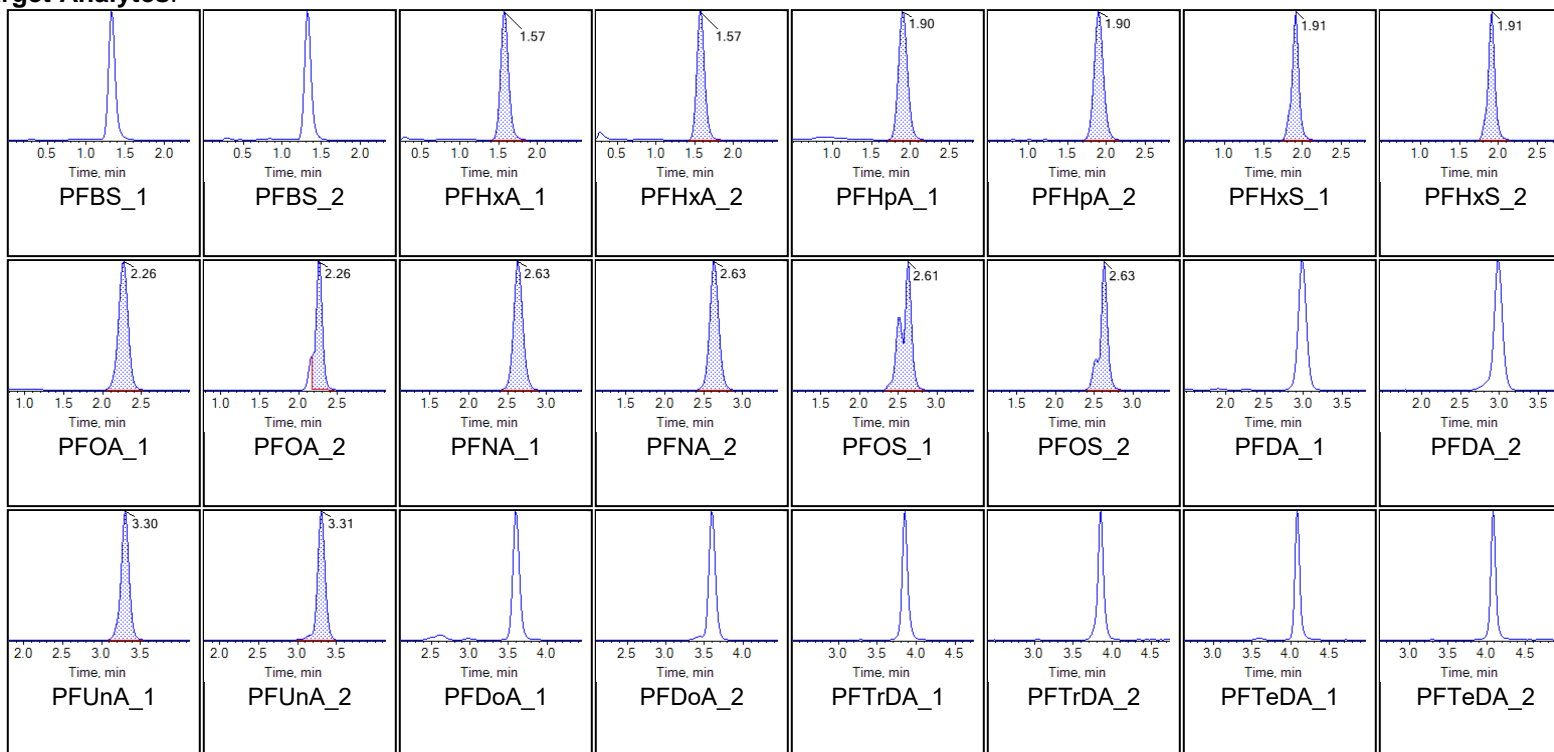
Chromatogram Report

Created with Analyst Reporter
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Sample Name	G1667MSD-FS-D(3)	Injection Vial	3
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:24:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

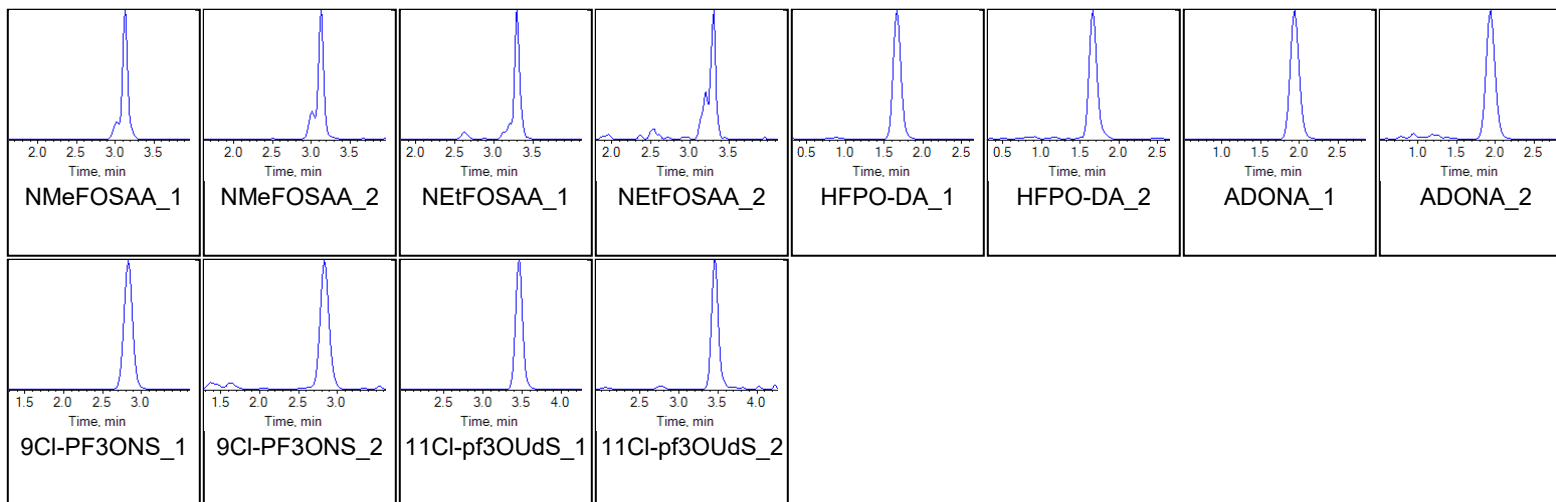
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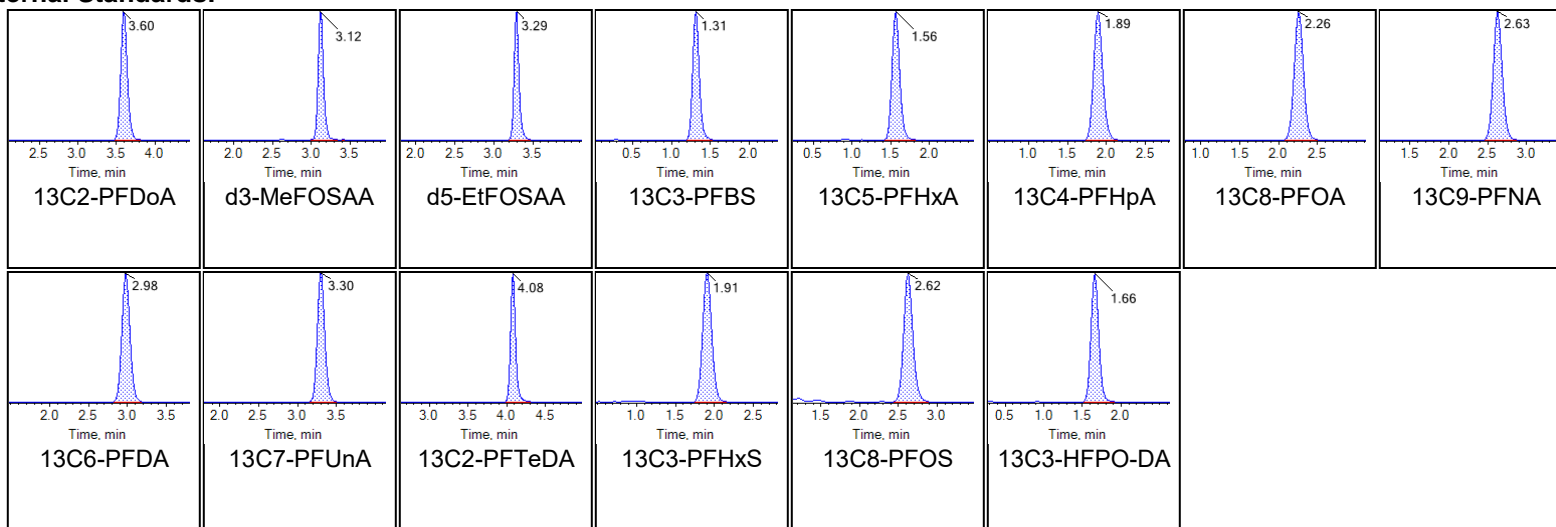


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Internal Standards:





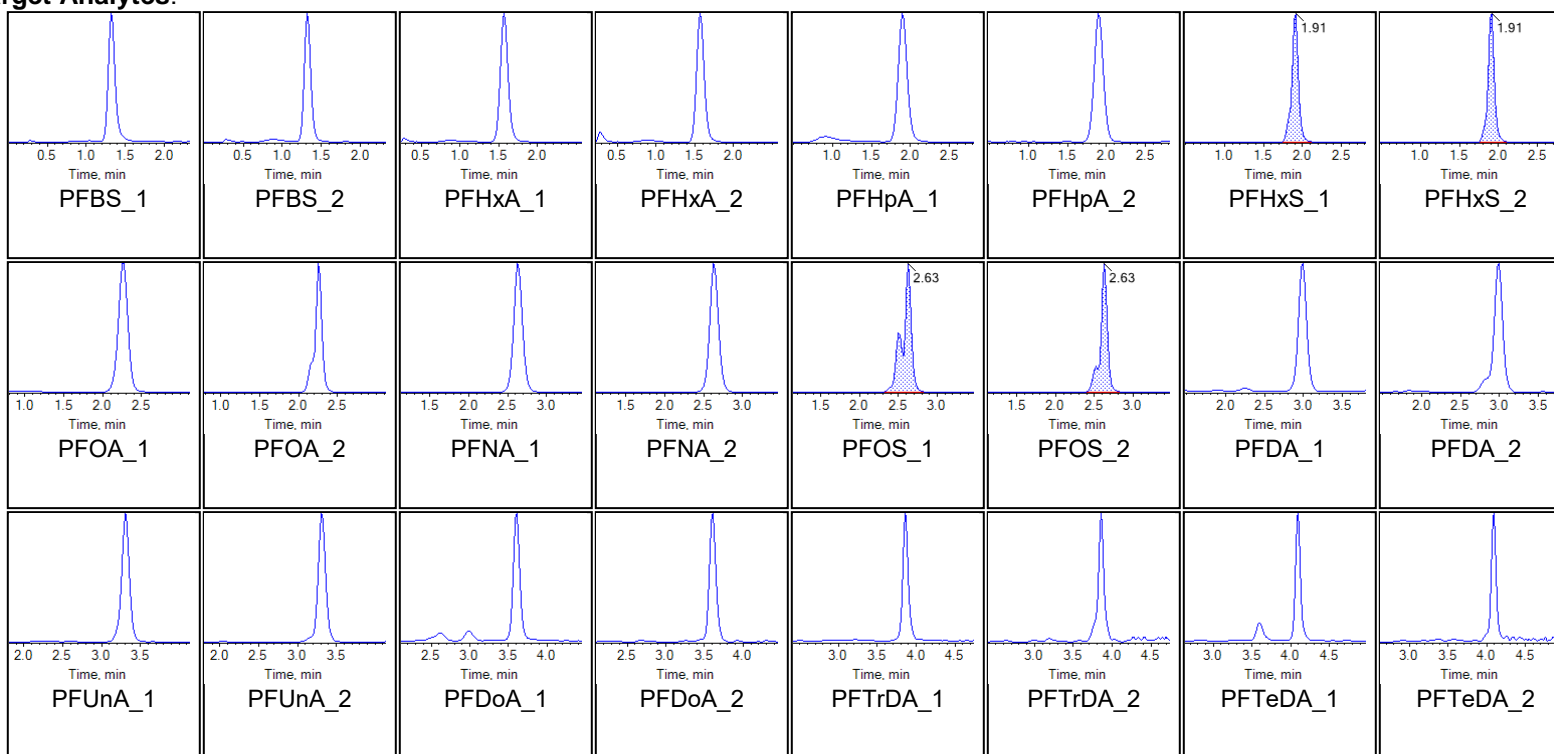
Chromatogram Report

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Sample Name	G1667MSD-FS-D(7)	Injection Vial	5
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:45:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

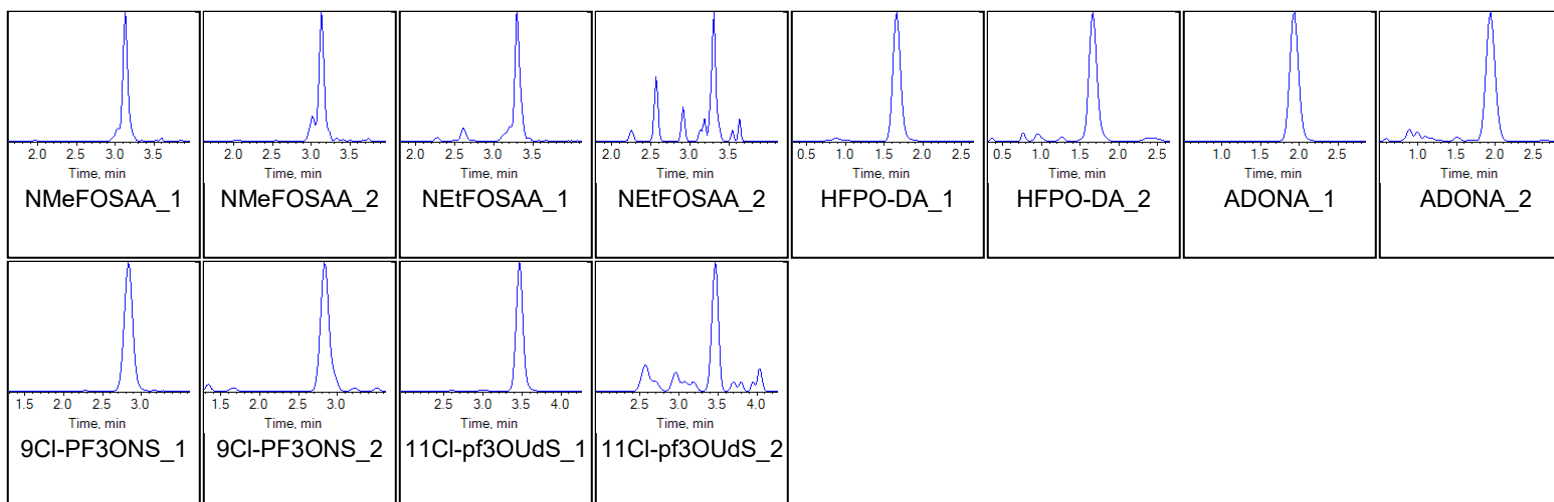
Chromatograms

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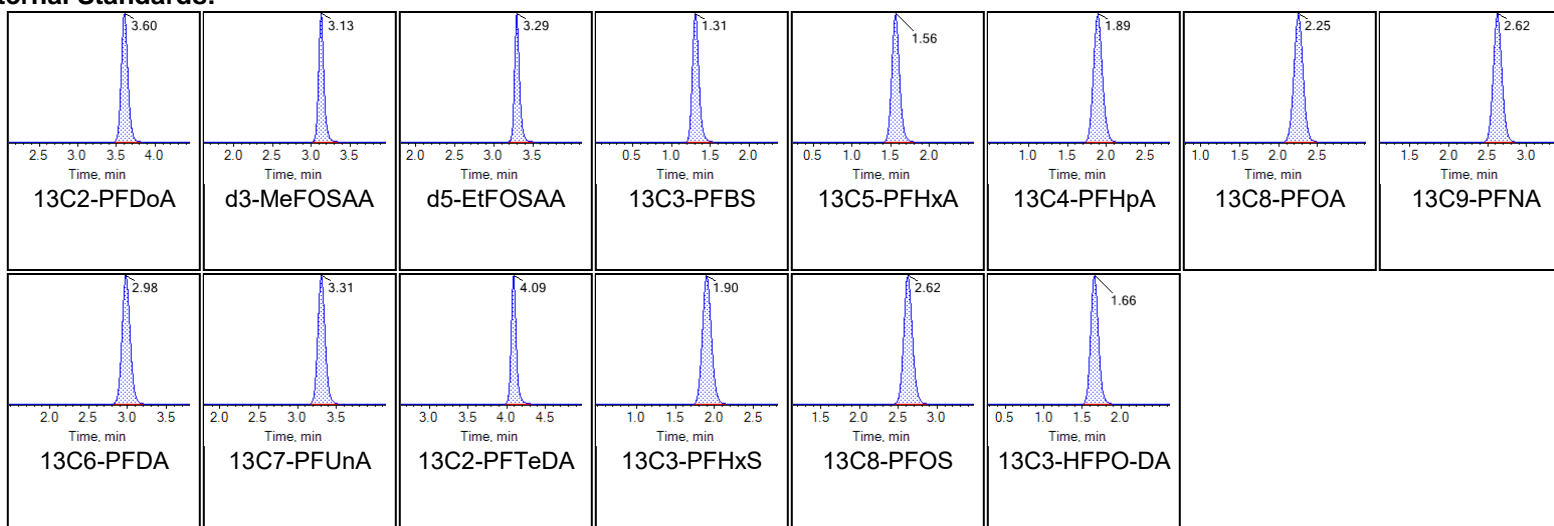




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Internal Standards:





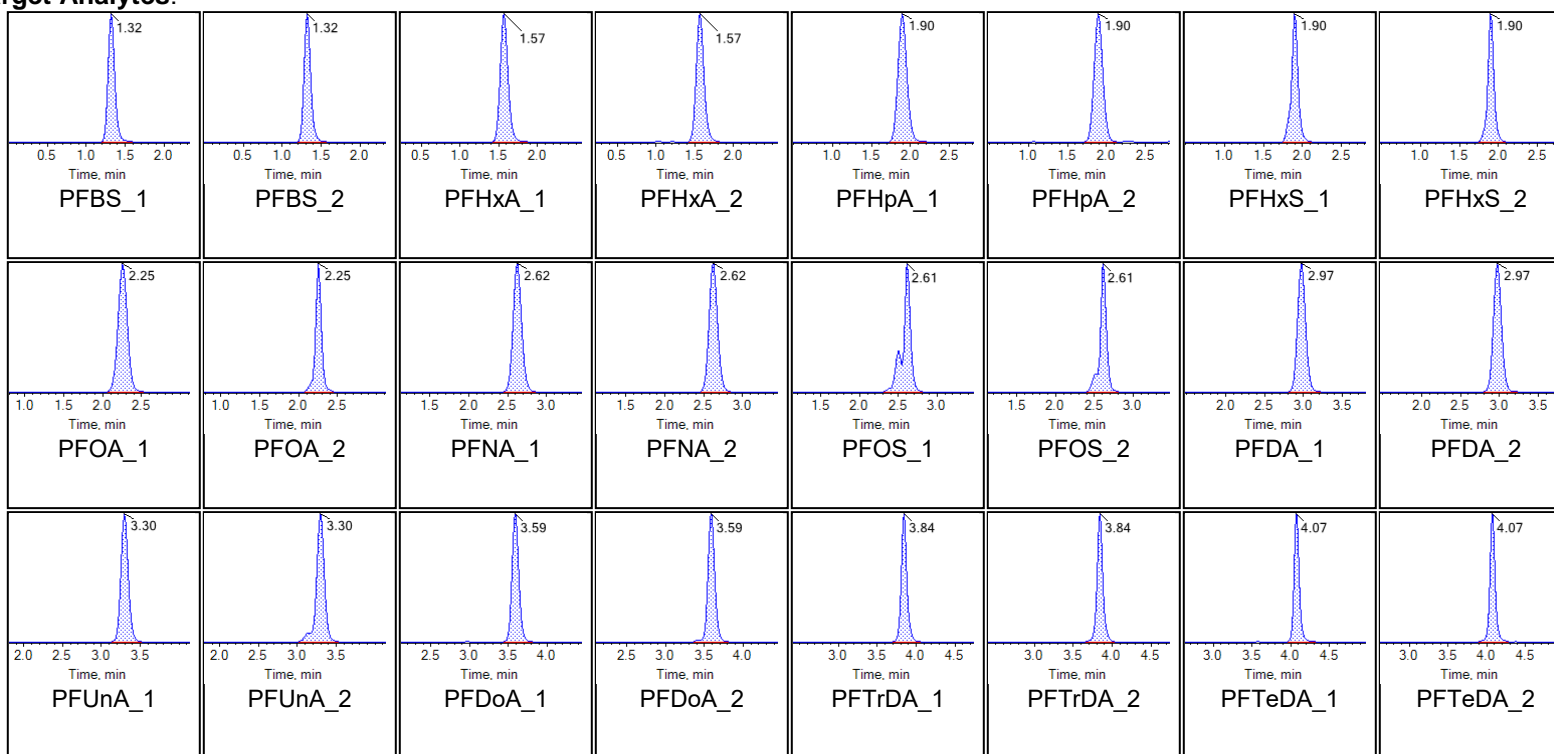
Chromatogram Report

Created with Analyst Reporter
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Sample Name	LD77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:06:53 AM	Data File	AE_11022020_5-369.wiff
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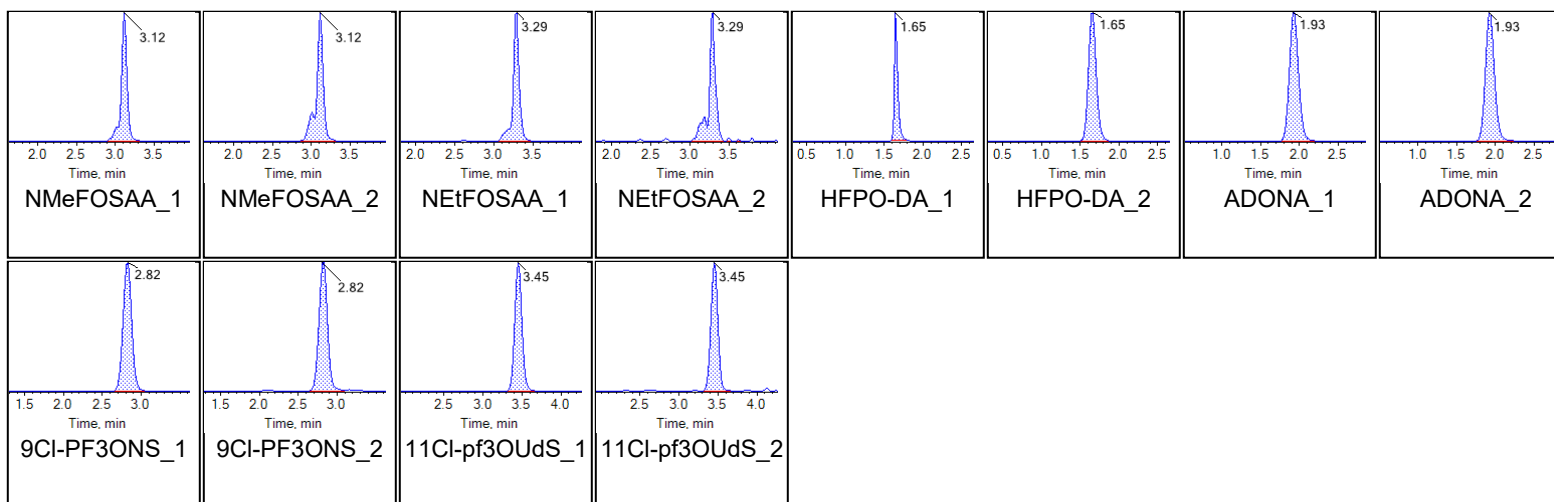
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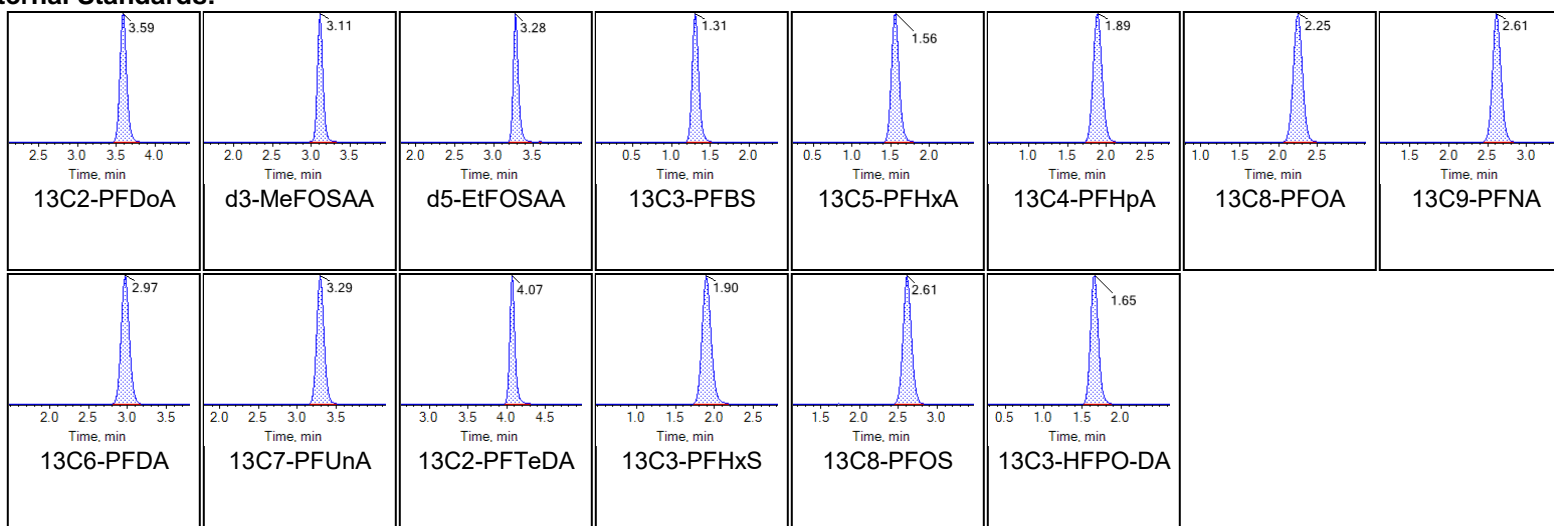




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Internal Standards:





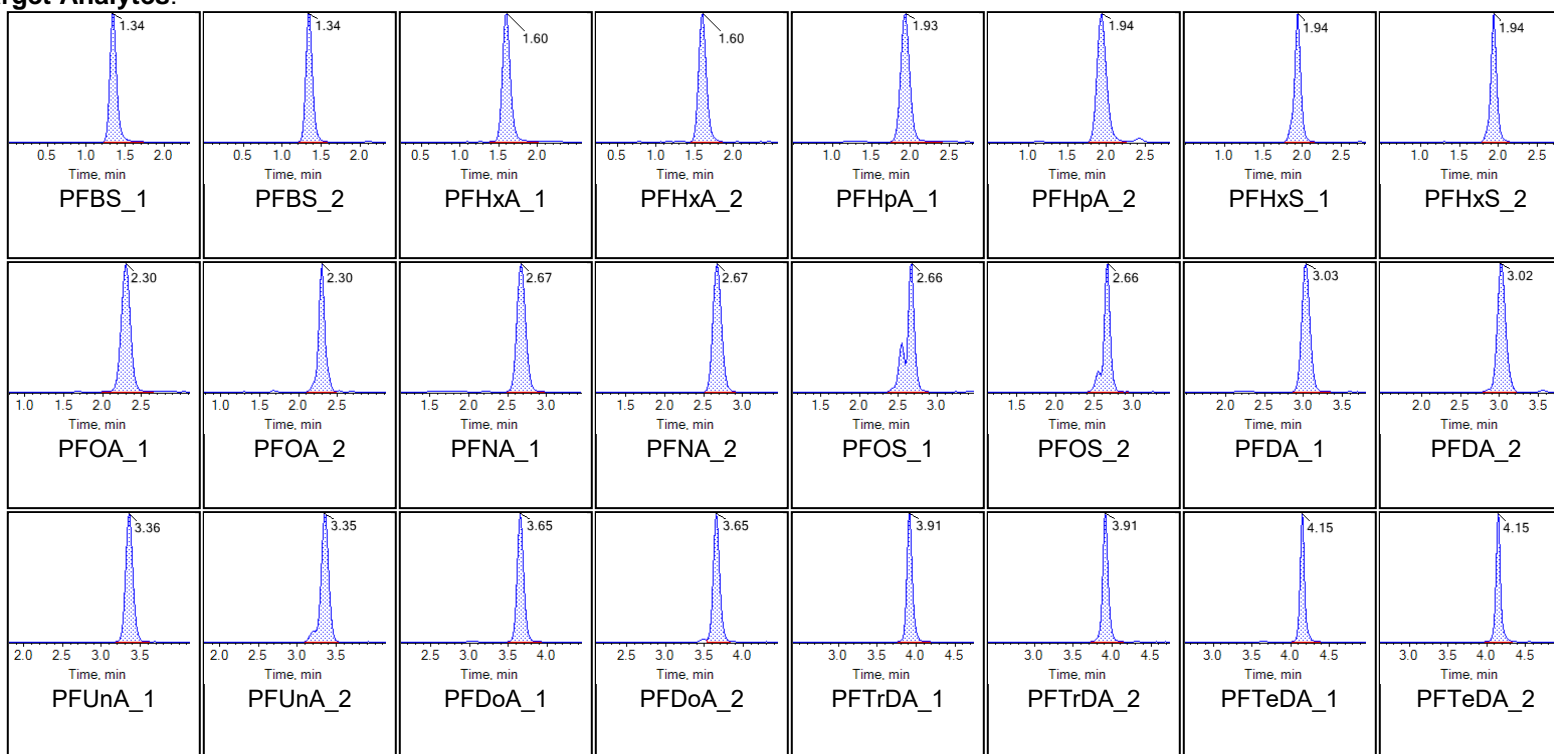
Chromatogram Report

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Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:17:43 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

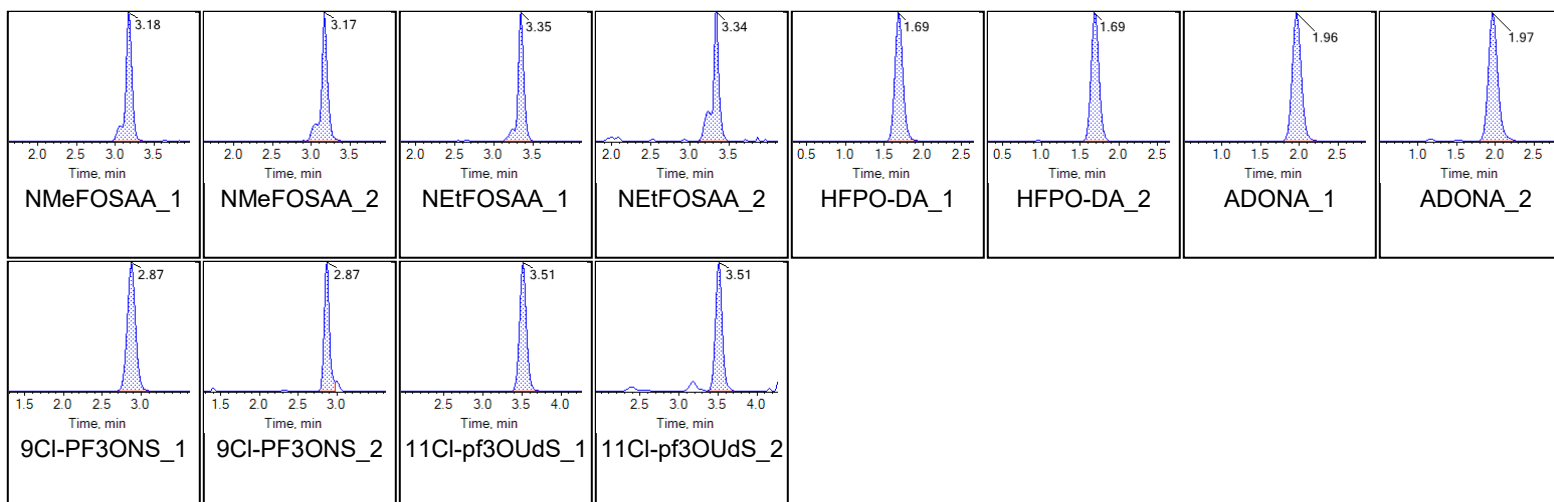
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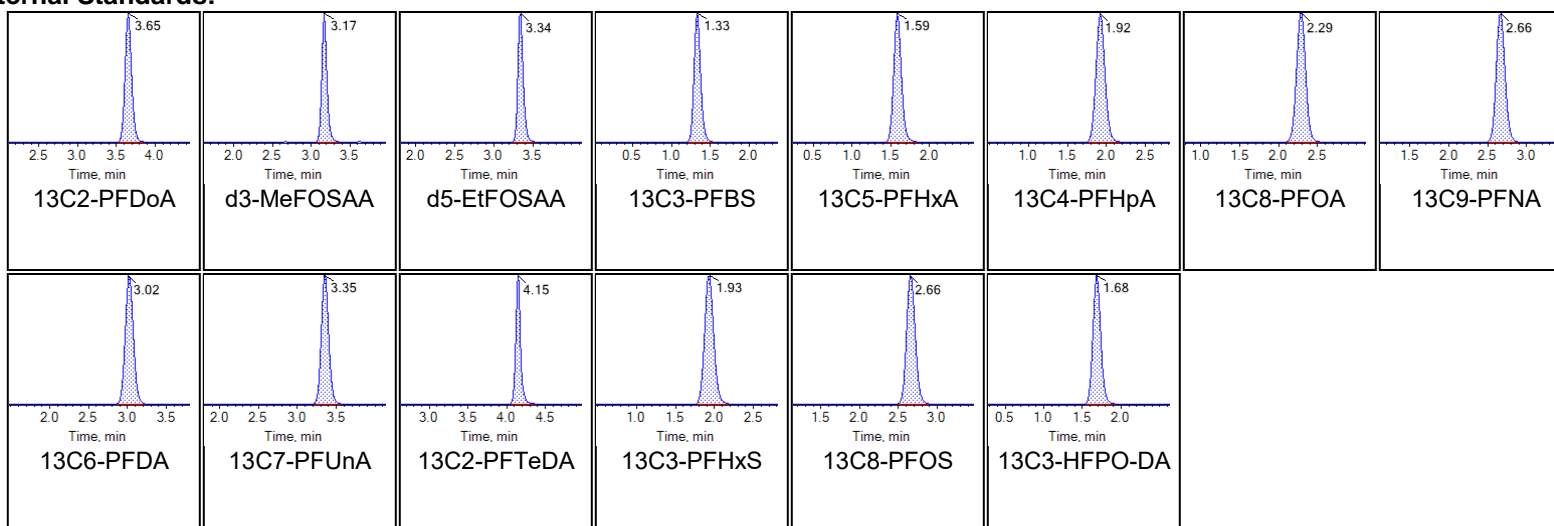




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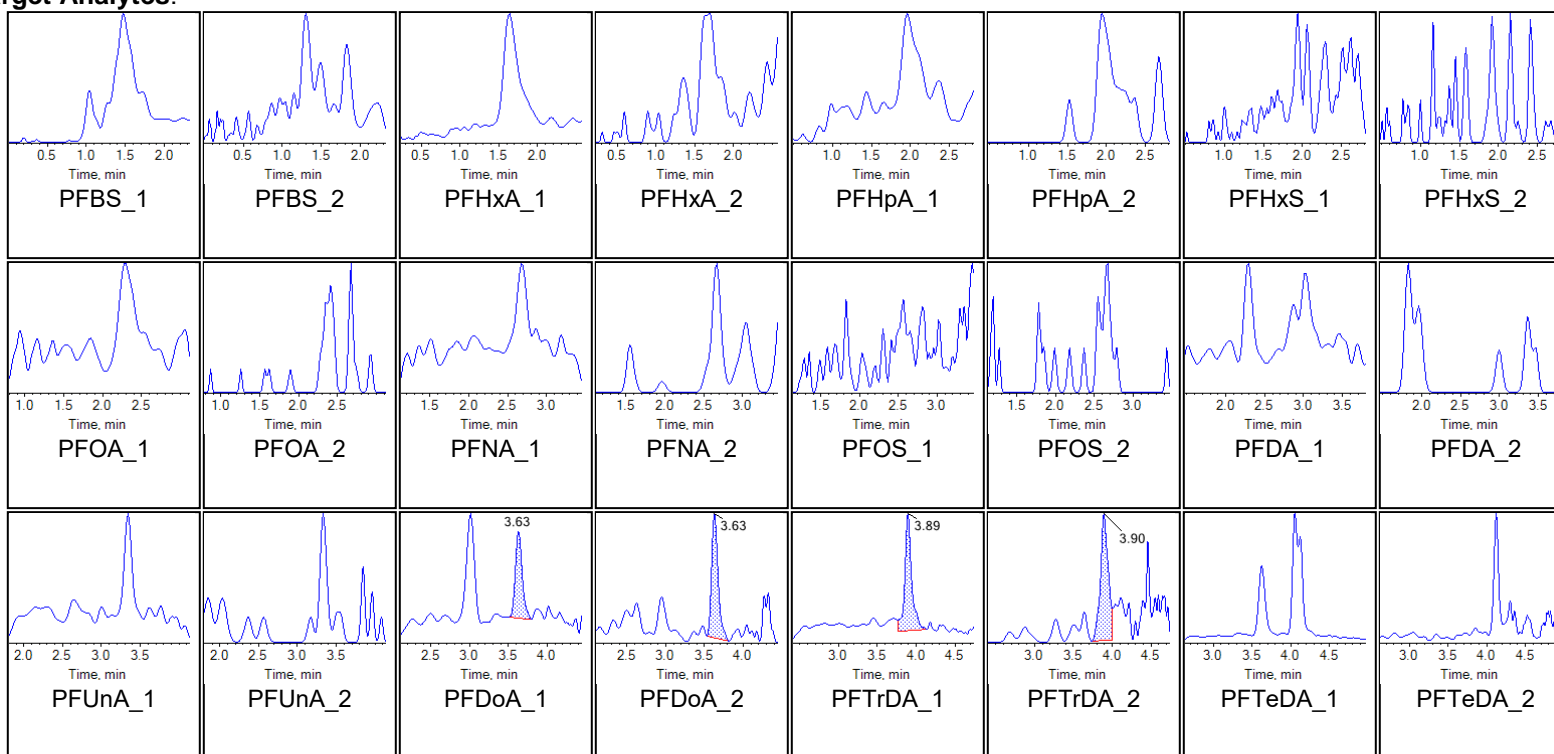
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Sample Name	LD80 IB	Injection Vial	4
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:38:38 PM	Data File	AE_11032020_5-369.wiff
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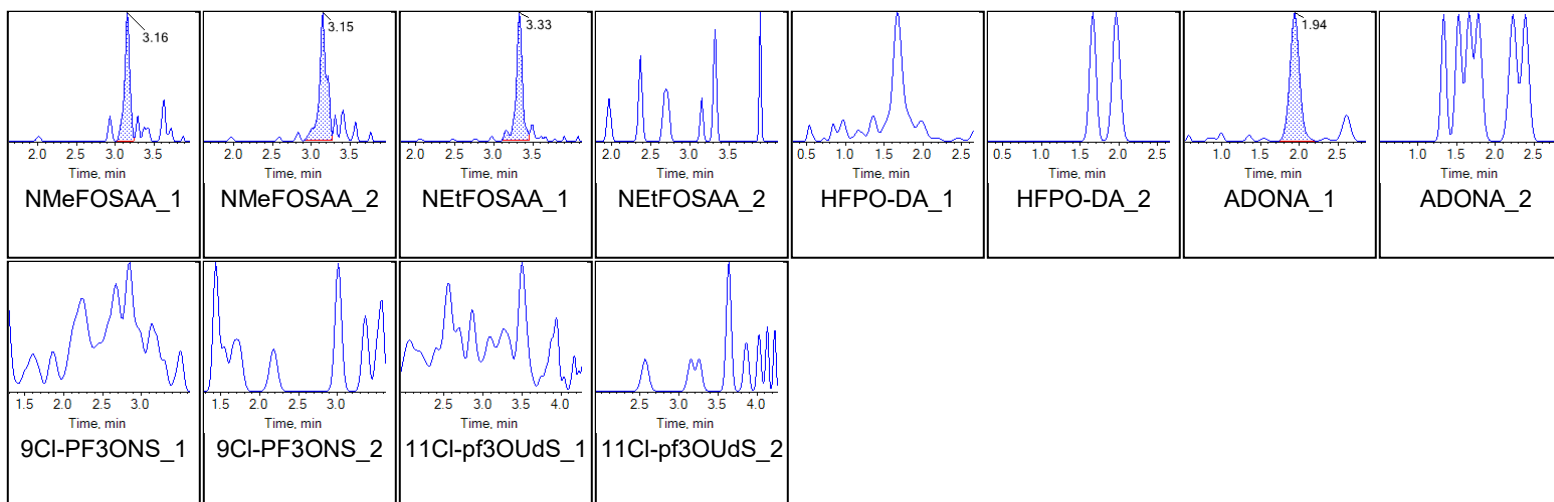
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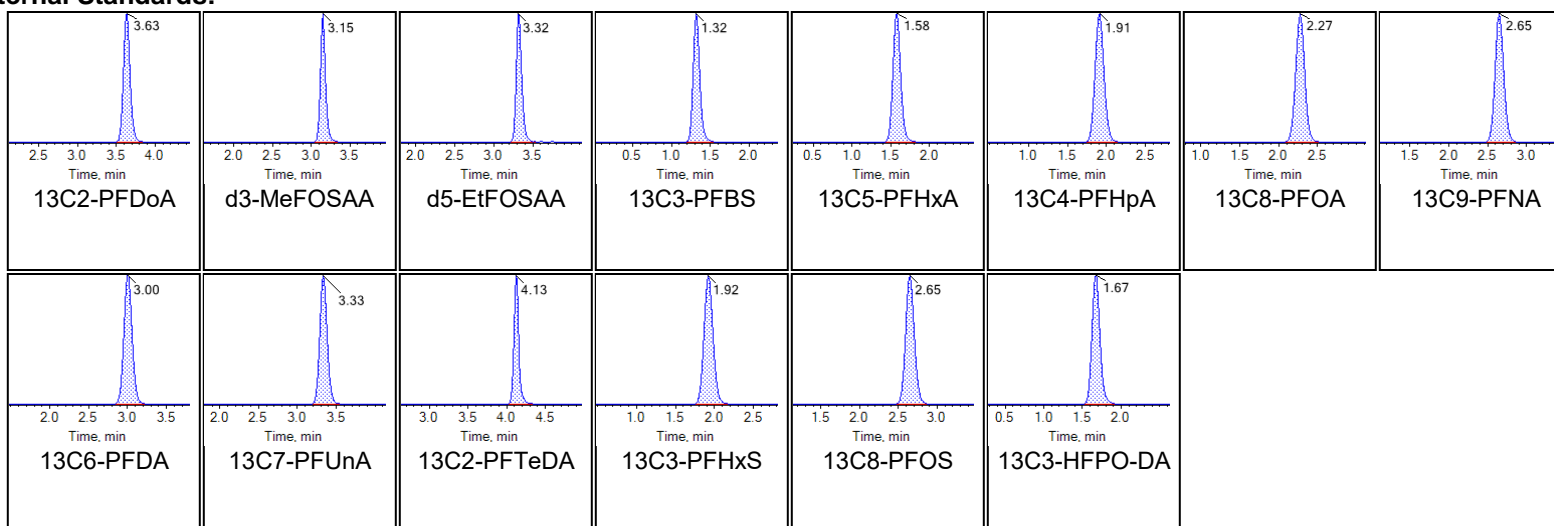




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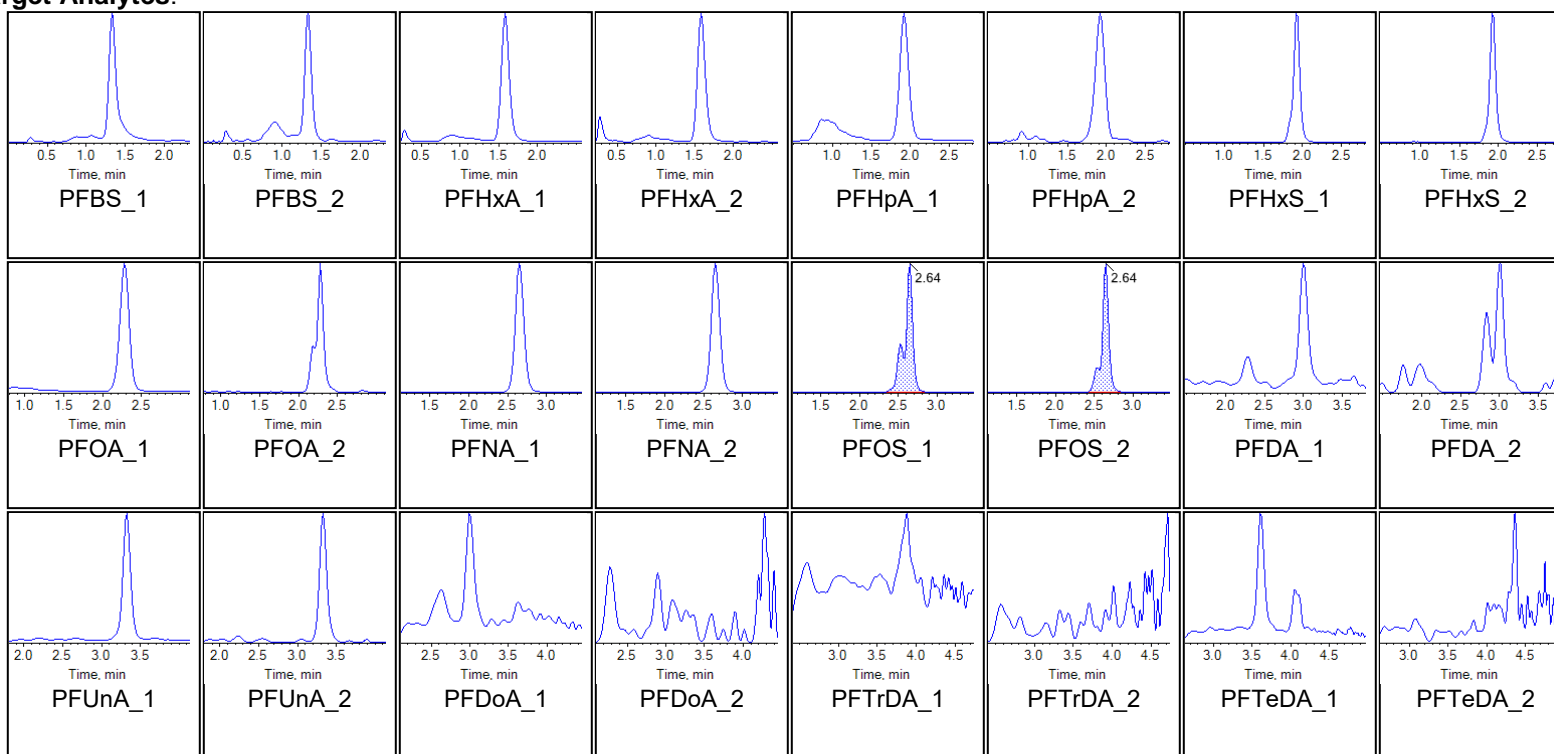
Chromatogram Report

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Sample Name	G1645-FS-D(7)	Injection Vial	8
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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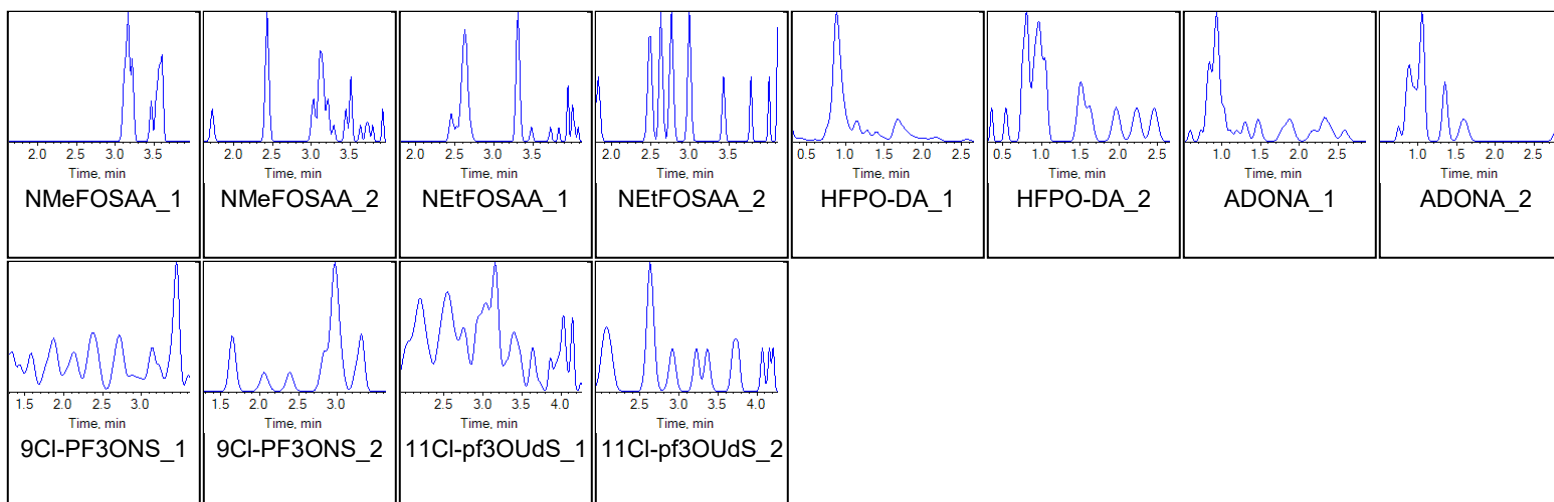
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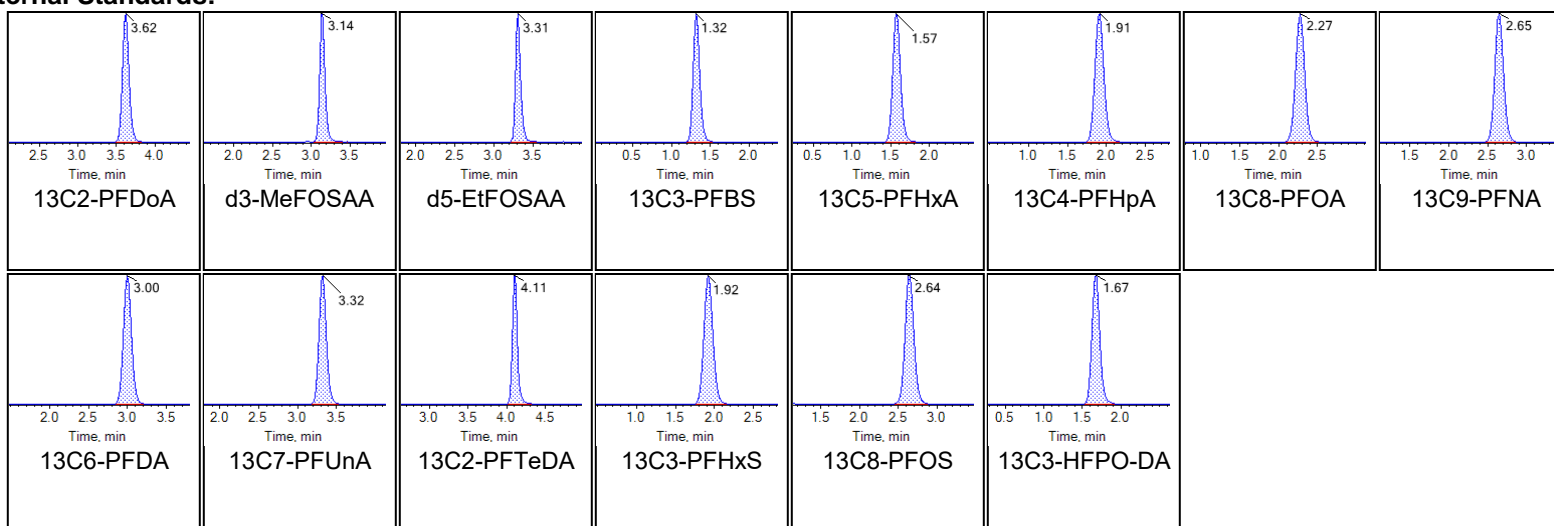




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Internal Standards:





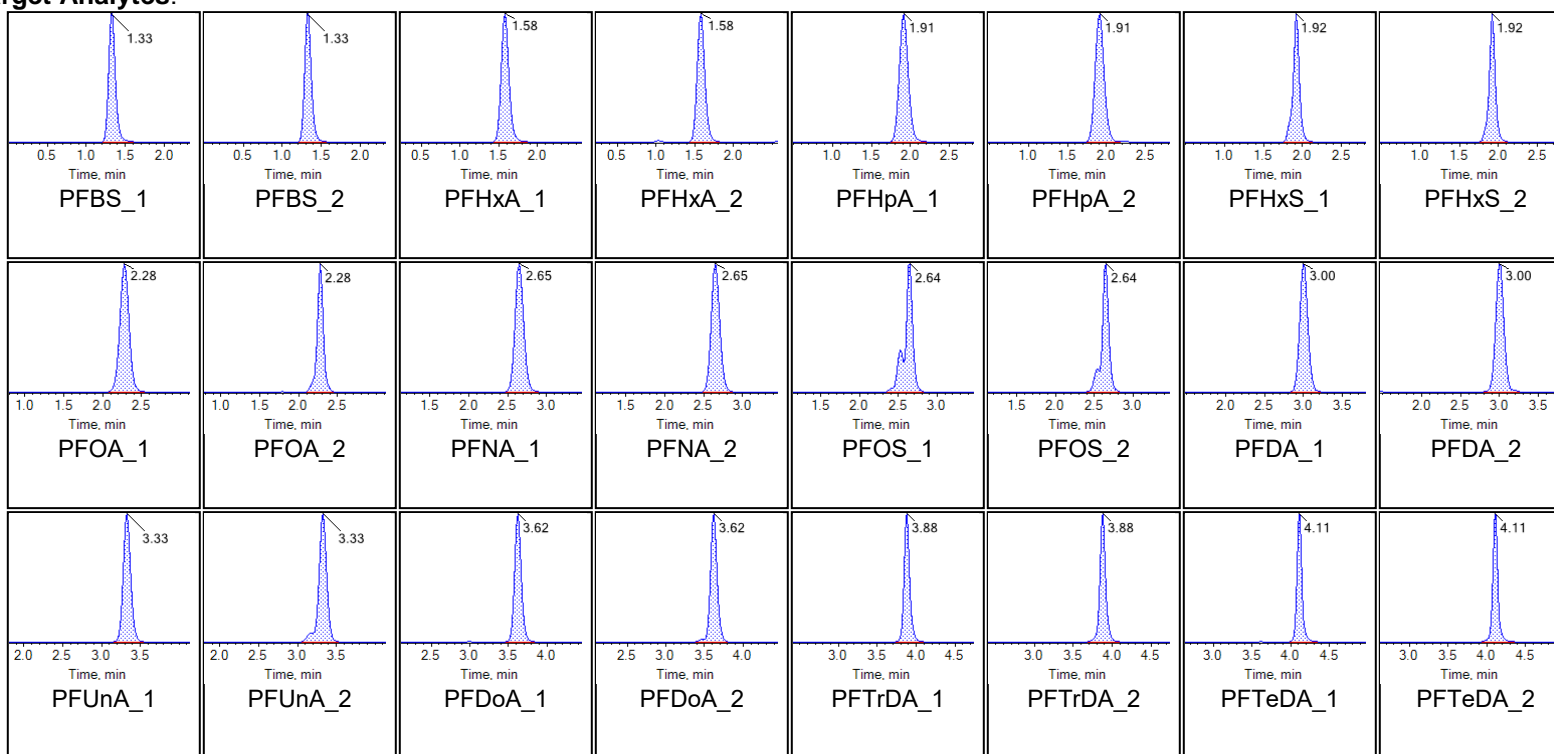
Chromatogram Report

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Sample Name	LD77 CCV	Injection Vial	12
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
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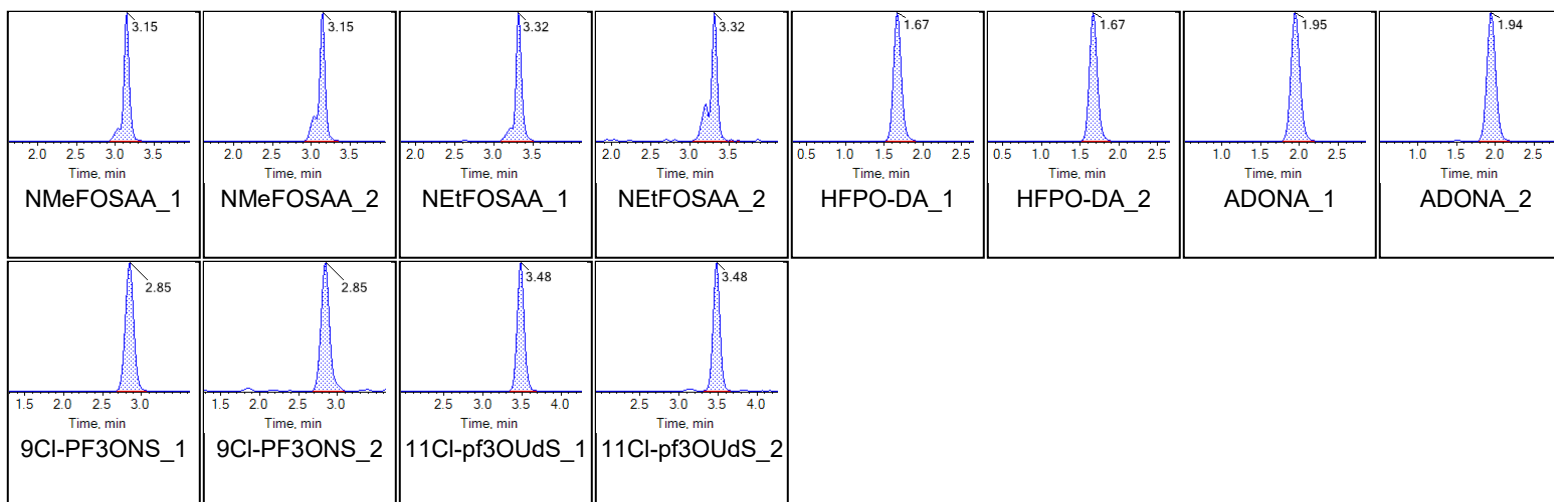
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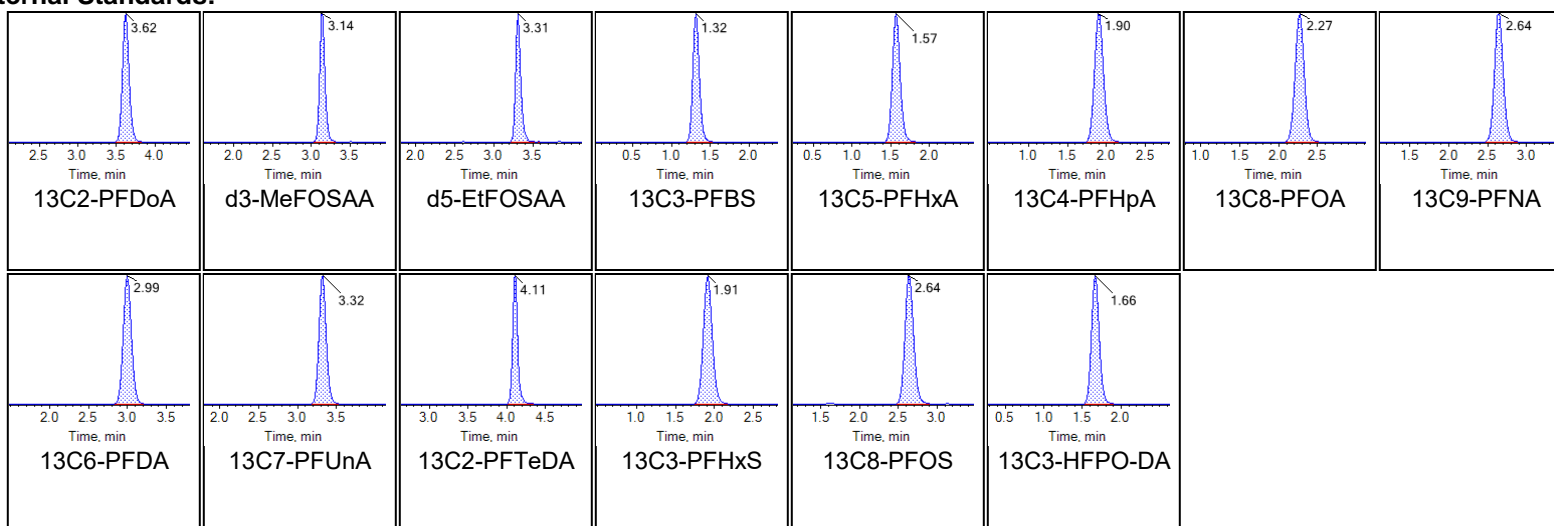




Chromatogram Report

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Internal Standards:





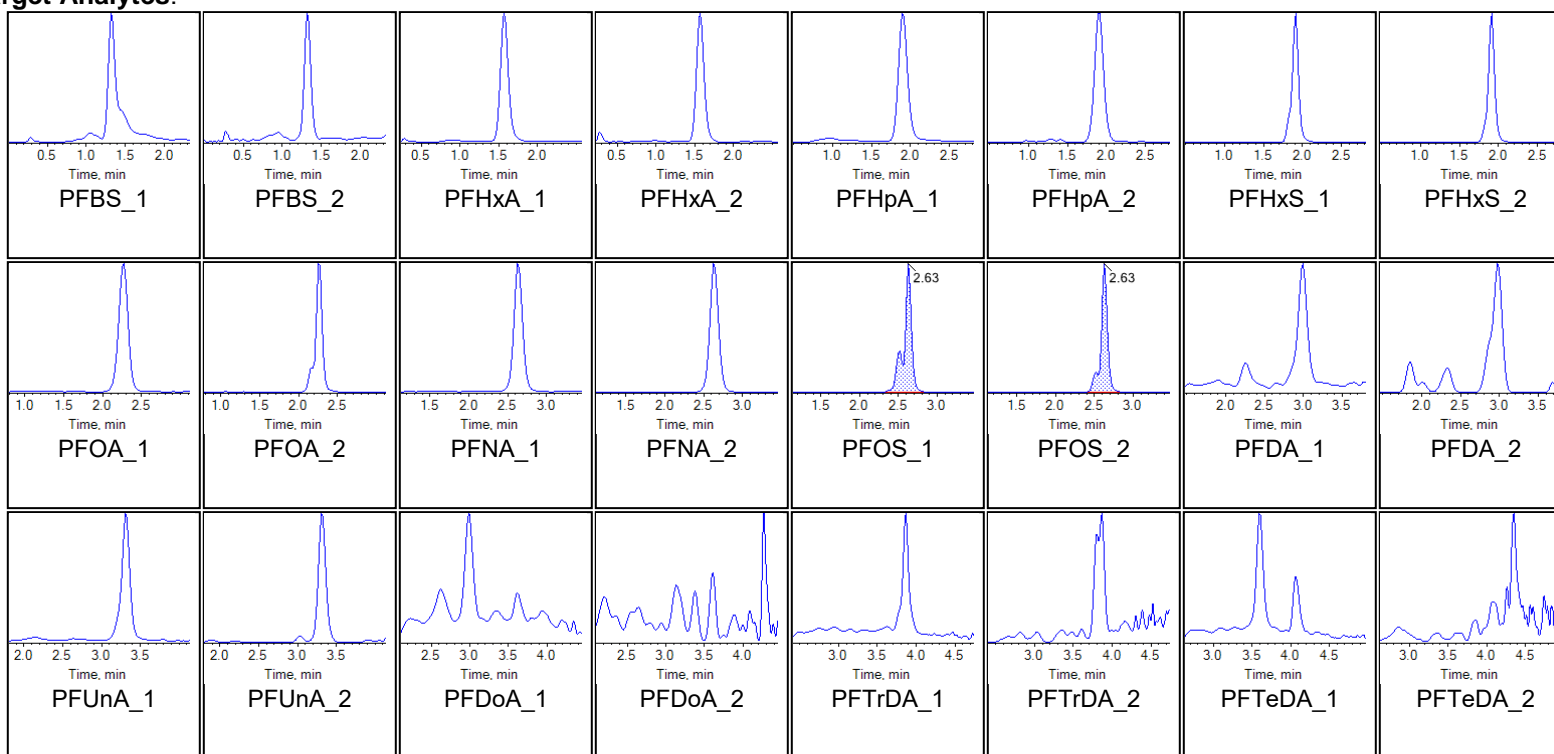
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Sample Name	G1663-FS-D(9)	Injection Vial	18
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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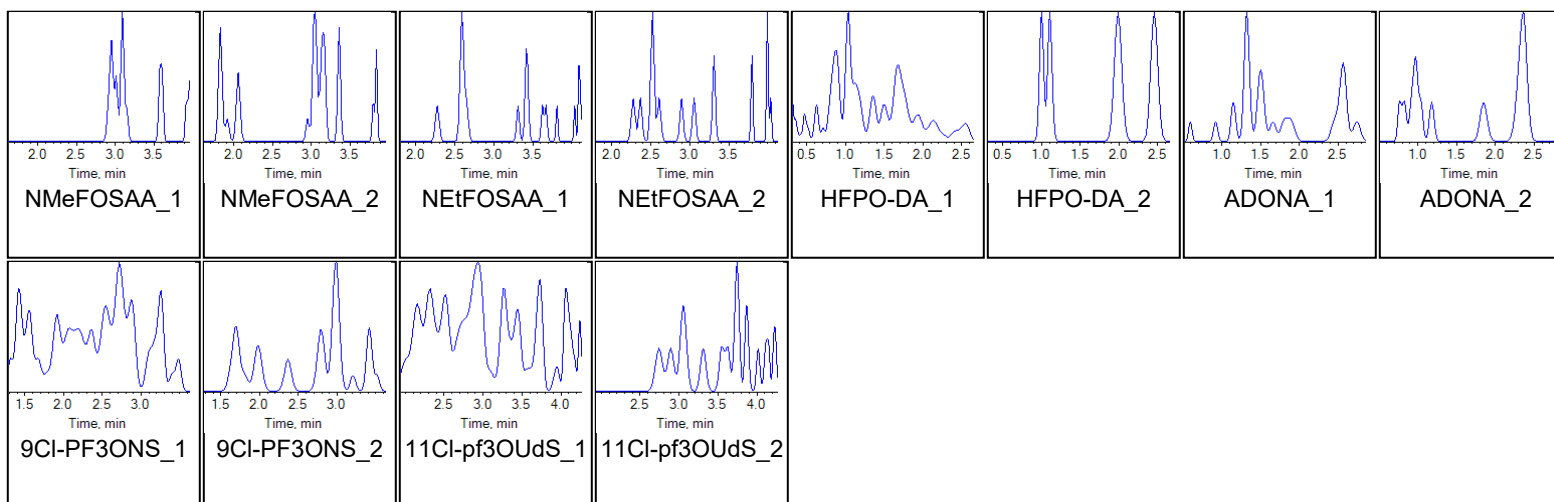
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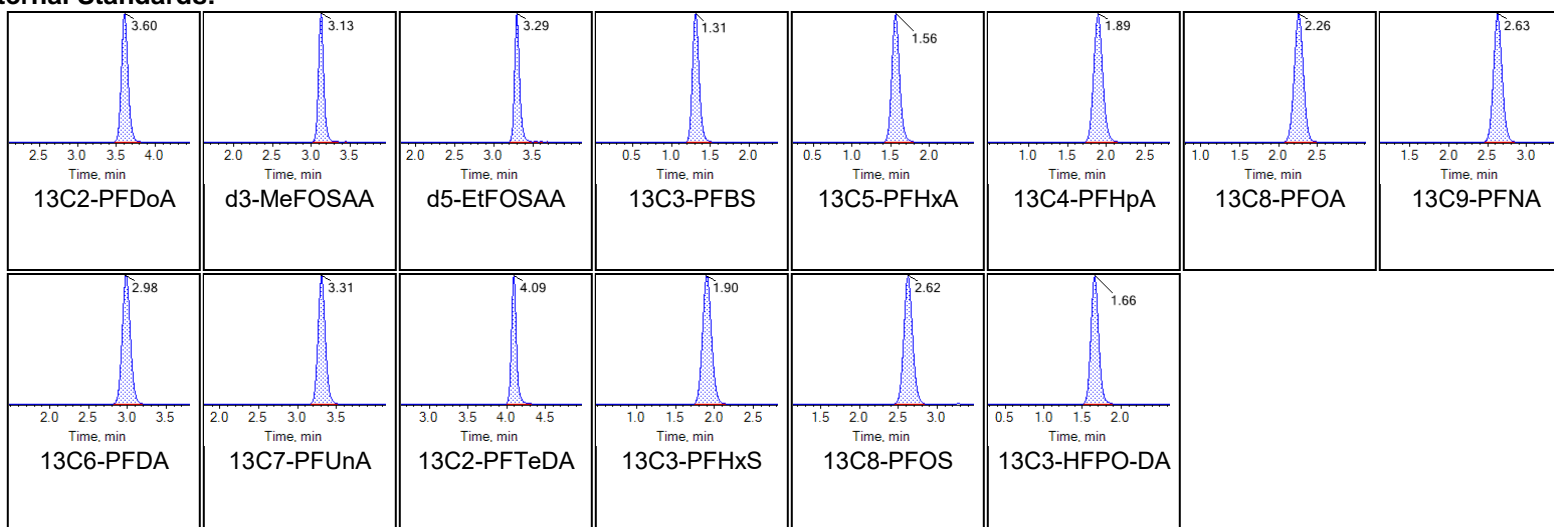




Chromatogram Report

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Internal Standards:





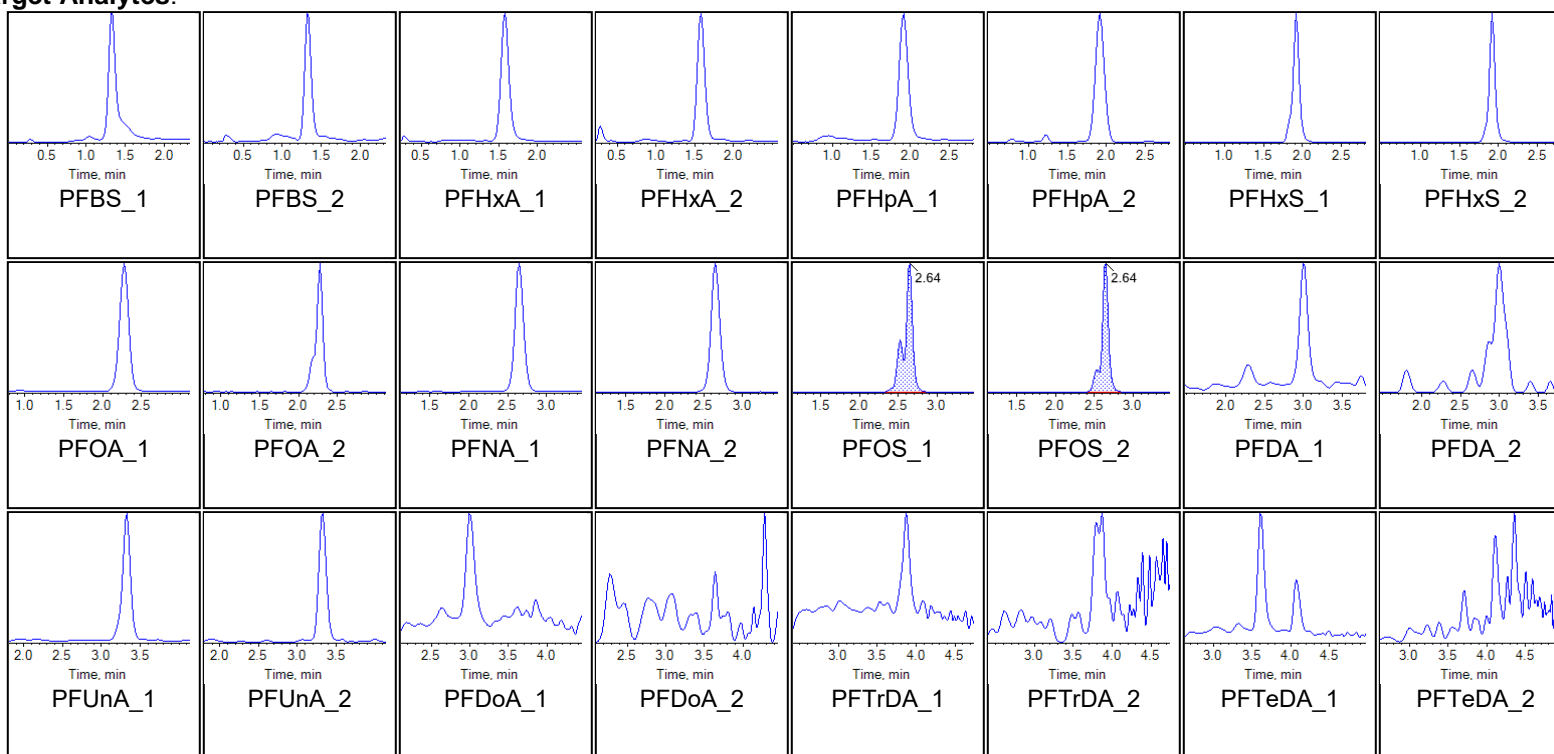
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Sample Name	G1665-FS-D(9)	Injection Vial	20
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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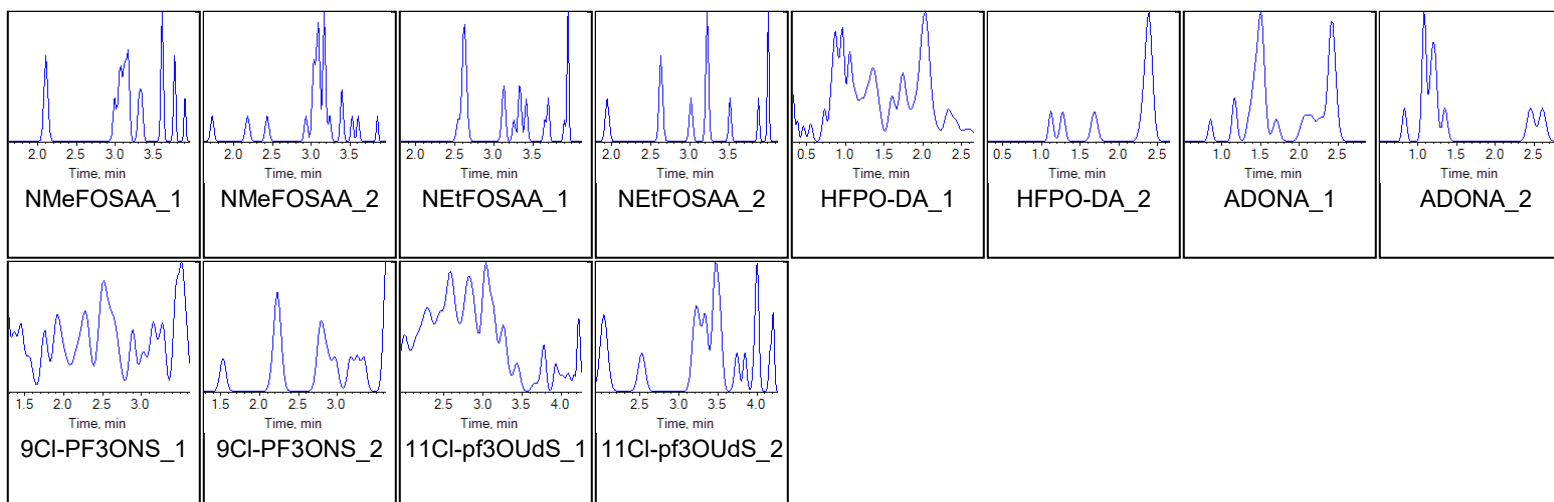
Chromatograms

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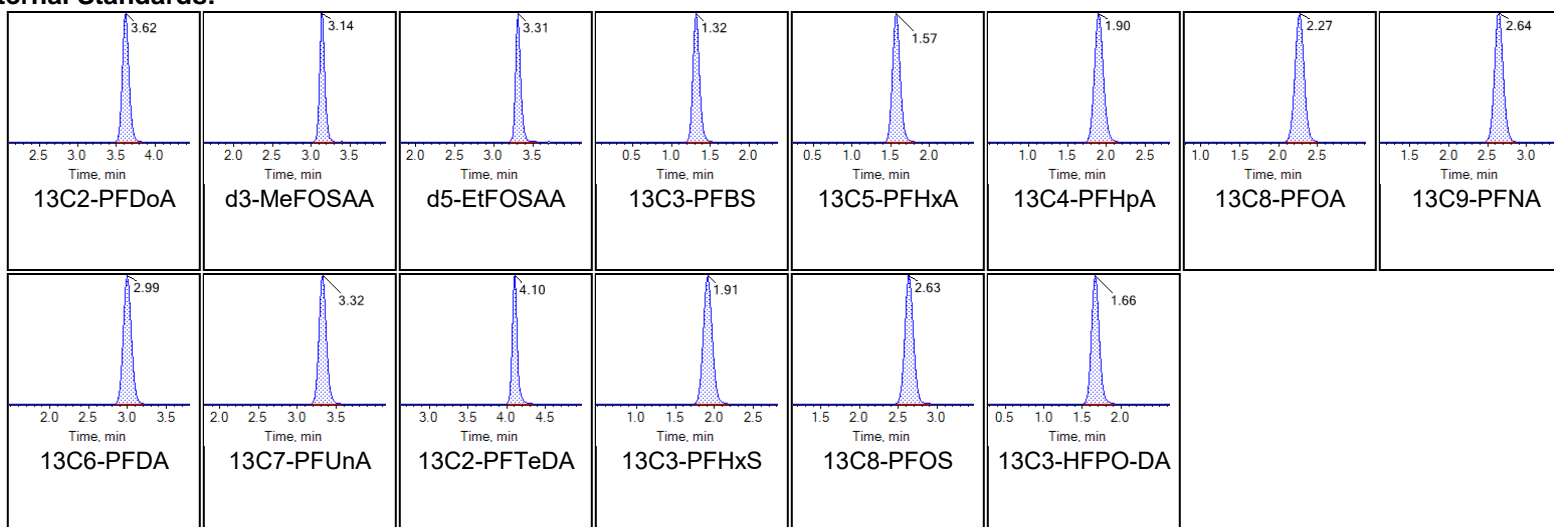




Chromatogram Report

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Internal Standards:





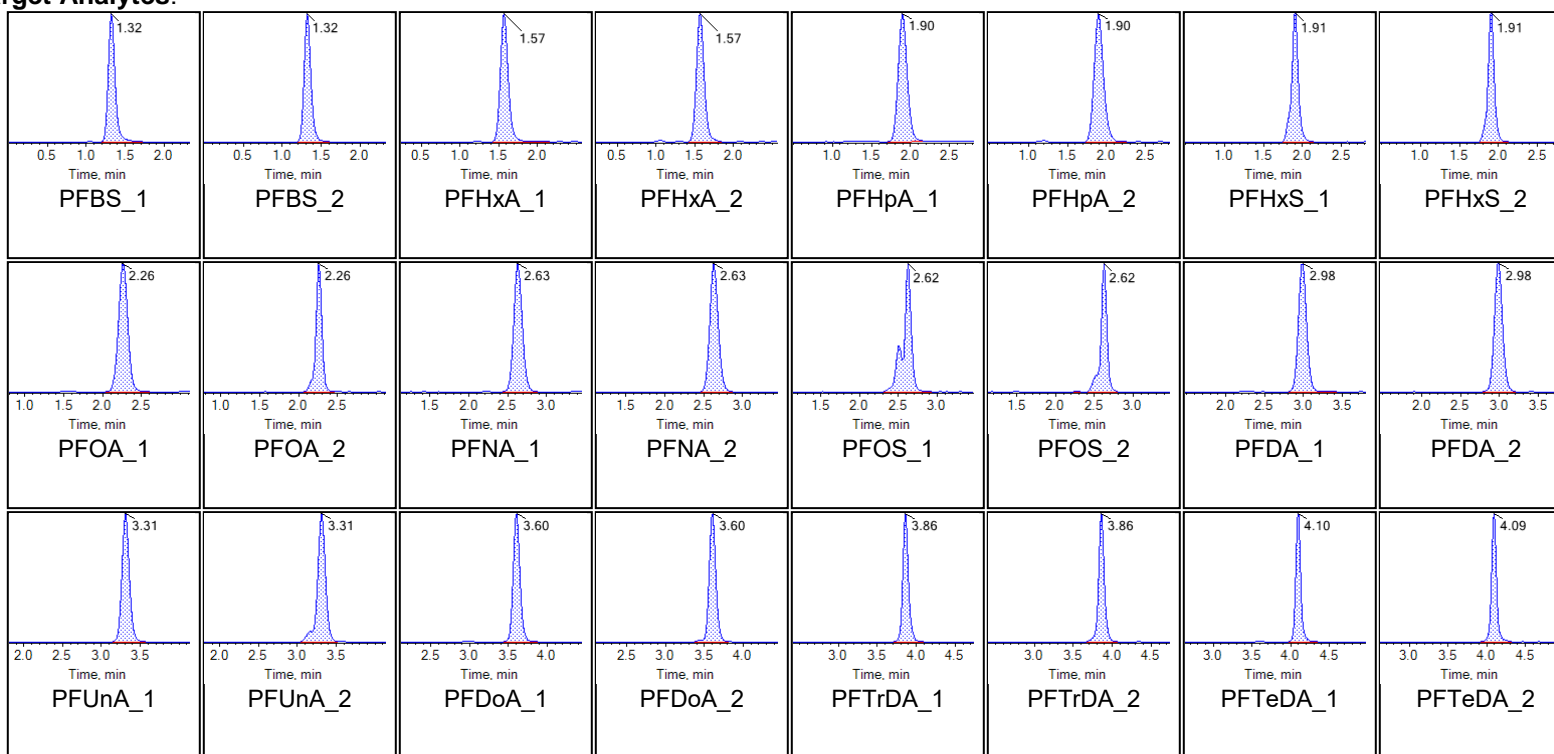
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD76 CCV	Injection Vial	23
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:57:25 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

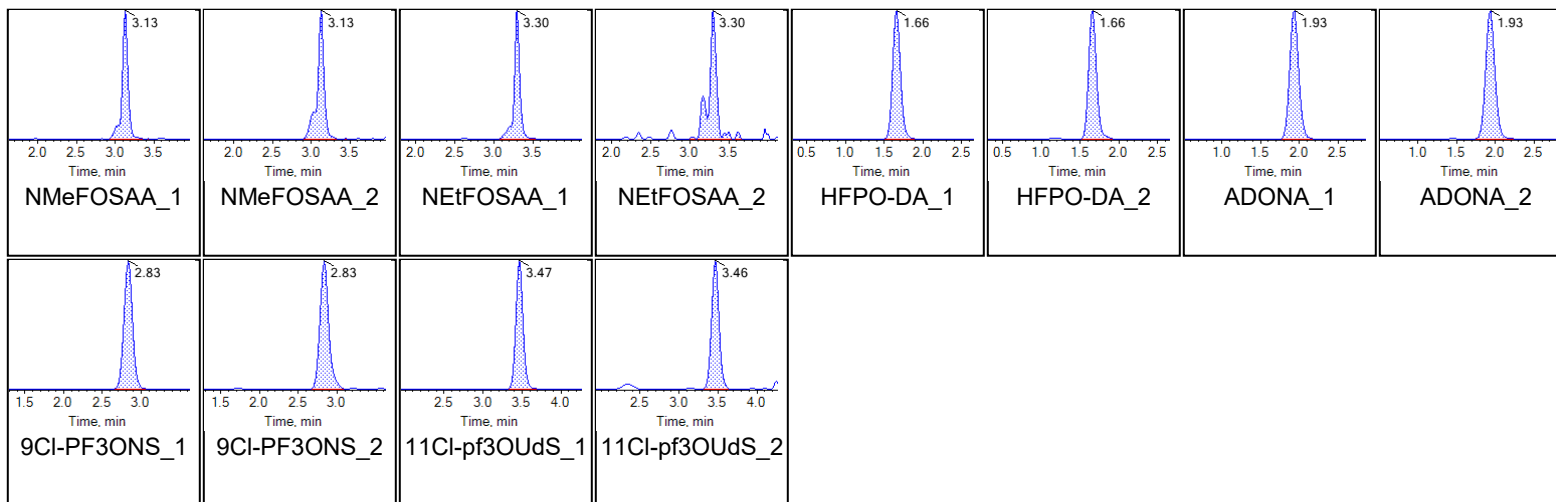
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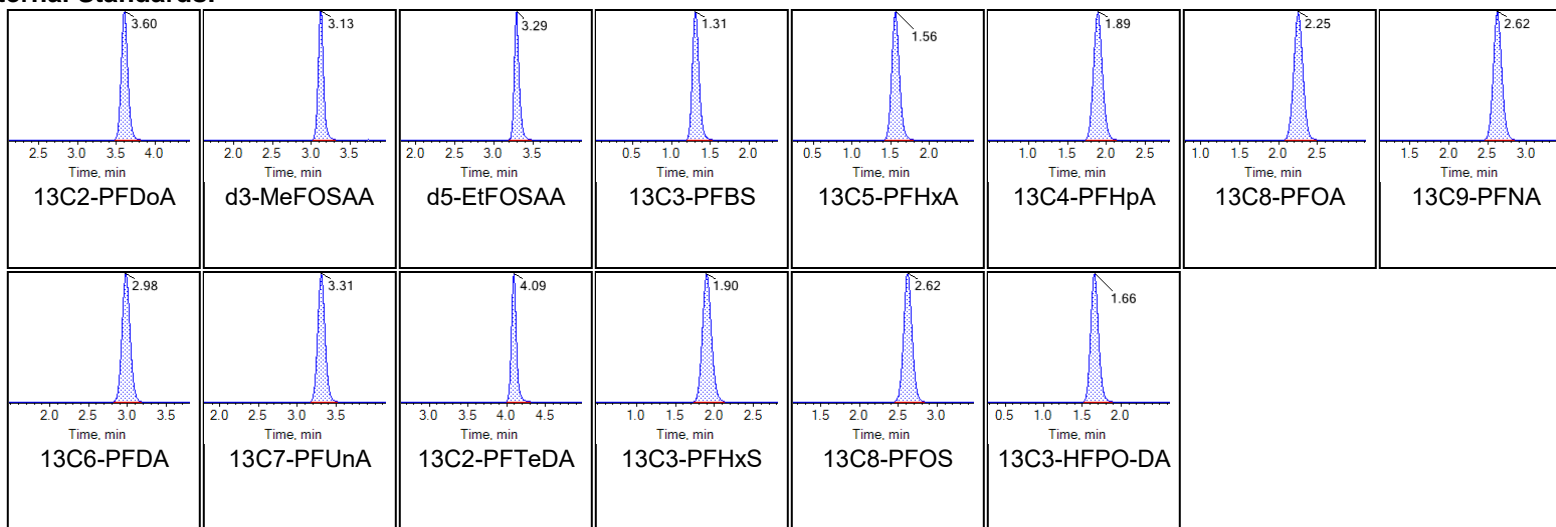


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Internal Standards:





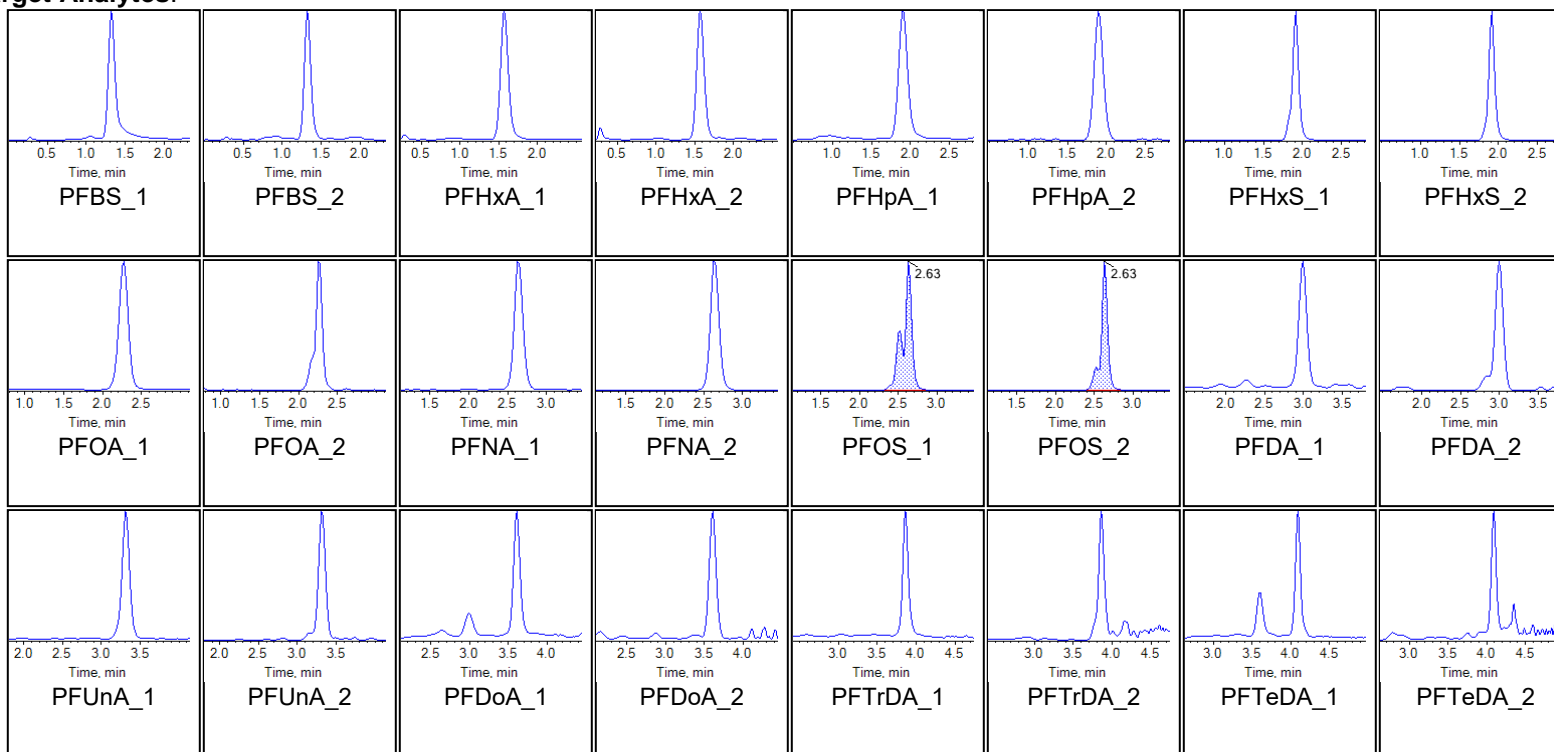
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Sample Name	G1666MS-FS-D(9)	Injection Vial	24
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:07:53 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

Chromatograms

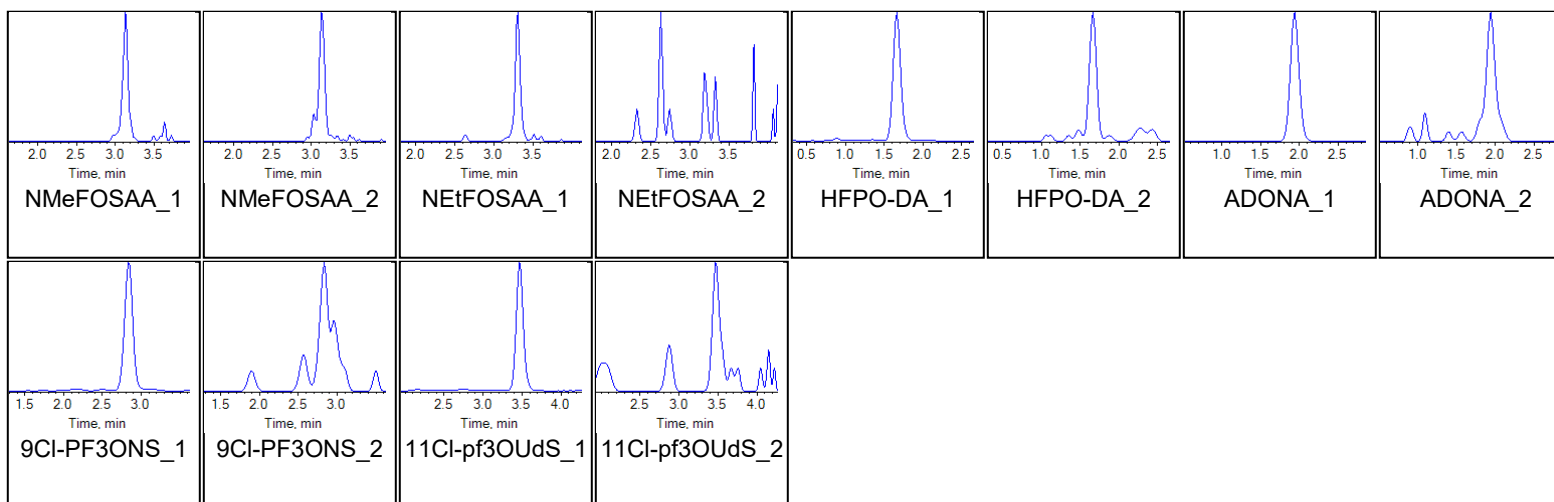
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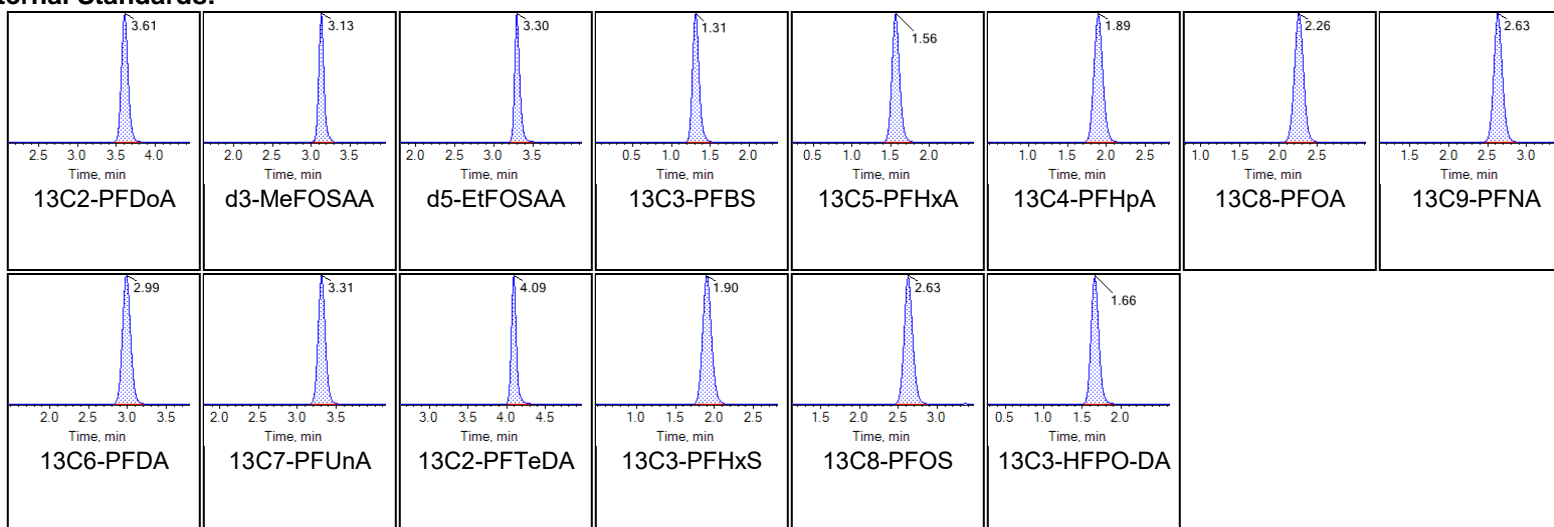


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Internal Standards:





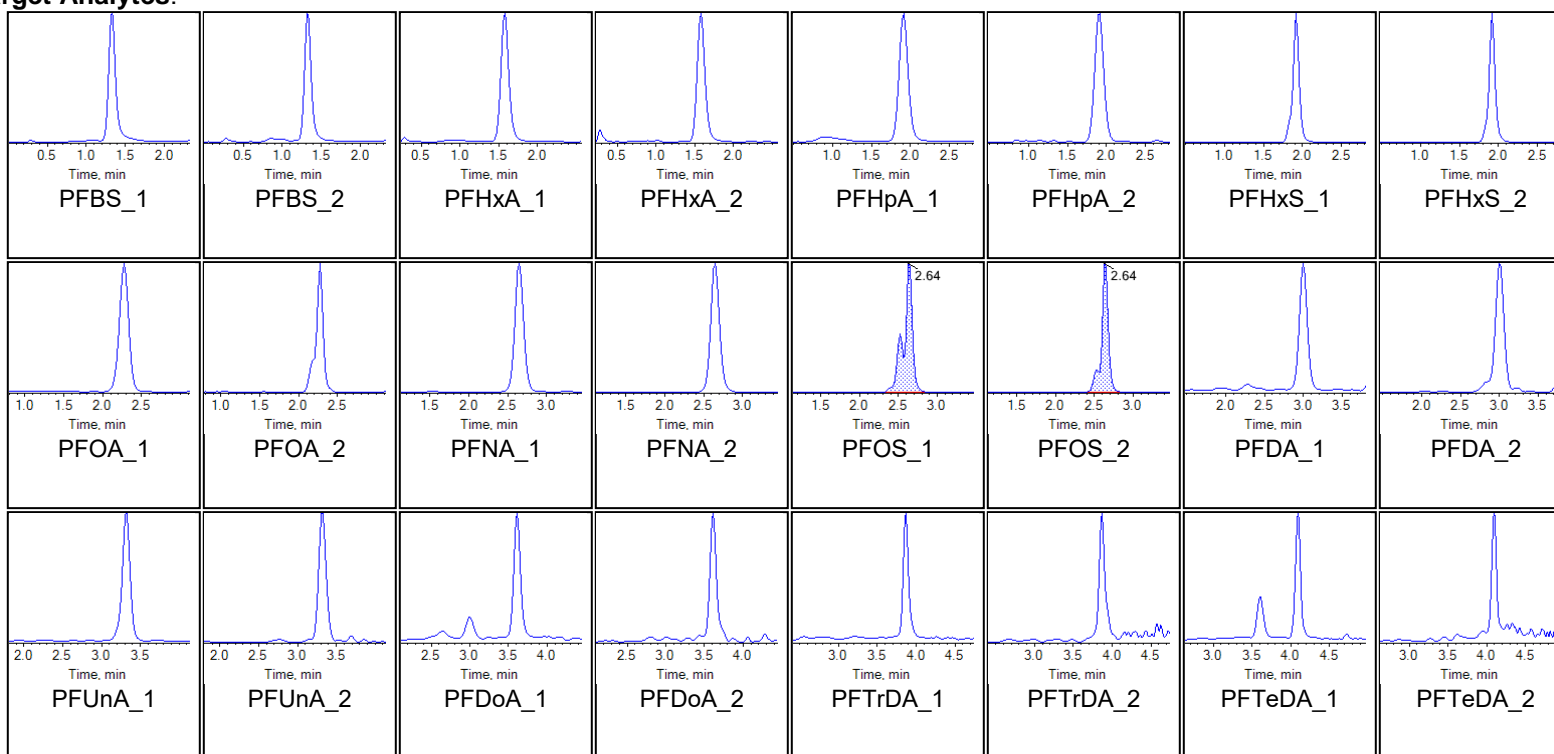
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	G1667MSD-FS-D(9)	Injection Vial	26
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:28:49 PM	Data File	AE_11032020_5-369.wiff
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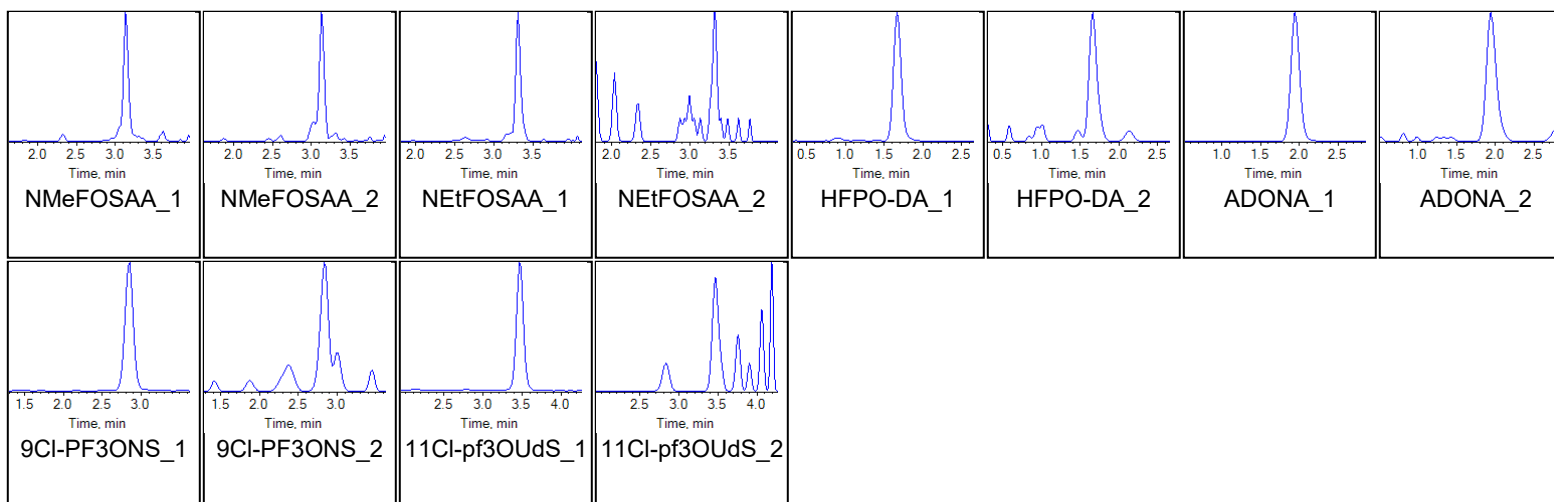
Chromatograms

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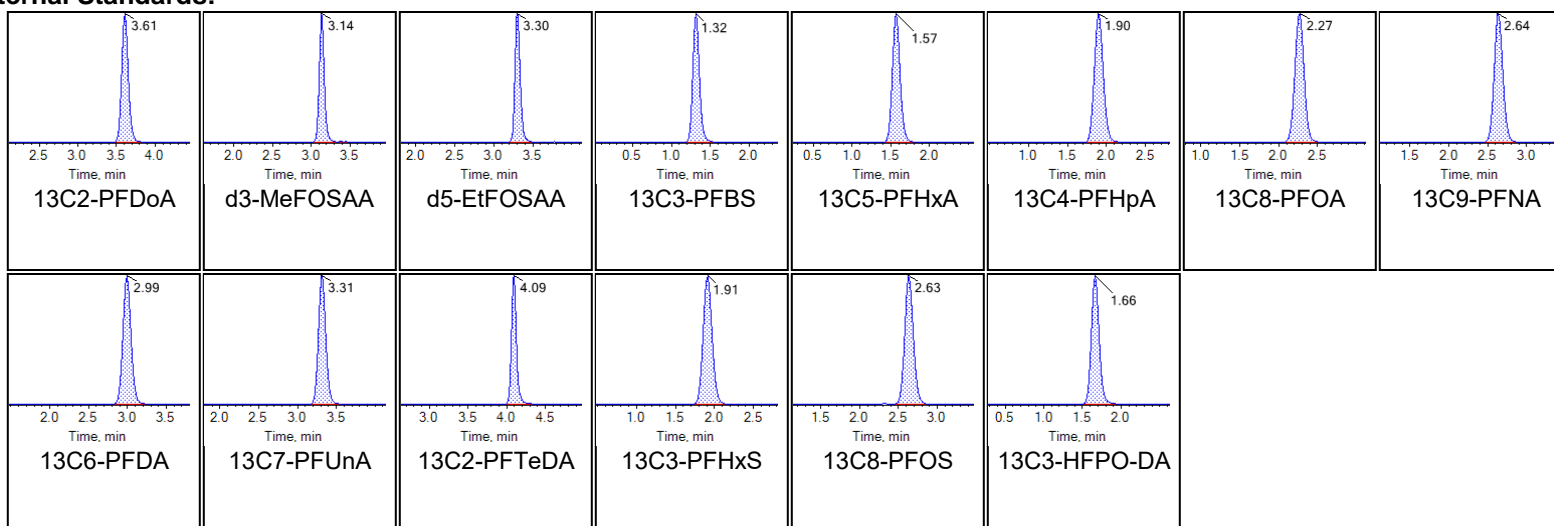




Chromatogram Report

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Internal Standards:





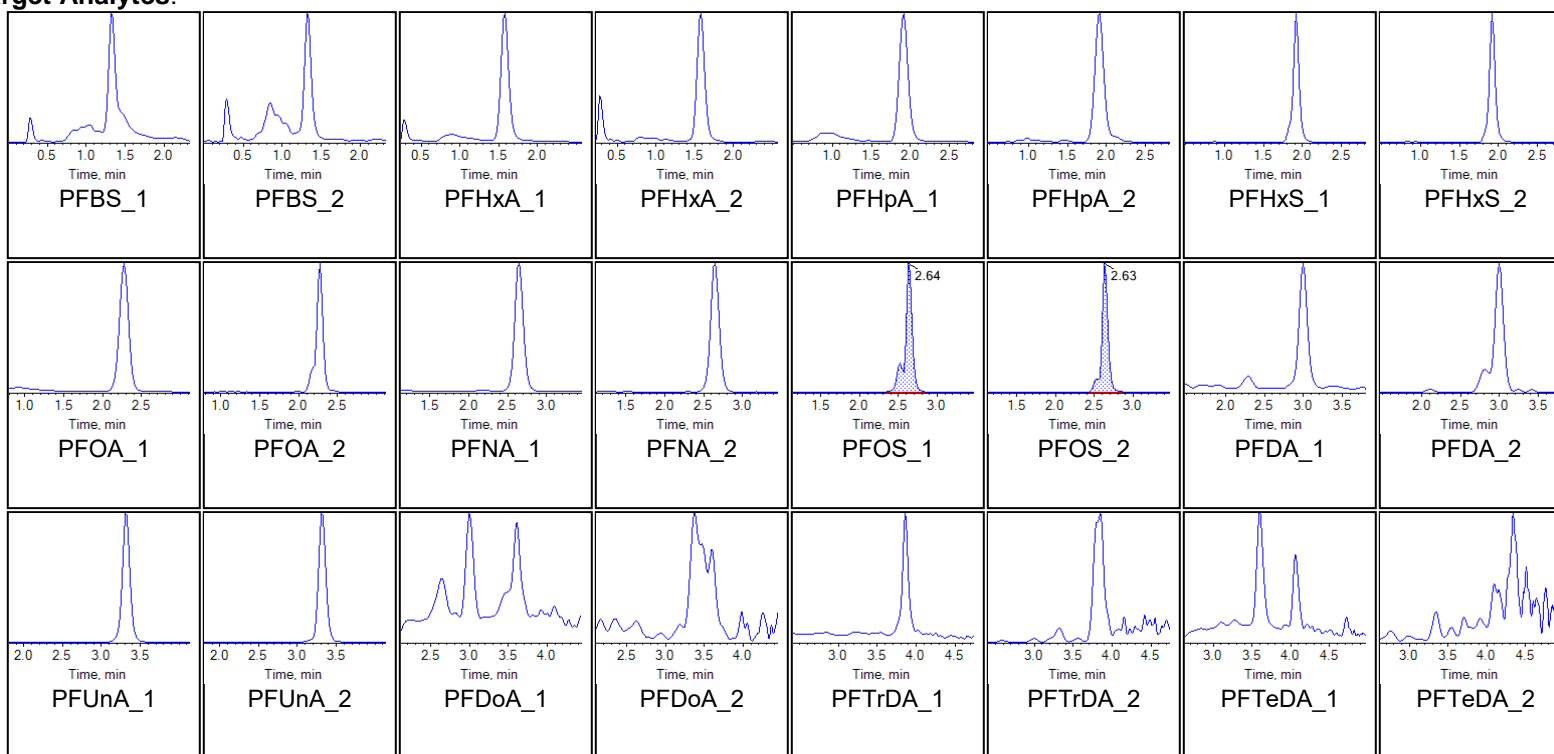
Chromatogram Report

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Sample Name	G1668-FS-D(7)	Injection Vial	28
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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Acquisition Method	5-369.dam	Result Table	20-1298

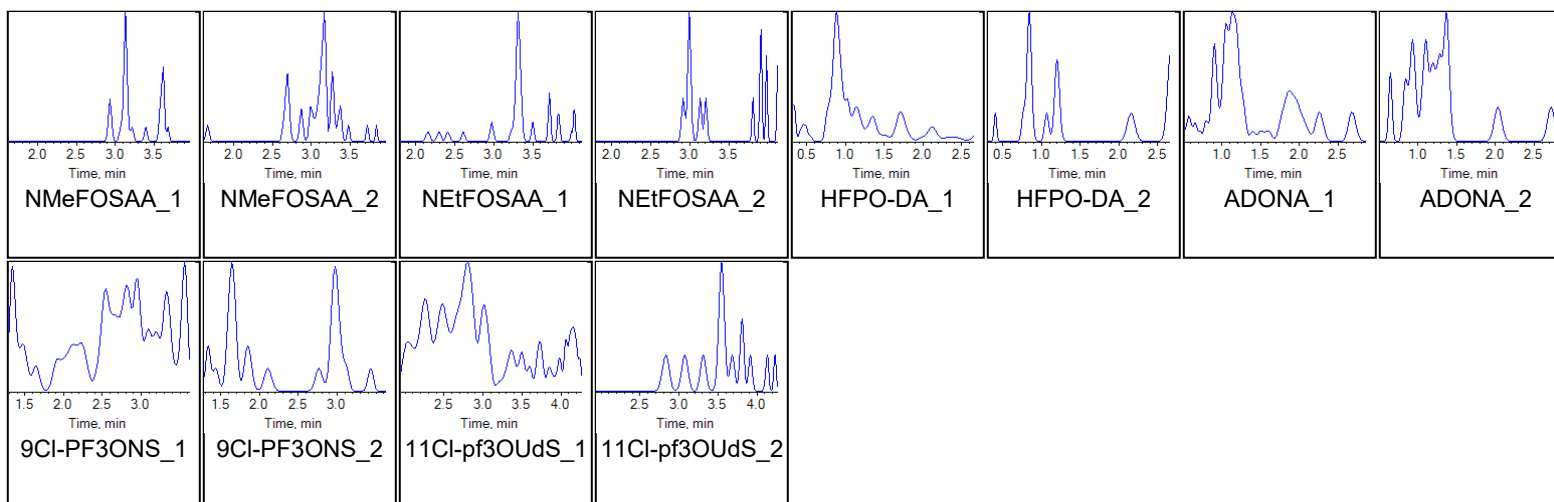
Chromatograms

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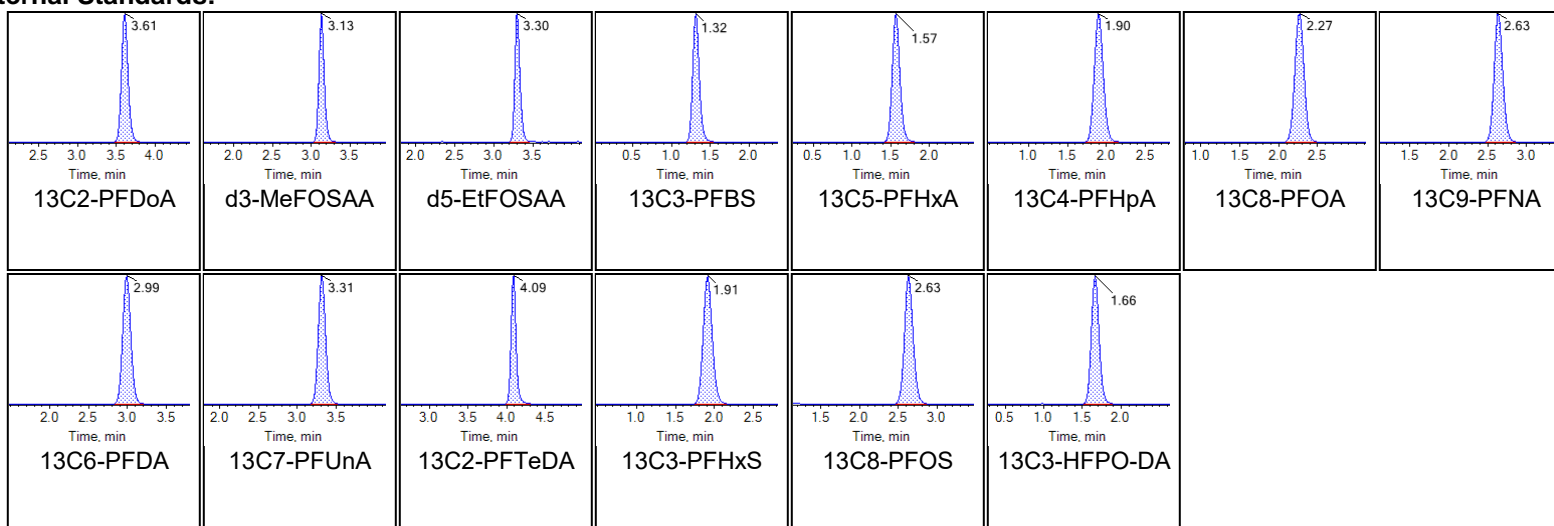




Chromatogram Report

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Internal Standards:





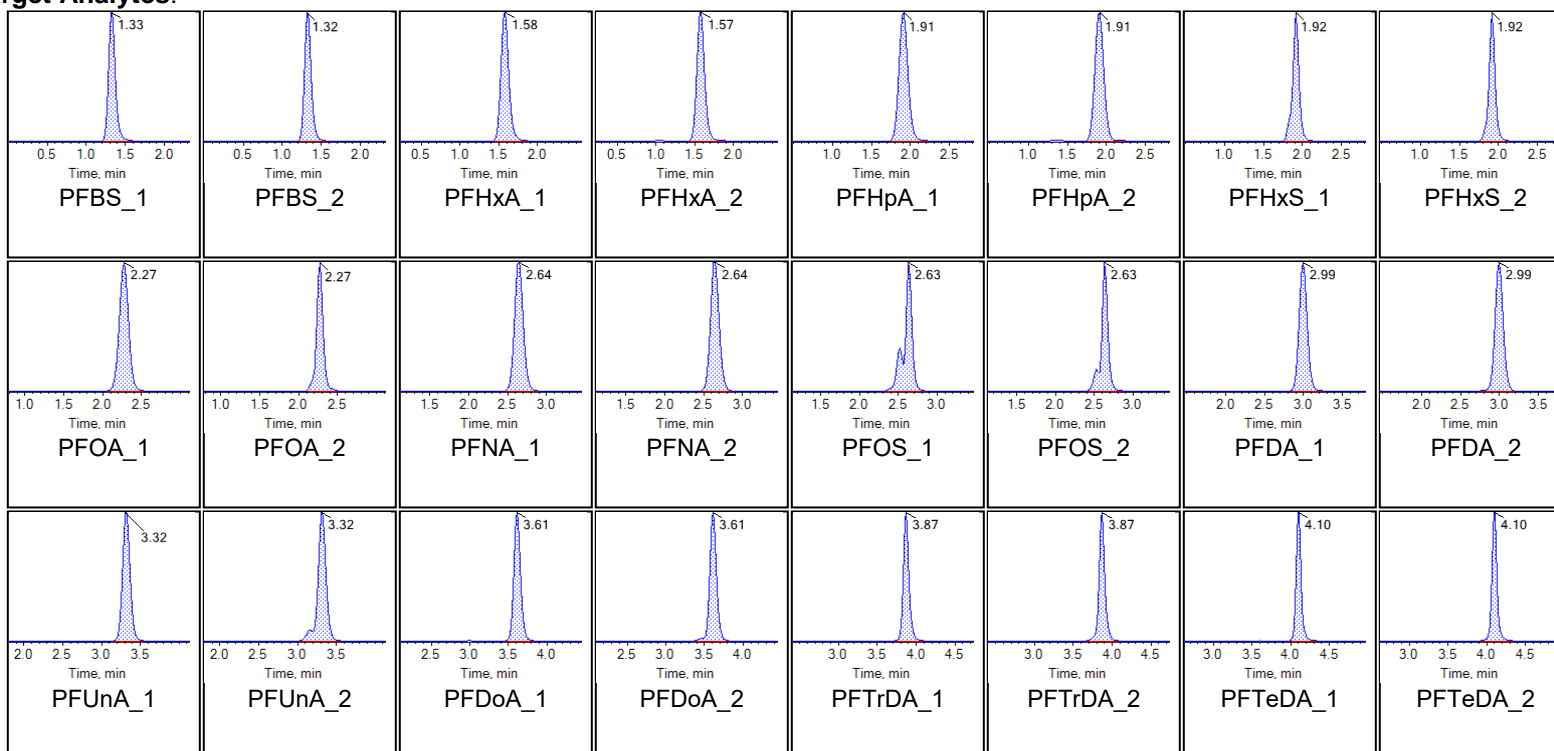
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 5:08:23 PM

Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 11:10:40 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298

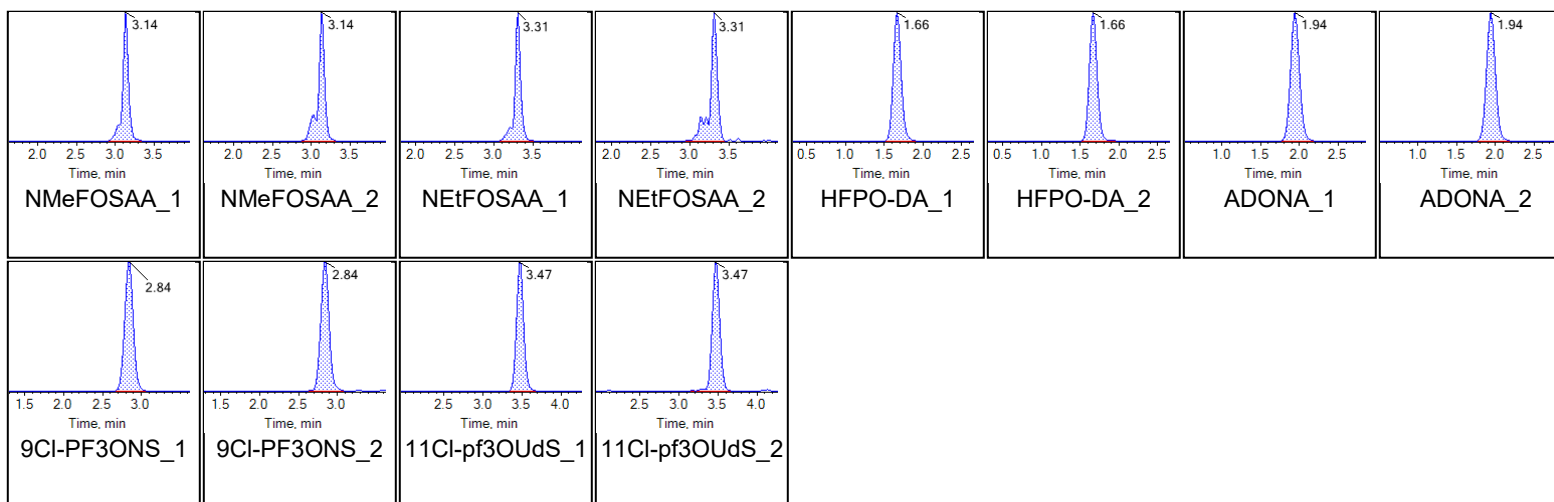
Chromatograms

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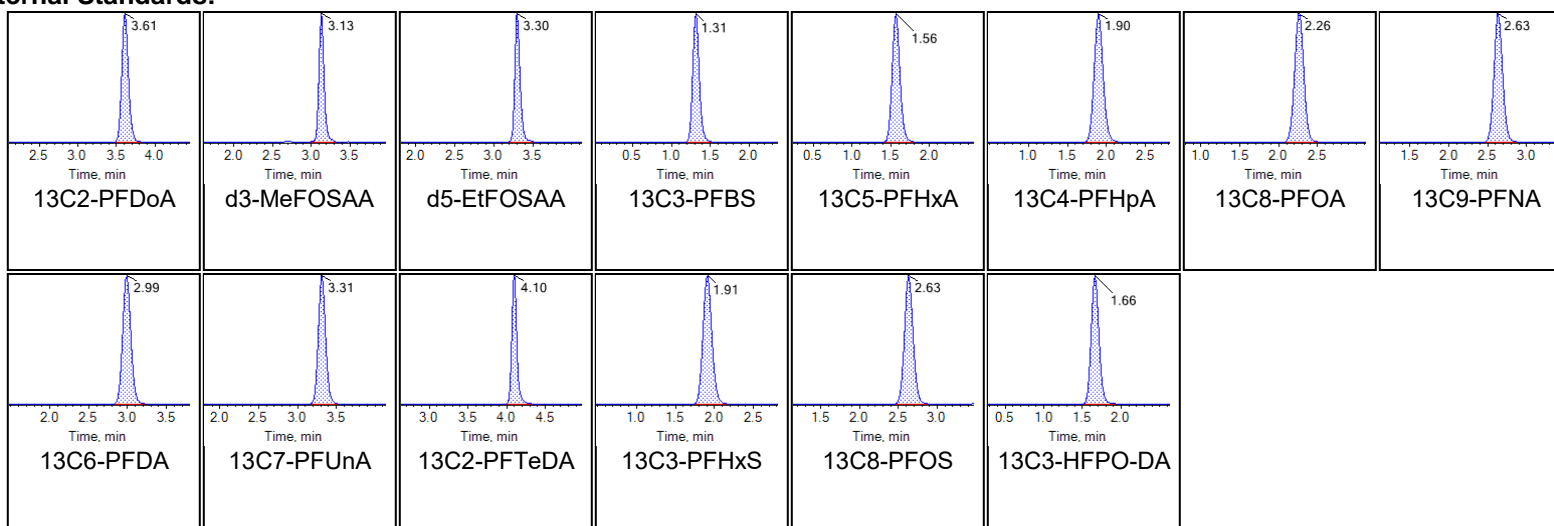




Chromatogram Report

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Internal Standards:





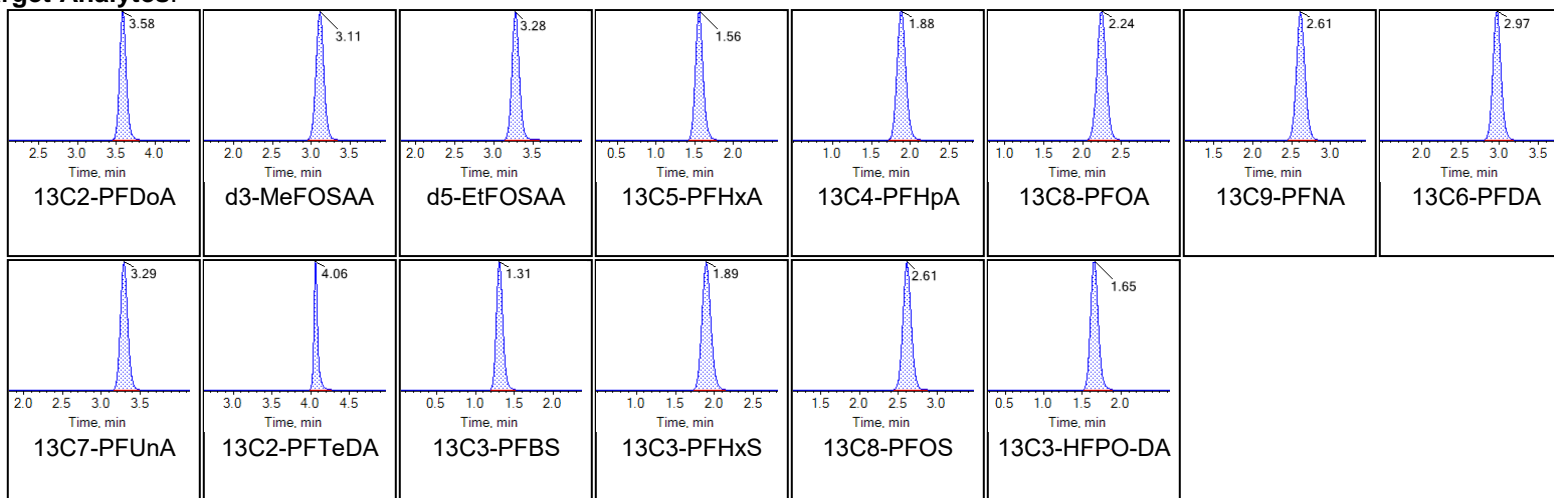
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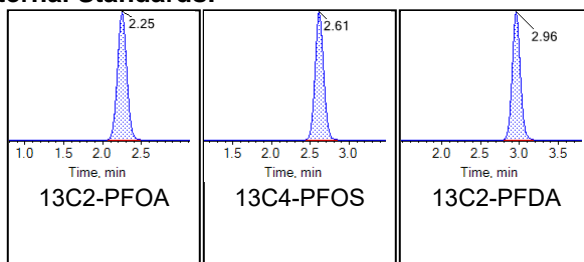
Sample Name	LD74	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:07:41 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





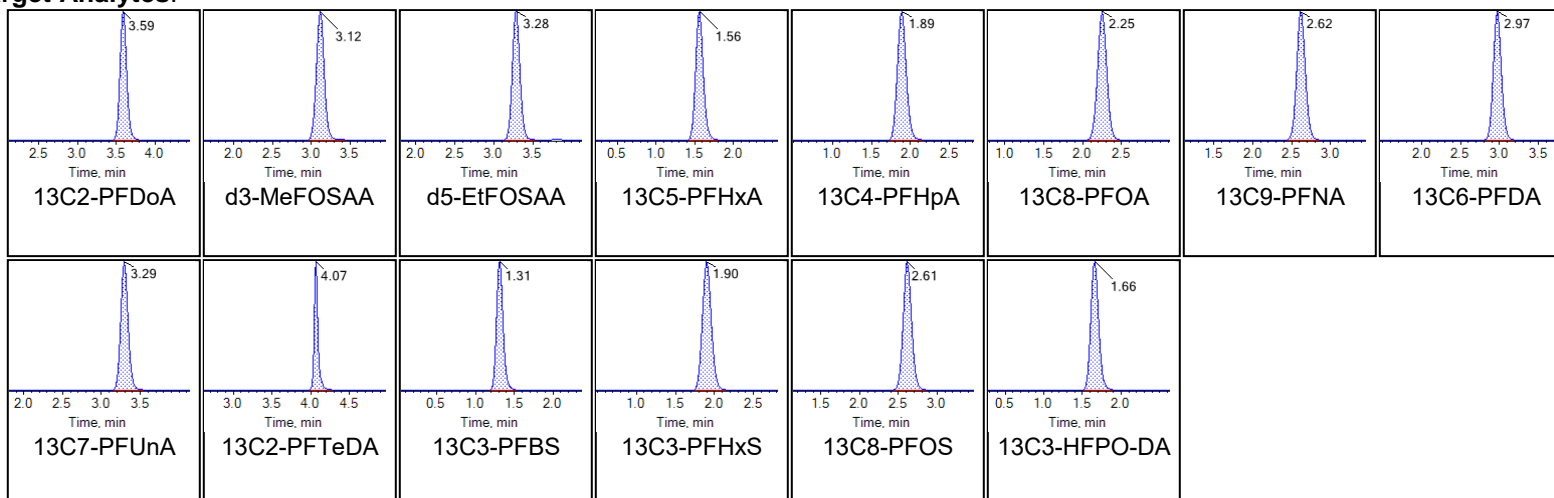
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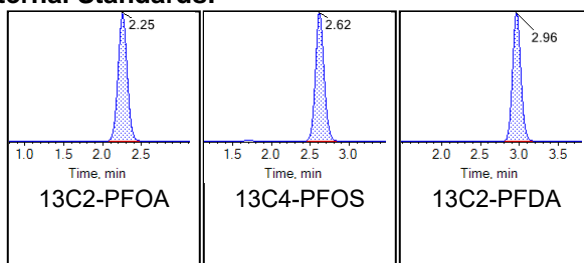
Sample Name	LD75	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:18:08 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





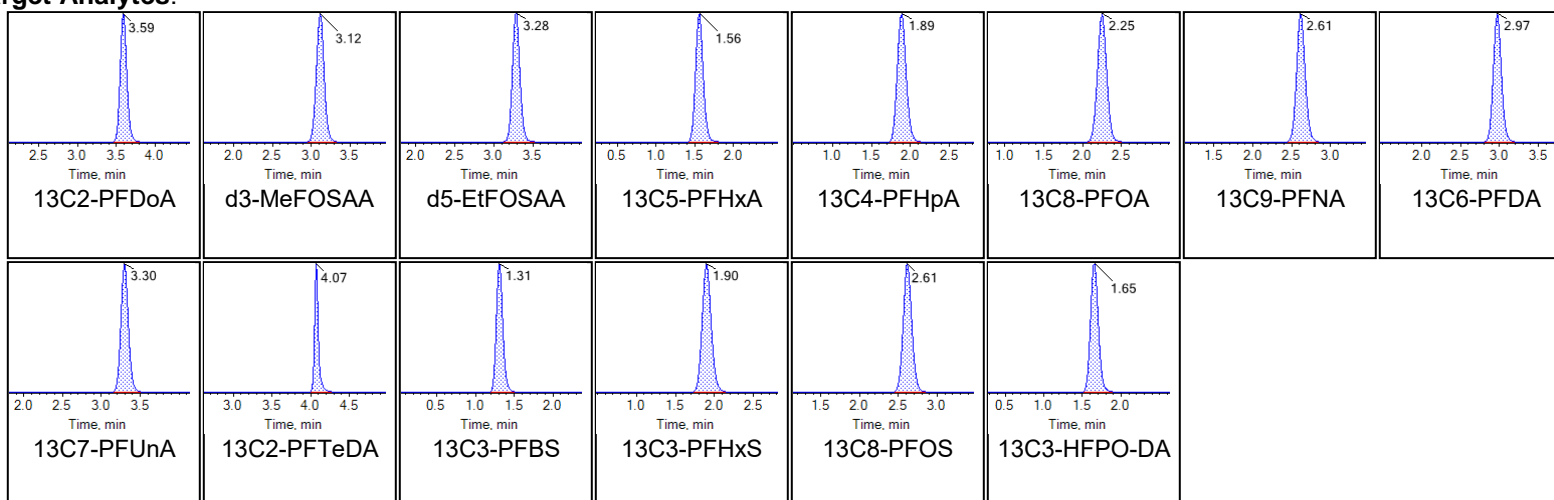
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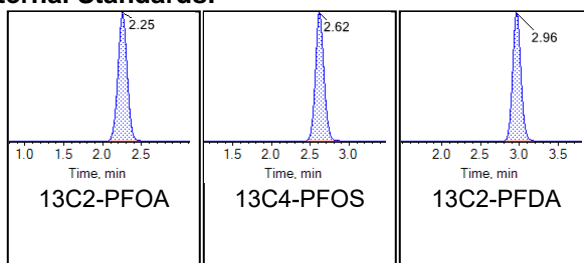
Sample Name	LD76	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:28:36 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





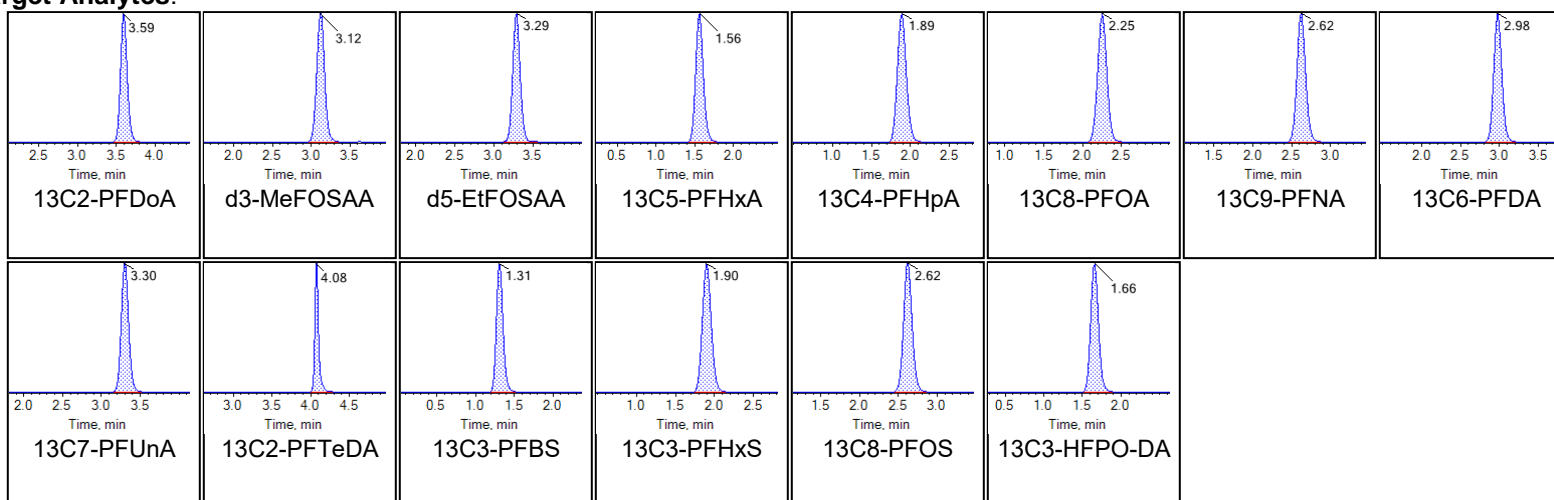
Chromatogram Report

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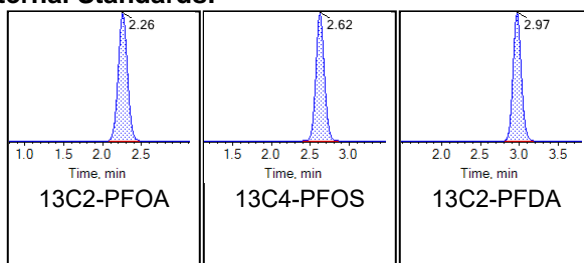
Sample Name	LD77	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
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Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





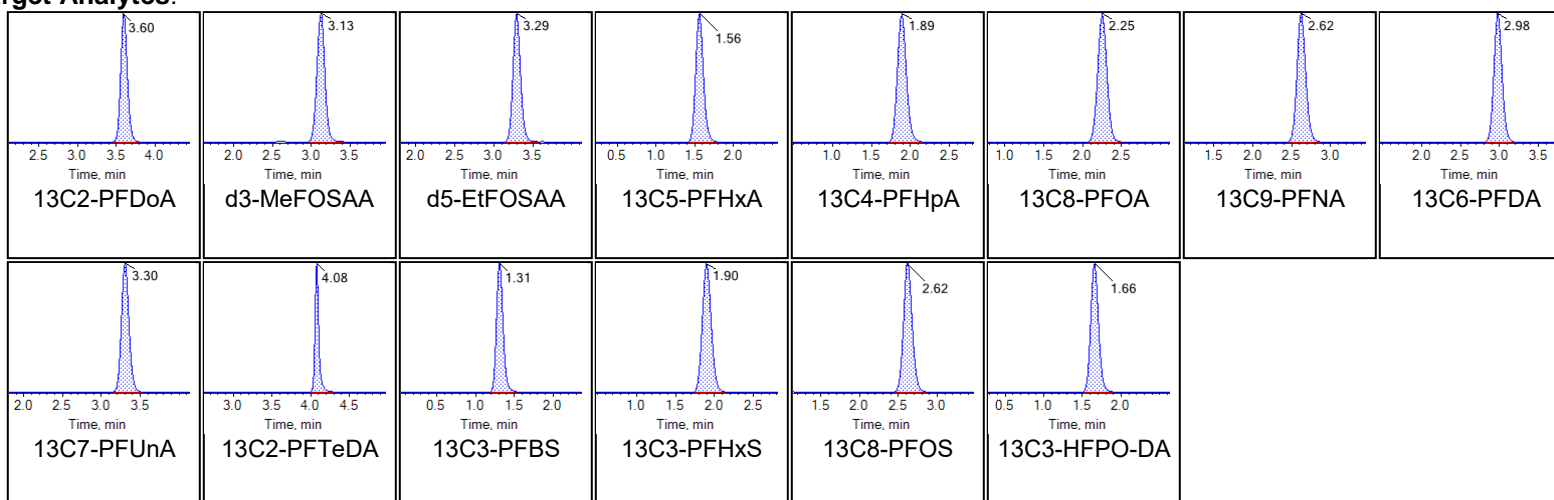
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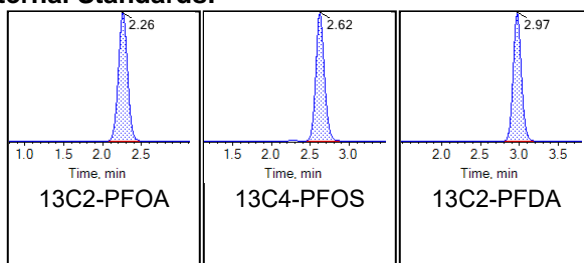
Sample Name	LD78	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:49:29 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





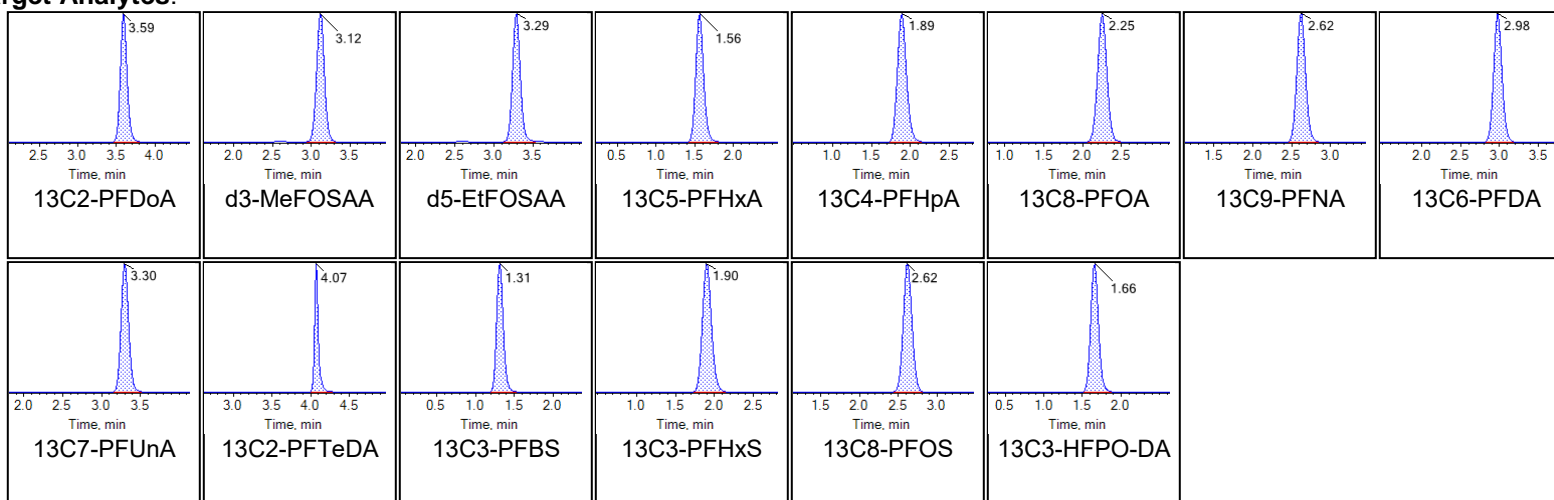
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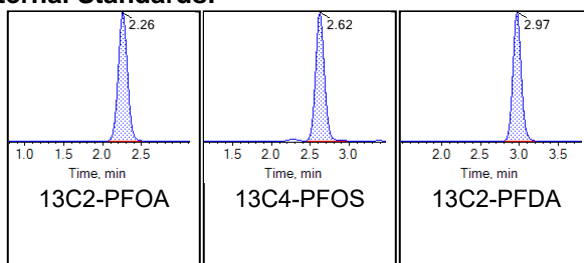
Sample Name	LD79	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 3:59:58 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





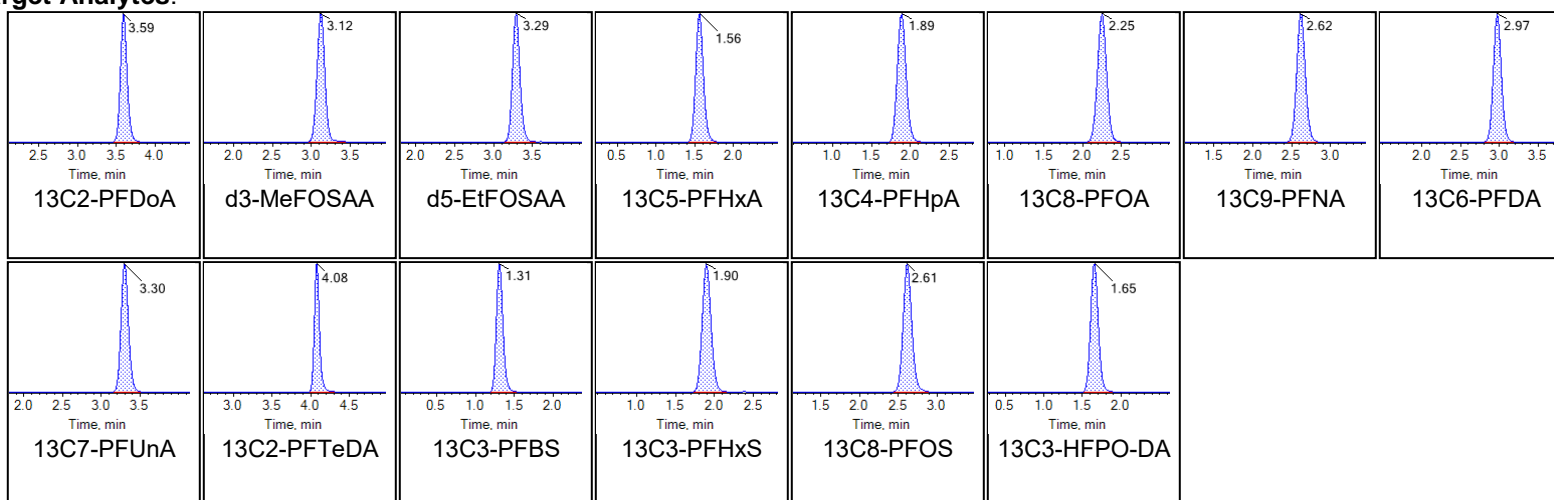
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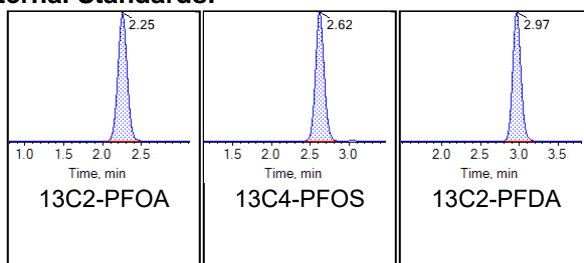
Sample Name	LD80 IB	Injection Vial	8
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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Chromatograms

Target Analytes:



Internal Standards:





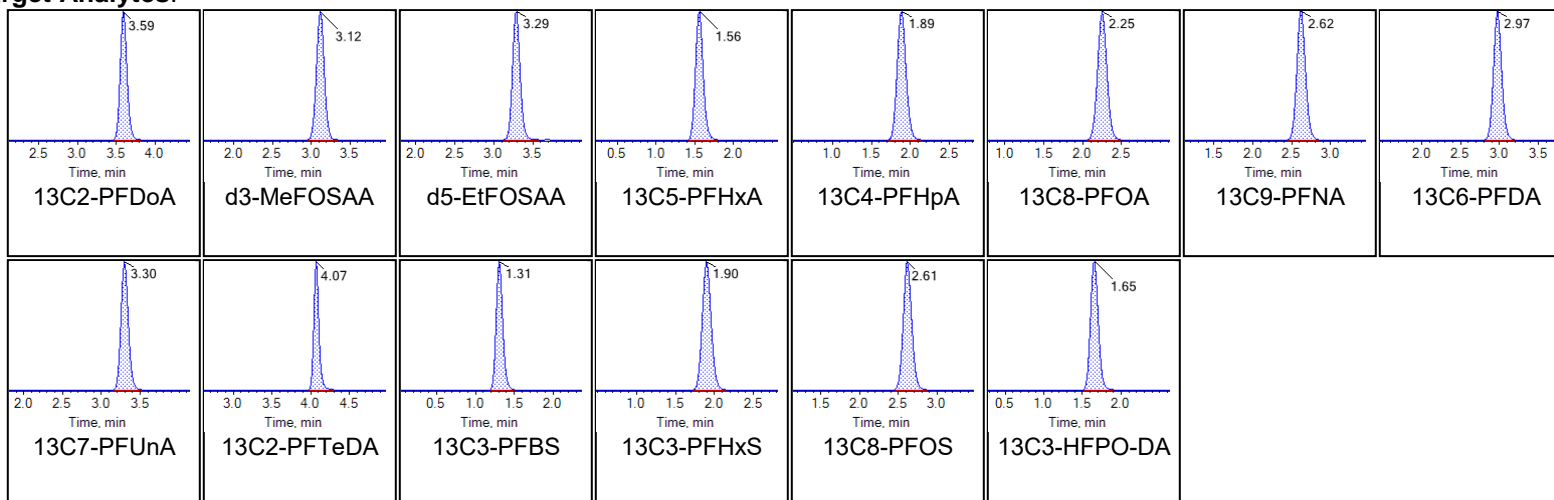
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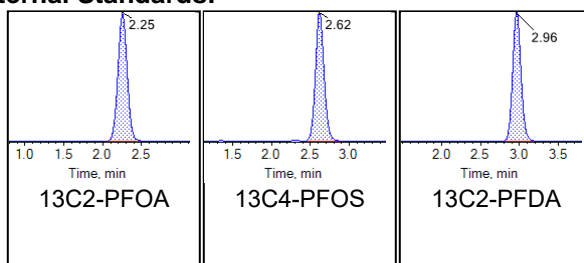
Sample Name	LD81 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	10/30/2020 4:20:54 AM	Data File	AE_10292020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





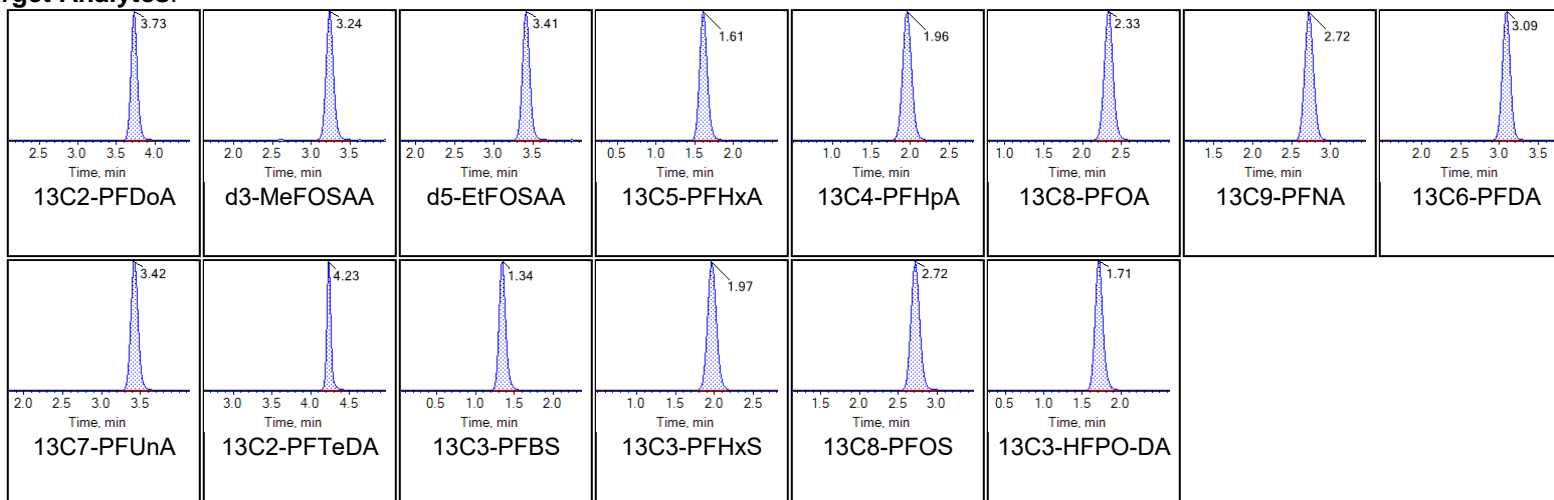
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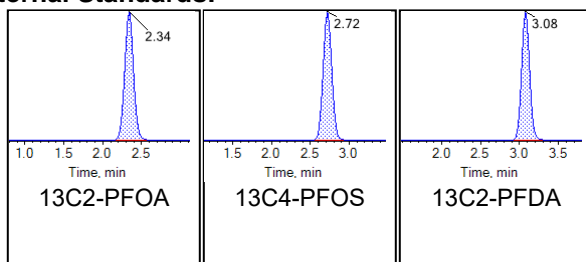
Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 9:34:18 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





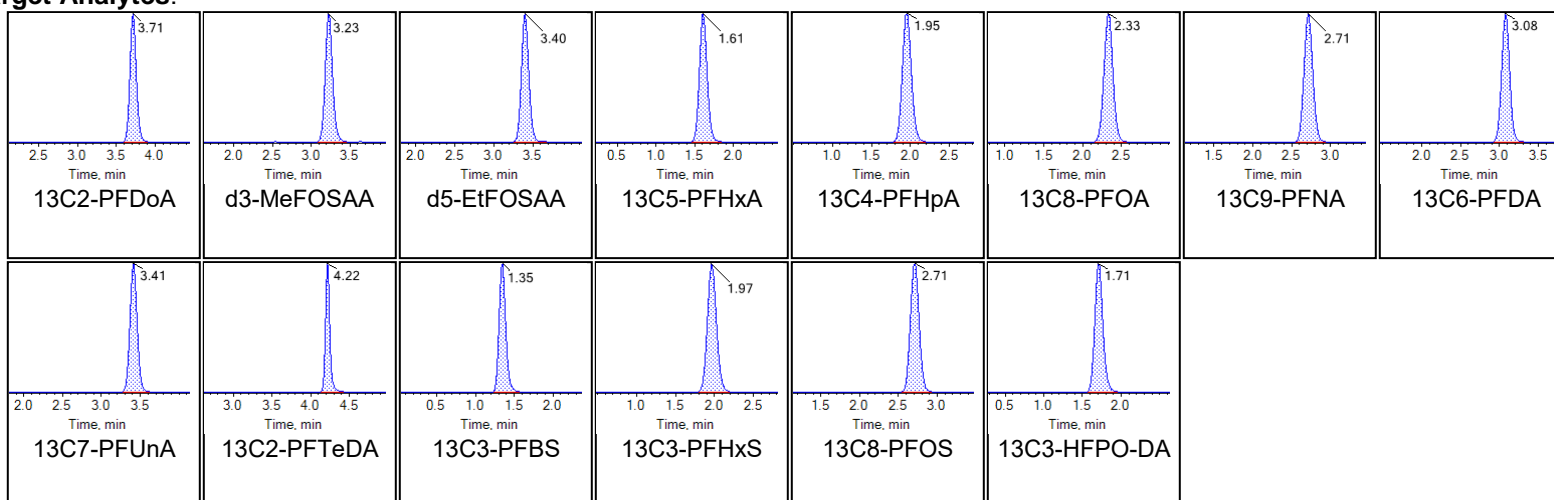
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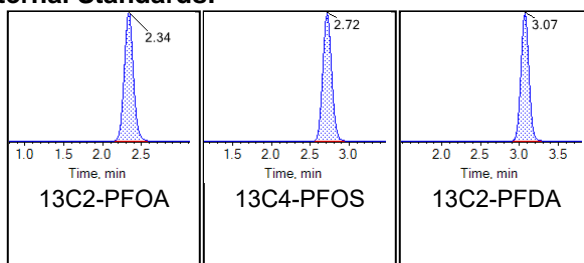
Sample Name	LD80 IB	Injection Vial	4
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 9:55:12 AM	Data File	AE_11022020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





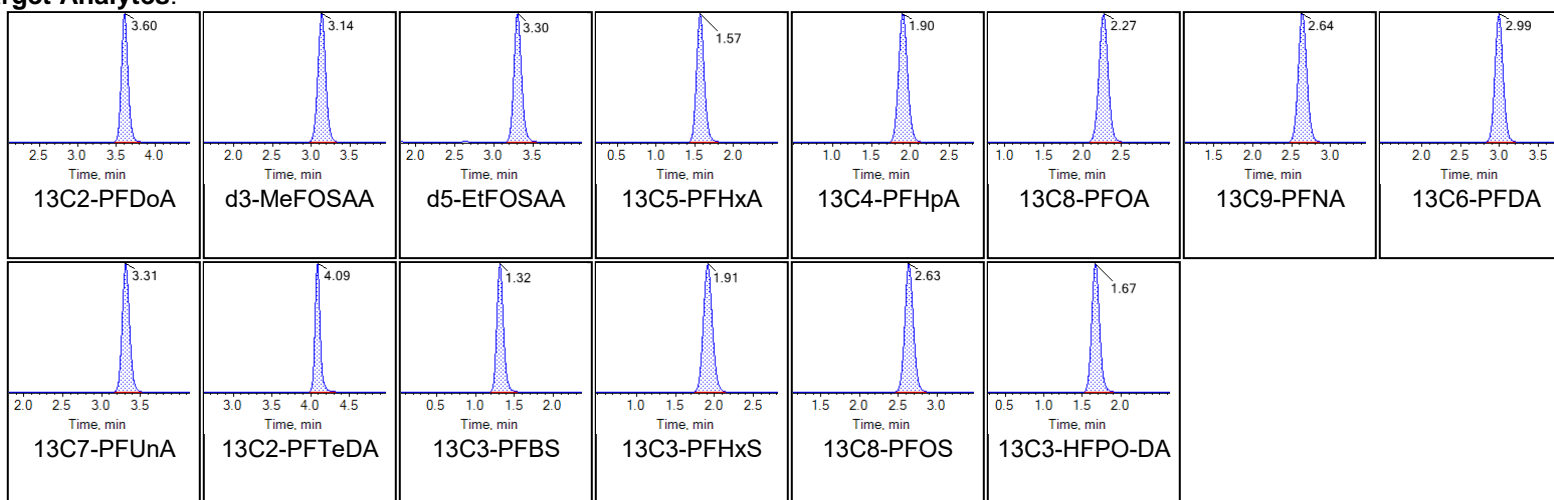
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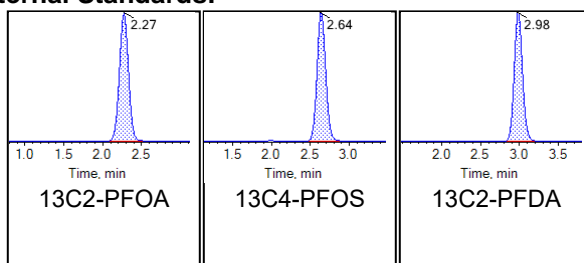
Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:17:09 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





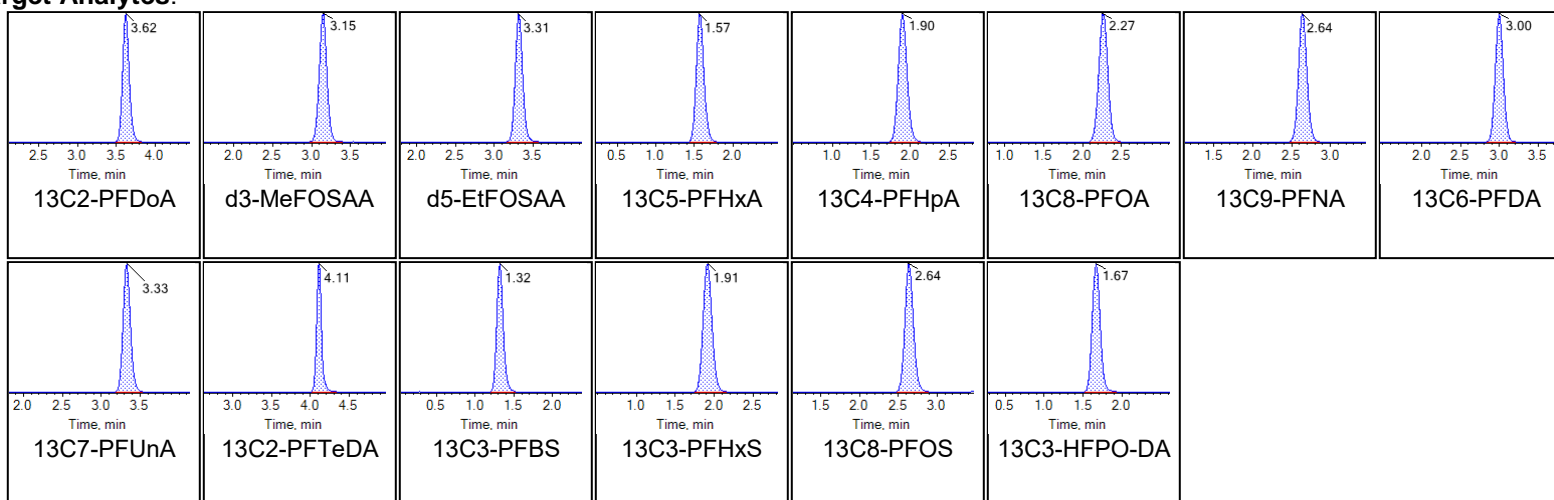
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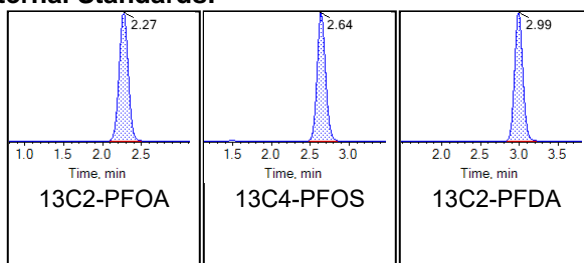
Sample Name	DA891PB-FS(0)	Injection Vial	1
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:38:04 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





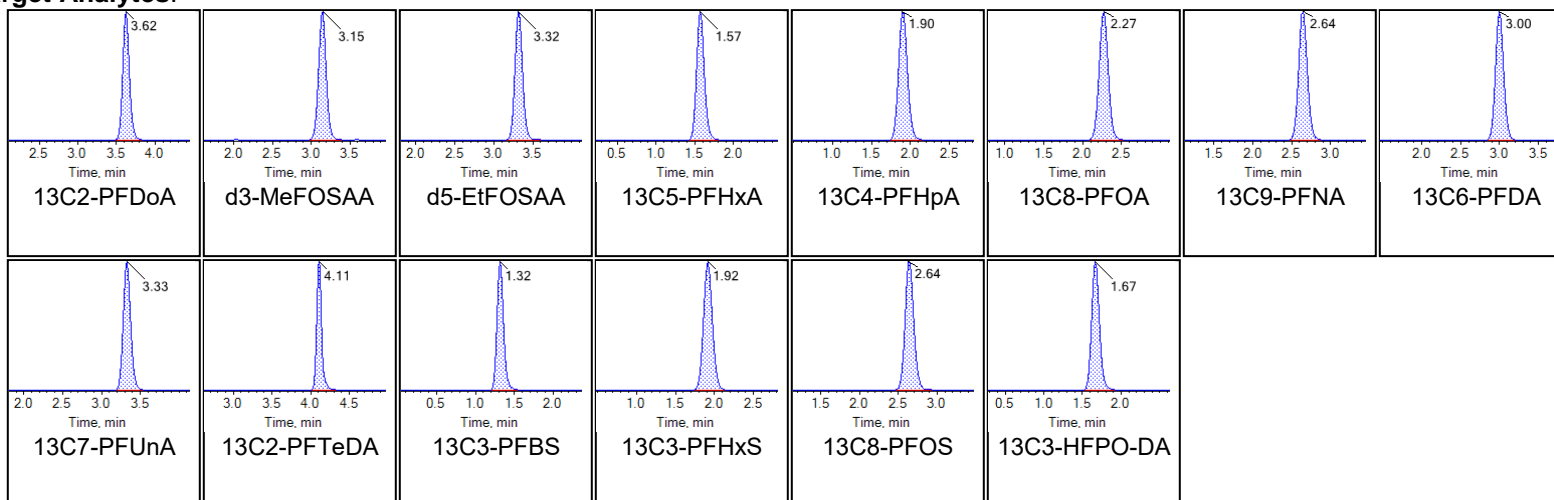
Chromatogram Report

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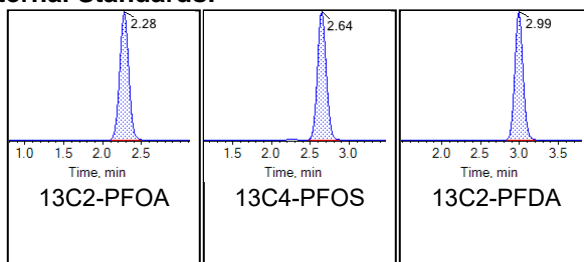
Sample Name	DA892LCS-FS(0)	Injection Vial	2
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:48:33 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





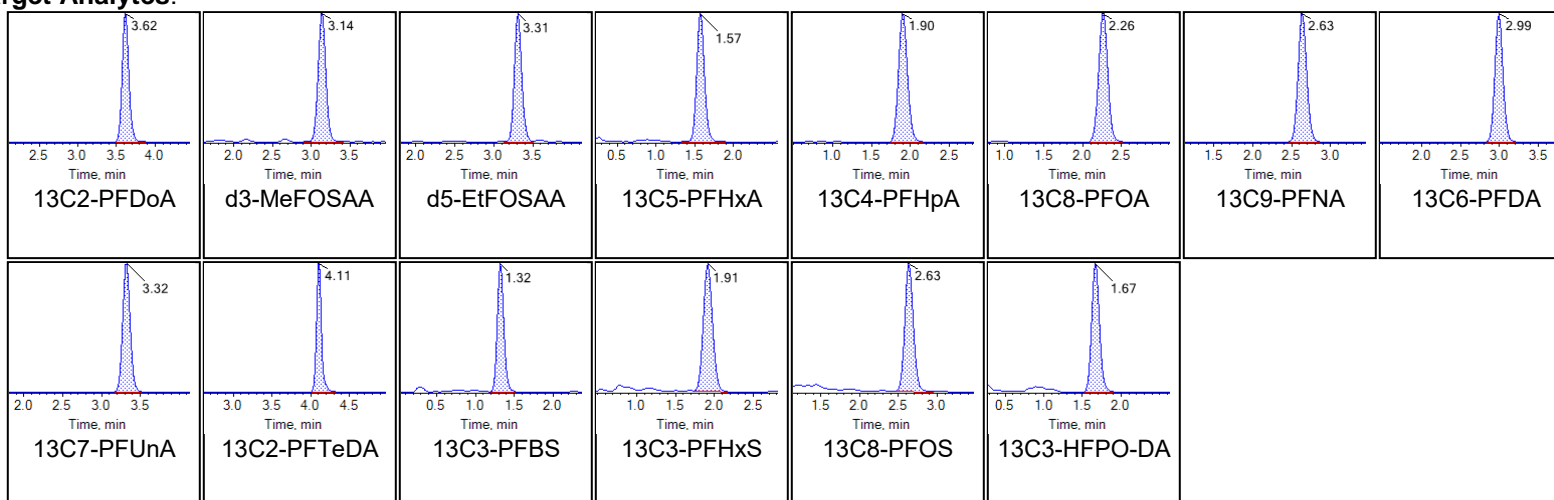
Chromatogram Report

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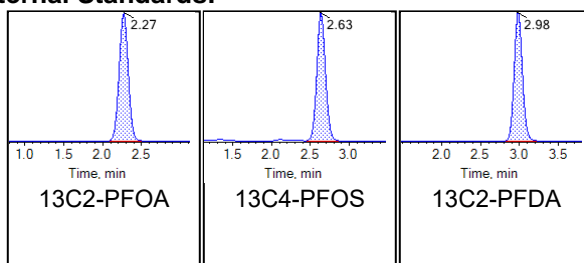
Sample Name	G1651-FS(0)	Injection Vial	3
Sample ID	CBD-AOA-SW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 10:59:02 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





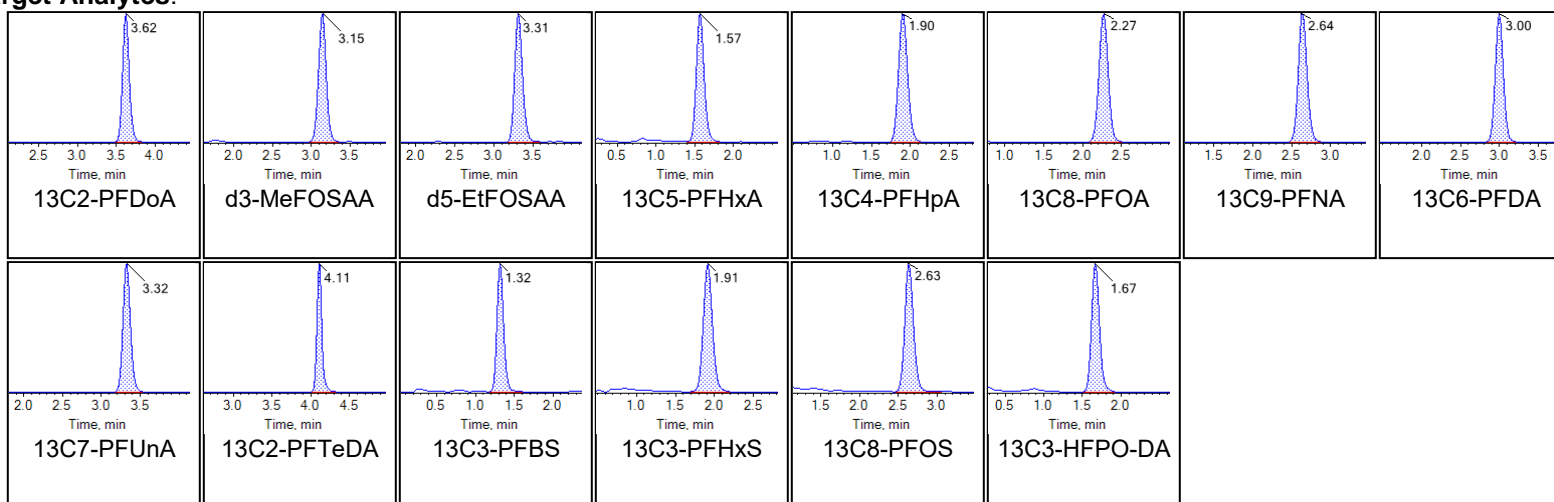
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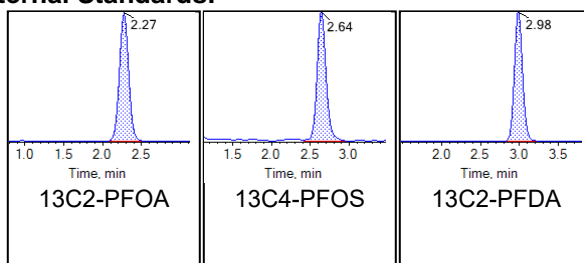
Sample Name	G1652-FS(0)	Injection Vial	4
Sample ID	CBD-AOA-SW02P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:09:30 PM	Data File	AE_11022020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





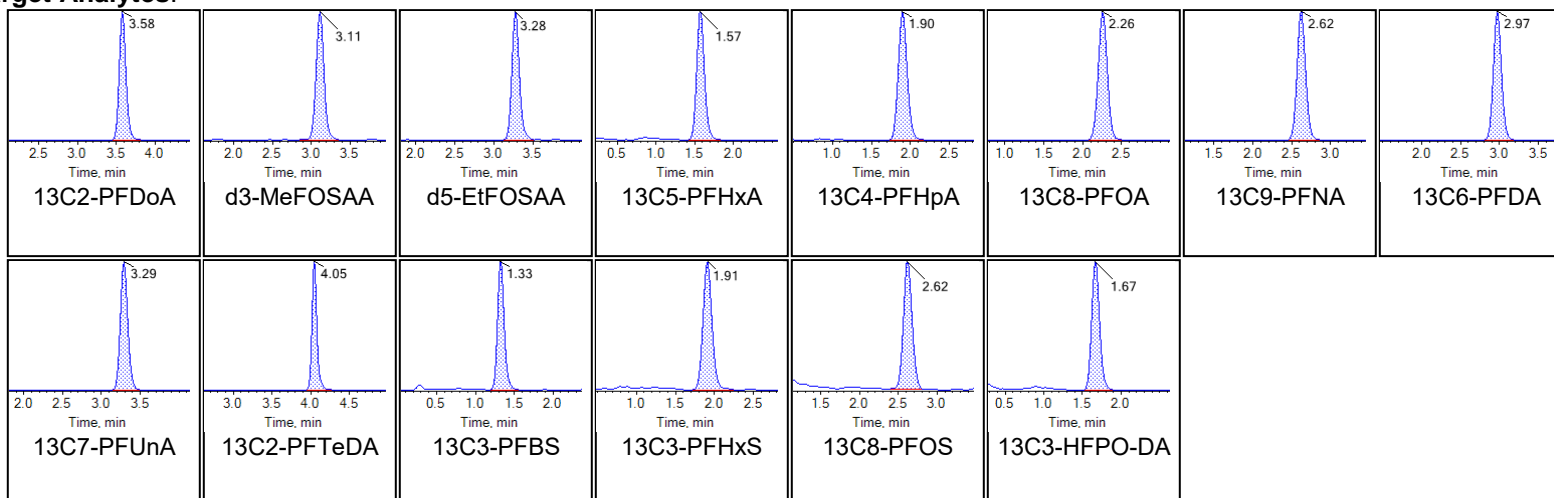
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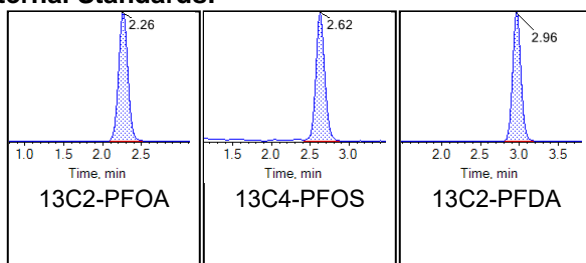
Sample Name	G1654-FS(0)	Injection Vial	5
Sample ID	CBD-AOA-SW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:19:58 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





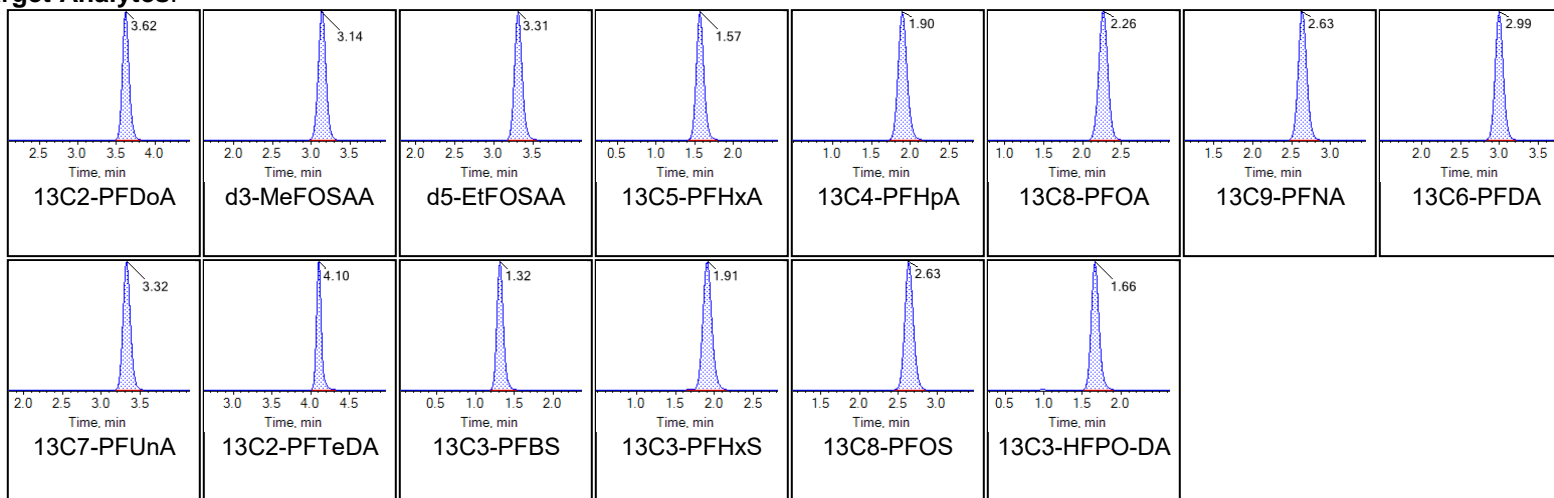
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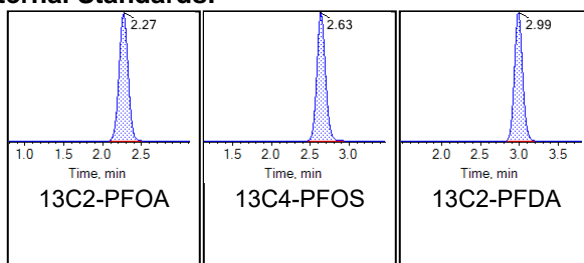
Sample Name	G1655-FS(0)	Injection Vial	6
Sample ID	CBD-AOA-FB03-101320	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:30:25 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





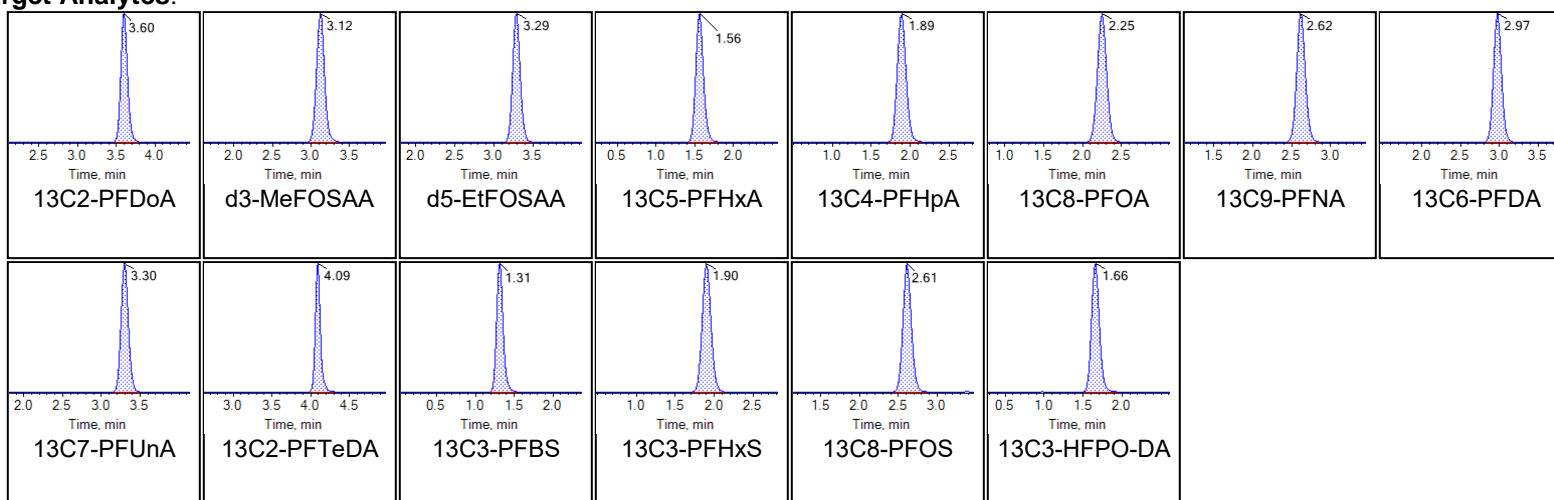
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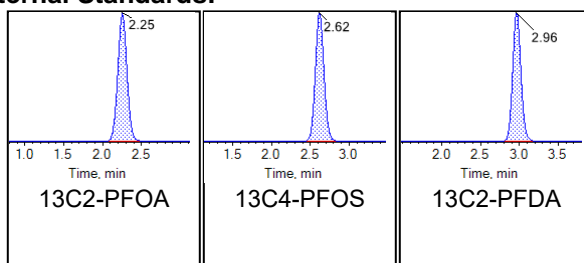
Sample Name	G1656-FS(0)	Injection Vial	7
Sample ID	CBD-AOA-EB01-101320-SW	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/2/2020 11:40:54 PM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





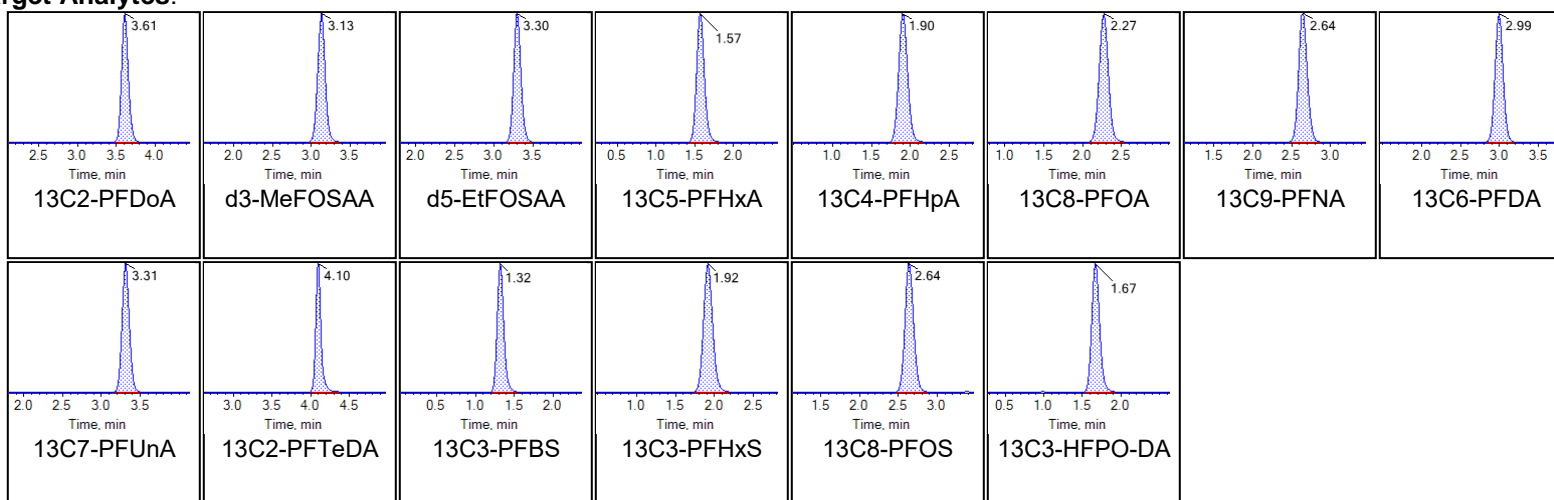
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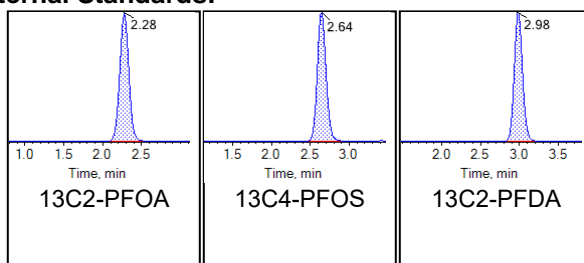
Sample Name	G1657-FS(0)	Injection Vial	8
Sample ID	CBD-AOA-EB01-101320-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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Chromatograms

Target Analytes:



Internal Standards:





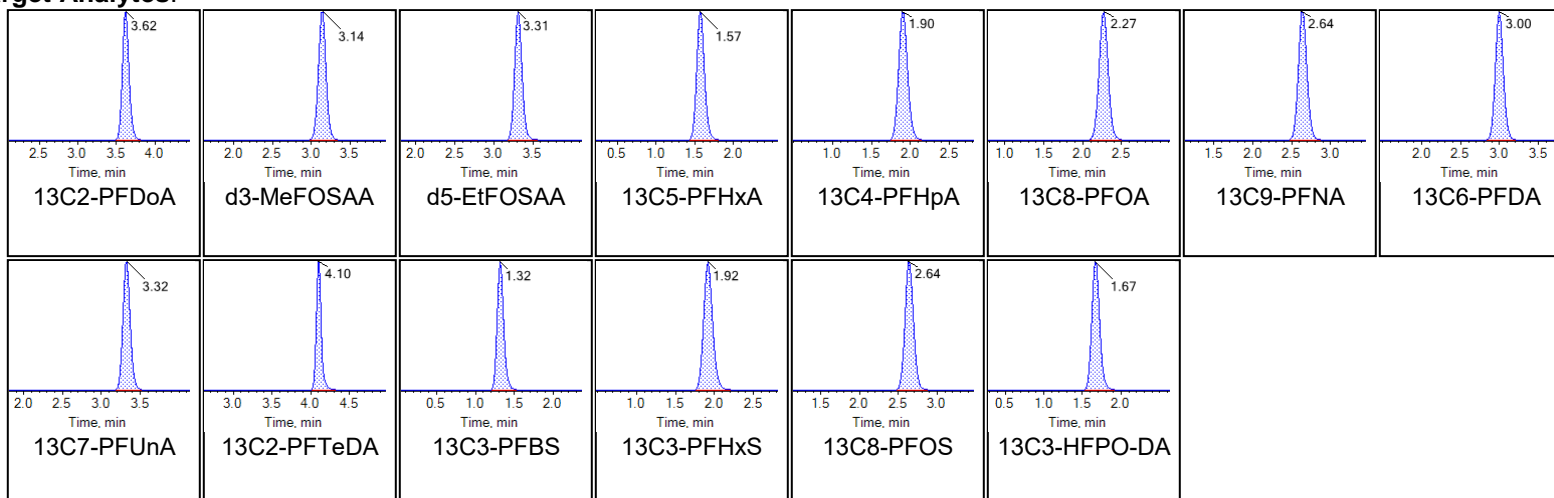
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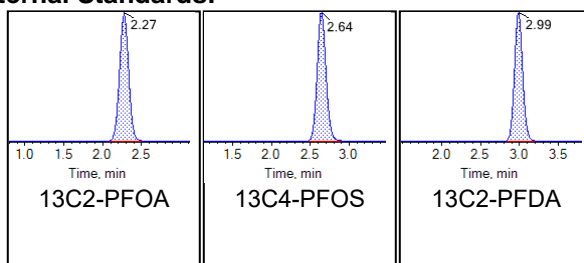
Sample Name	LD76 CCV	Injection Vial	10
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:12:18 AM	Data File	AE_11022020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





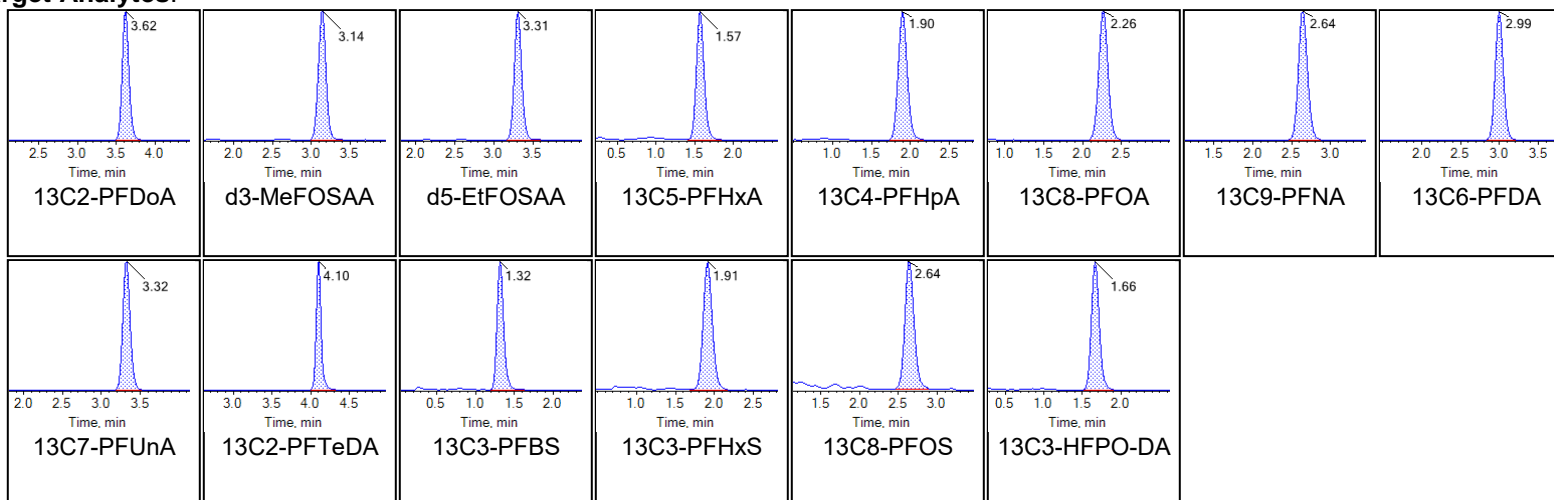
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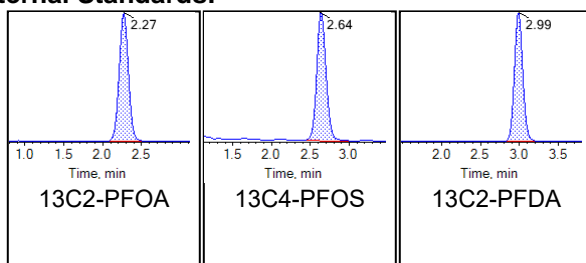
Sample Name	G1644-FS(0)	Injection Vial	11
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:22:46 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





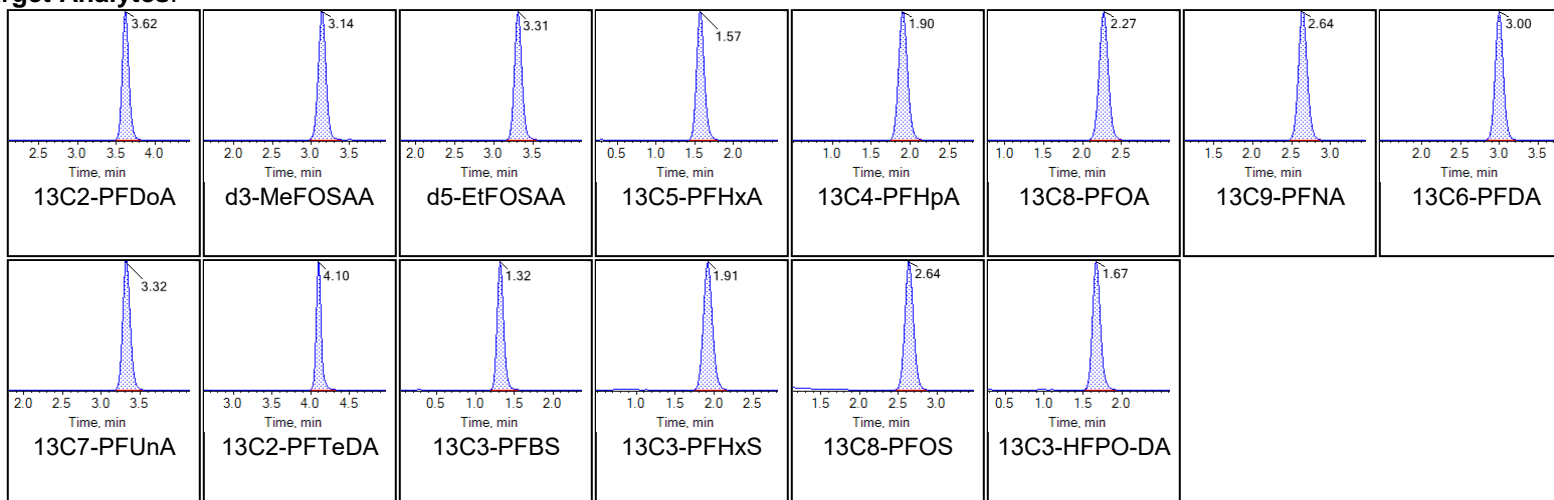
Chromatogram Report

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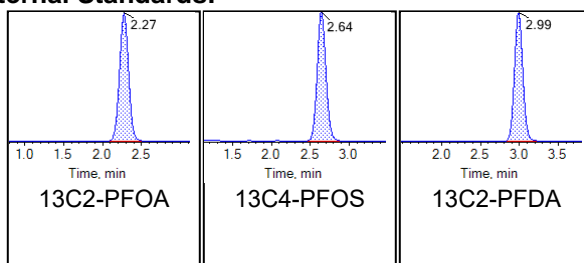
Sample Name	G1644-FS-D(3)	Injection Vial	12
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:33:14 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





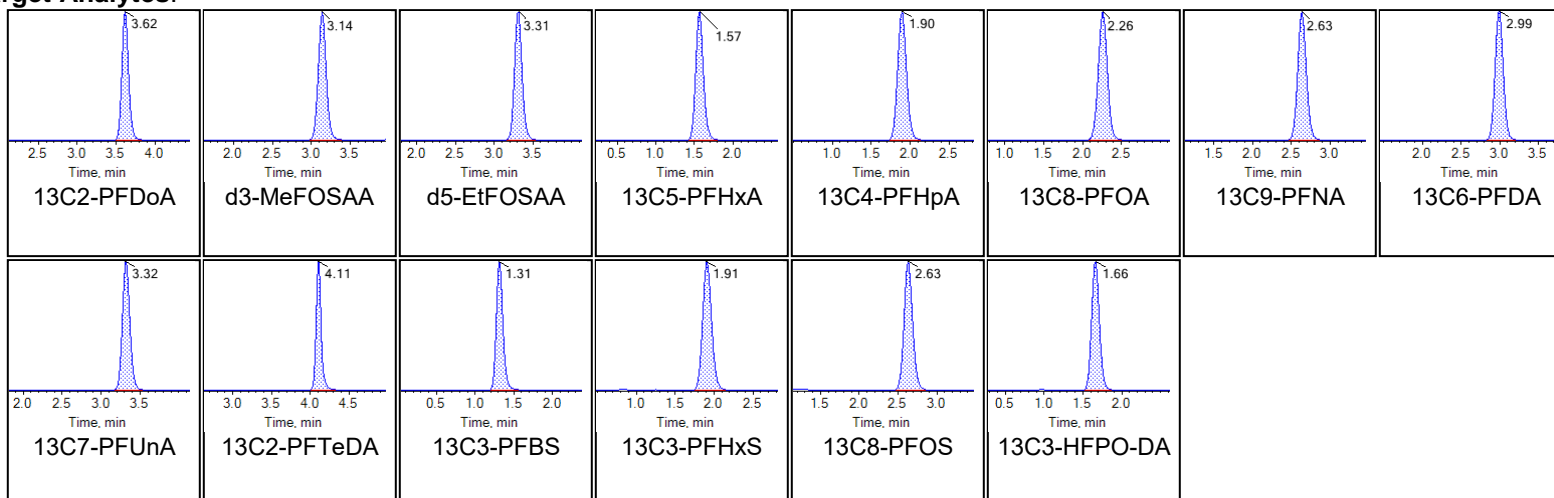
Chromatogram Report

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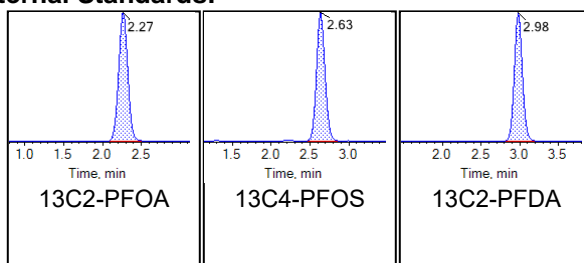
Sample Name	G1644-FS-D(5)	Injection Vial	13
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:43:42 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





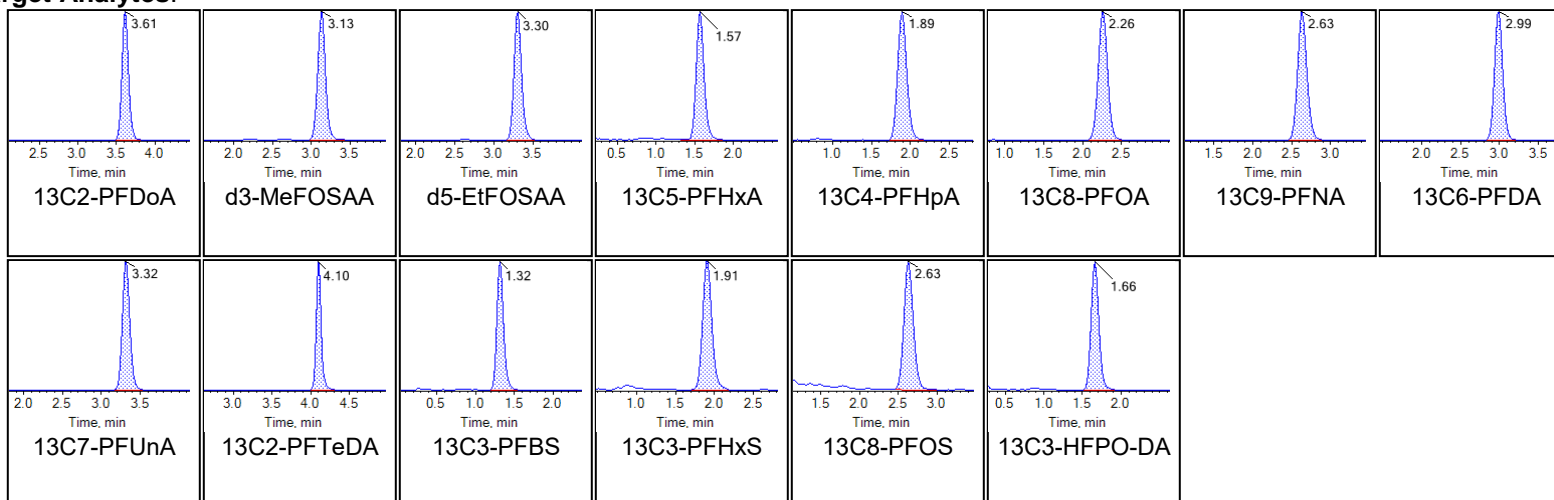
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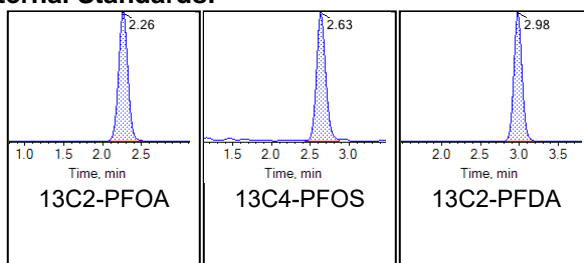
Sample Name	G1645-FS(0)	Injection Vial	14
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 12:54:10 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





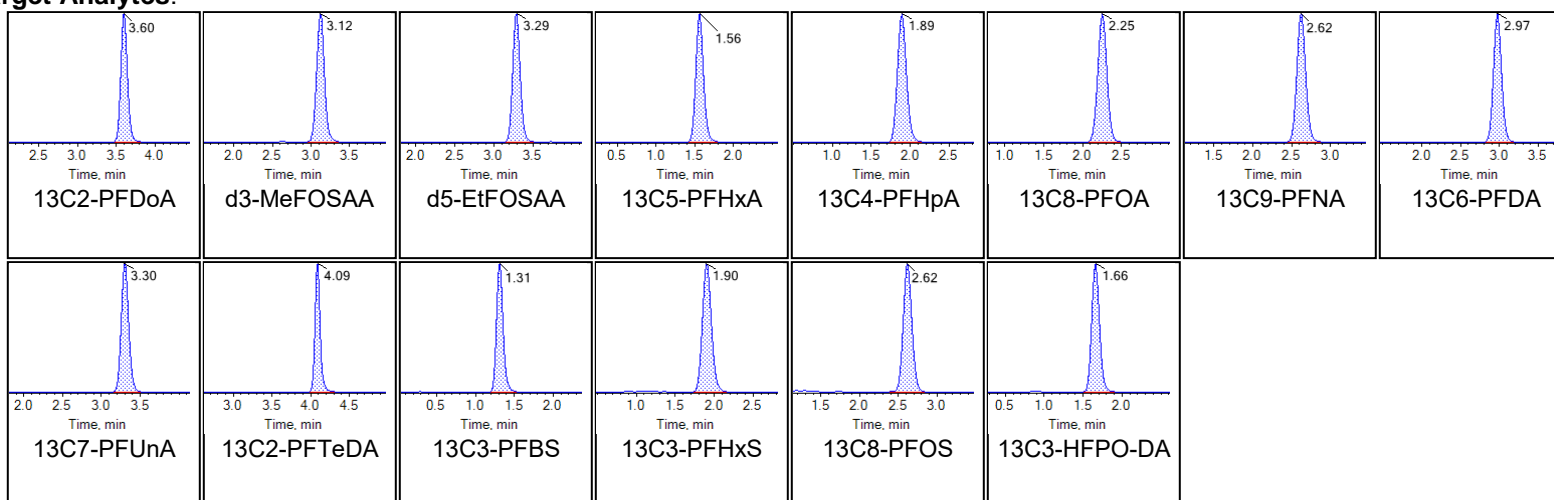
Chromatogram Report

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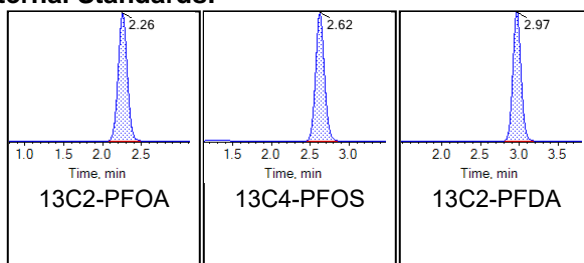
Sample Name	G1645-FS-D(3)	Injection Vial	15
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:04:40 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





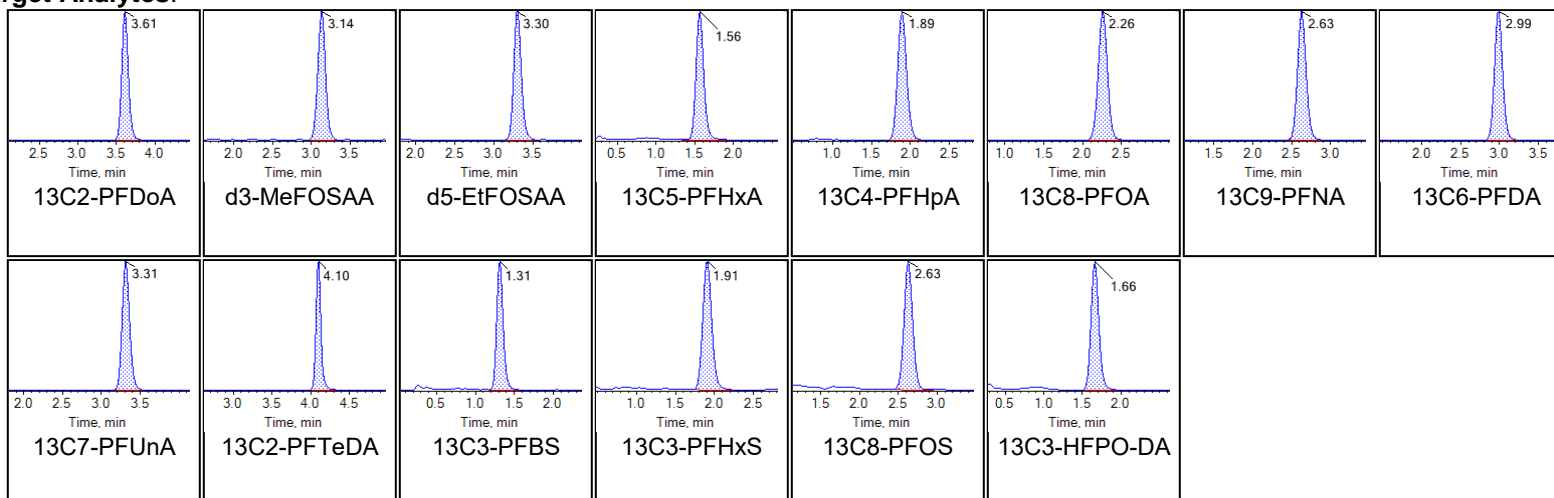
Chromatogram Report

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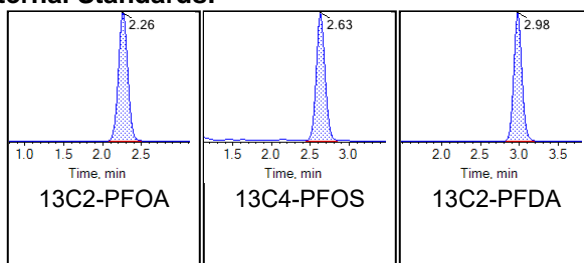
Sample Name	G1646-FS(0)	Injection Vial	17
Sample ID	CBD-AOA-SW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:25:37 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





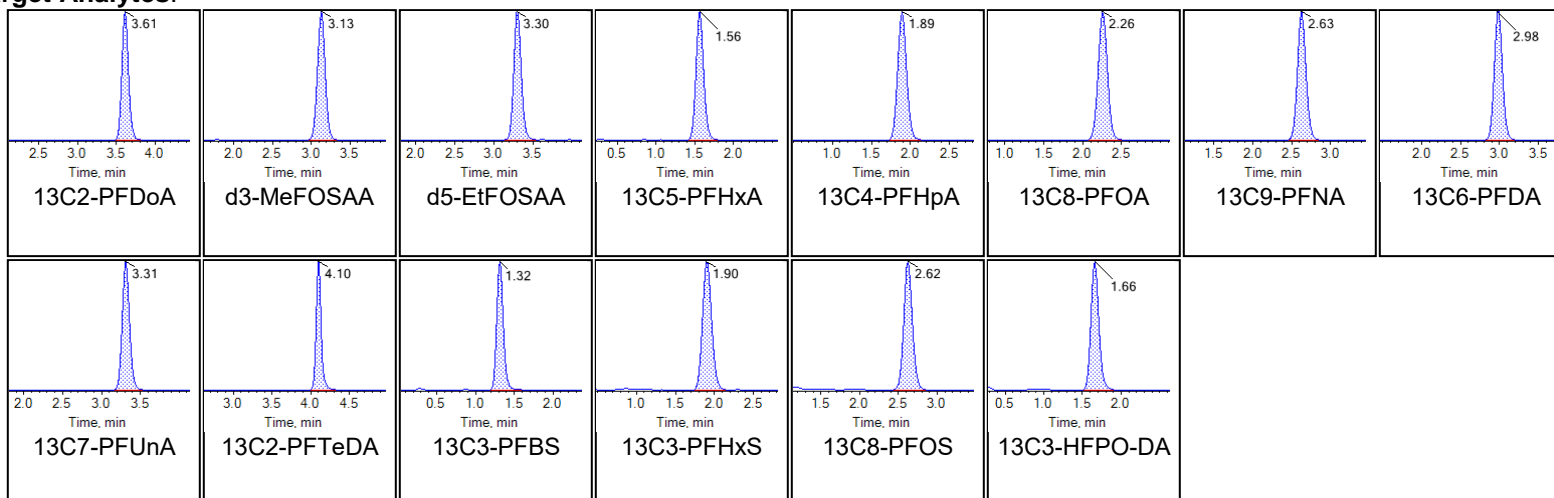
Chromatogram Report

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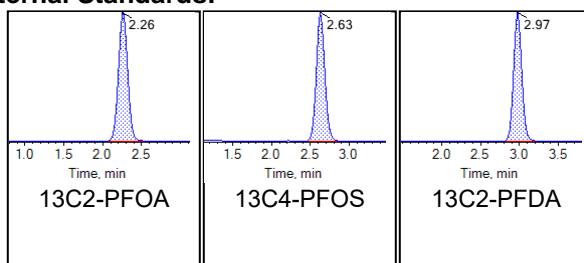
Sample Name	G1646-FS-D(3)	Injection Vial	18
Sample ID	CBD-AOA-SW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:36:05 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





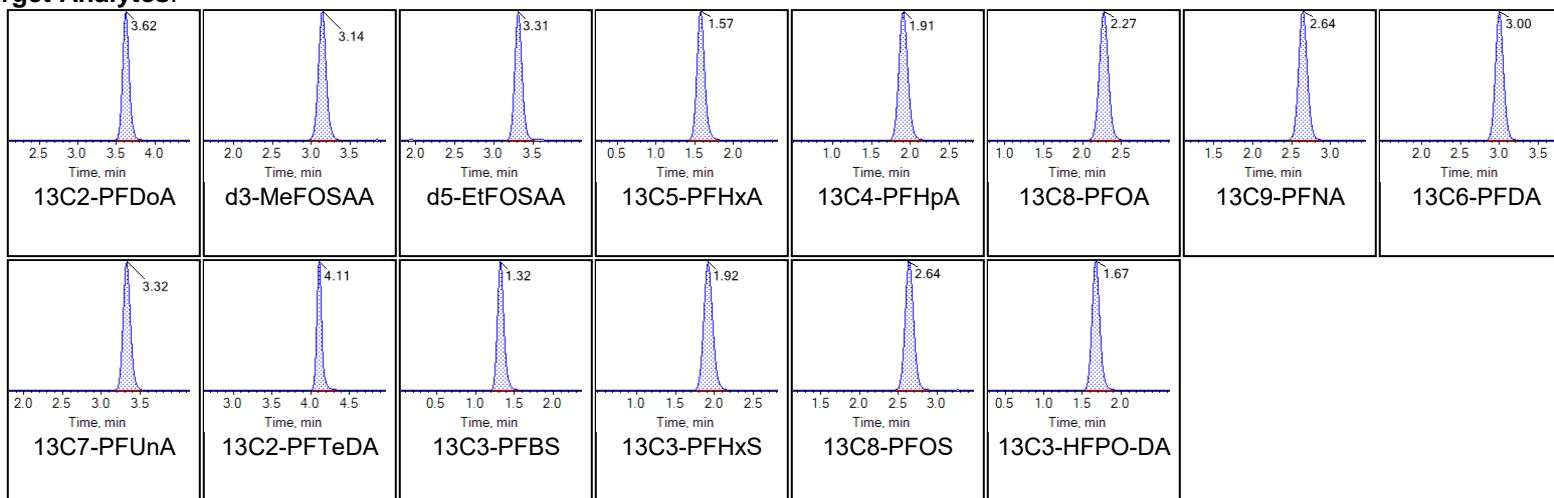
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 4:51:57 PM

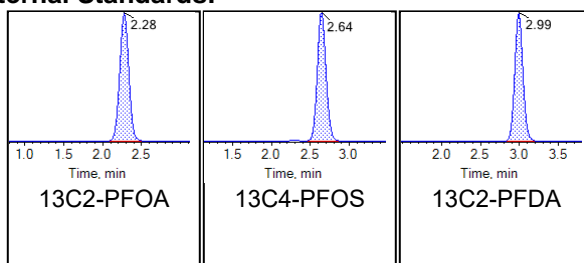
Sample Name	LD77 CCV	Injection Vial	20
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 1:57:01 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





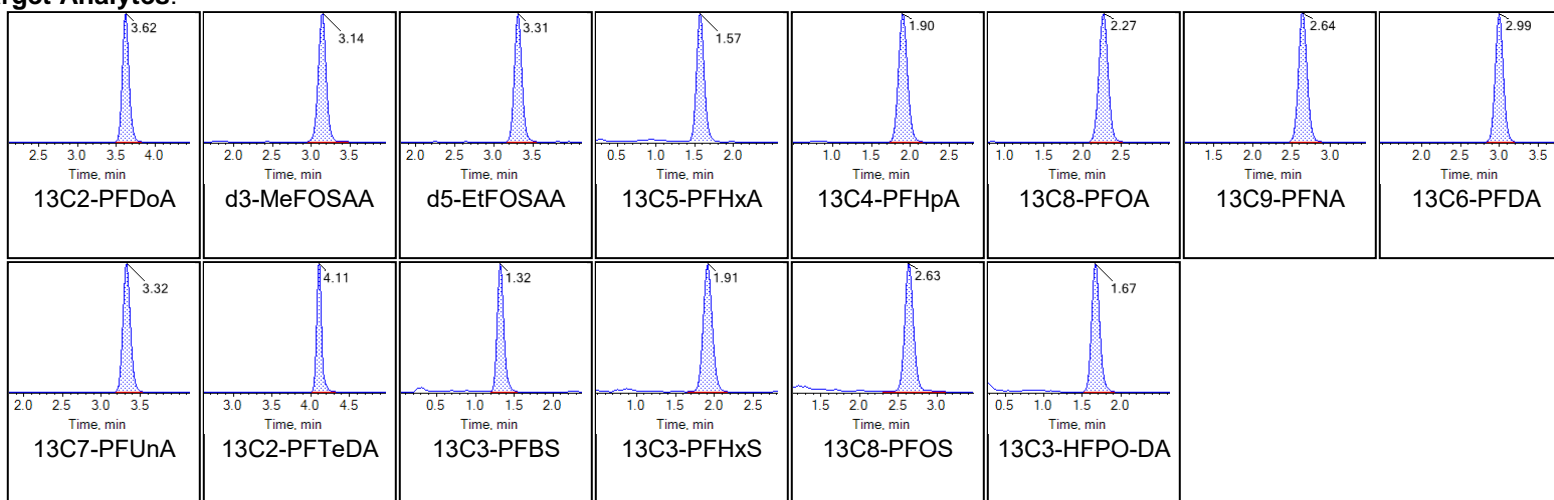
Chromatogram Report

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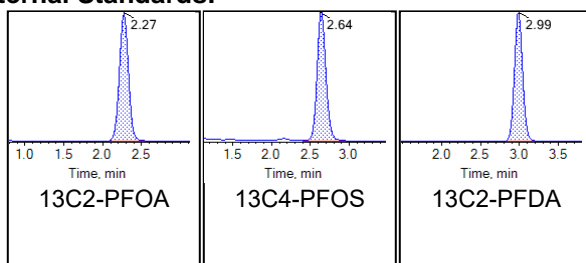
Sample Name	G1647-FS(0)	Injection Vial	21
Sample ID	CBD-AOA-SW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:07:29 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





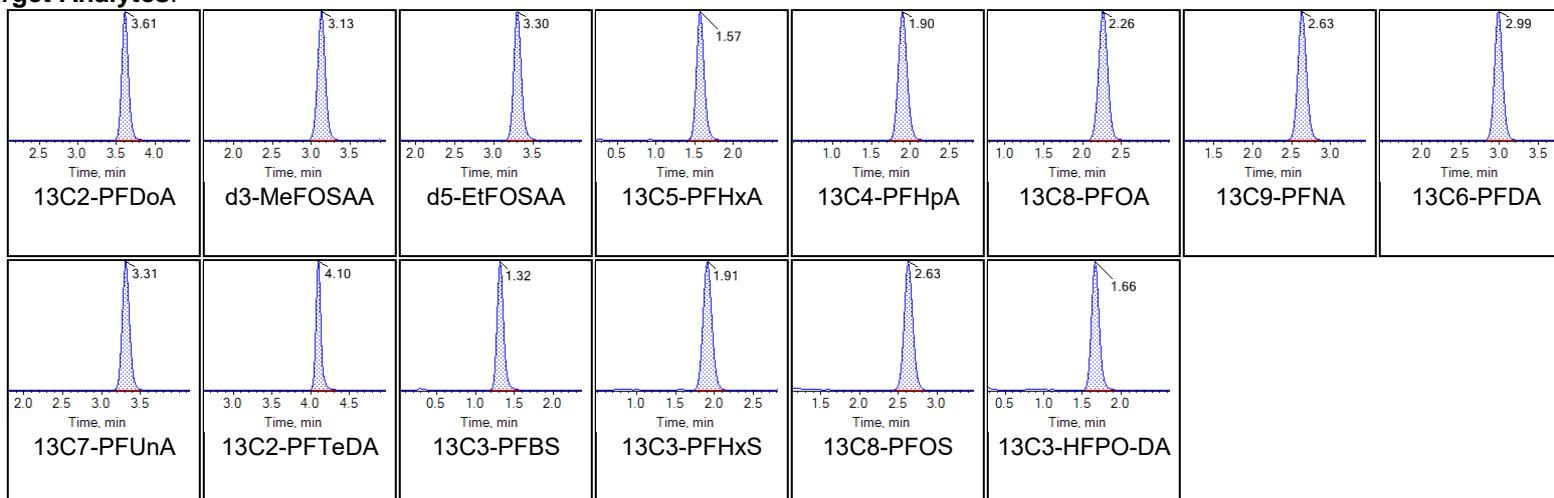
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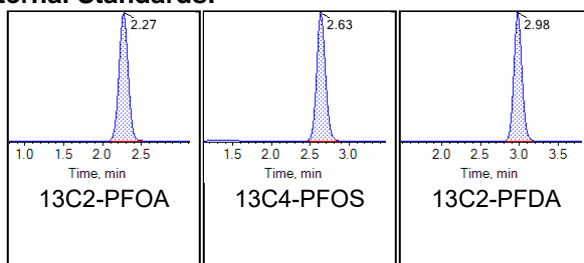
Sample Name	G1647-FS-D(3)	Injection Vial	22
Sample ID	CBD-AOA-SW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:17:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





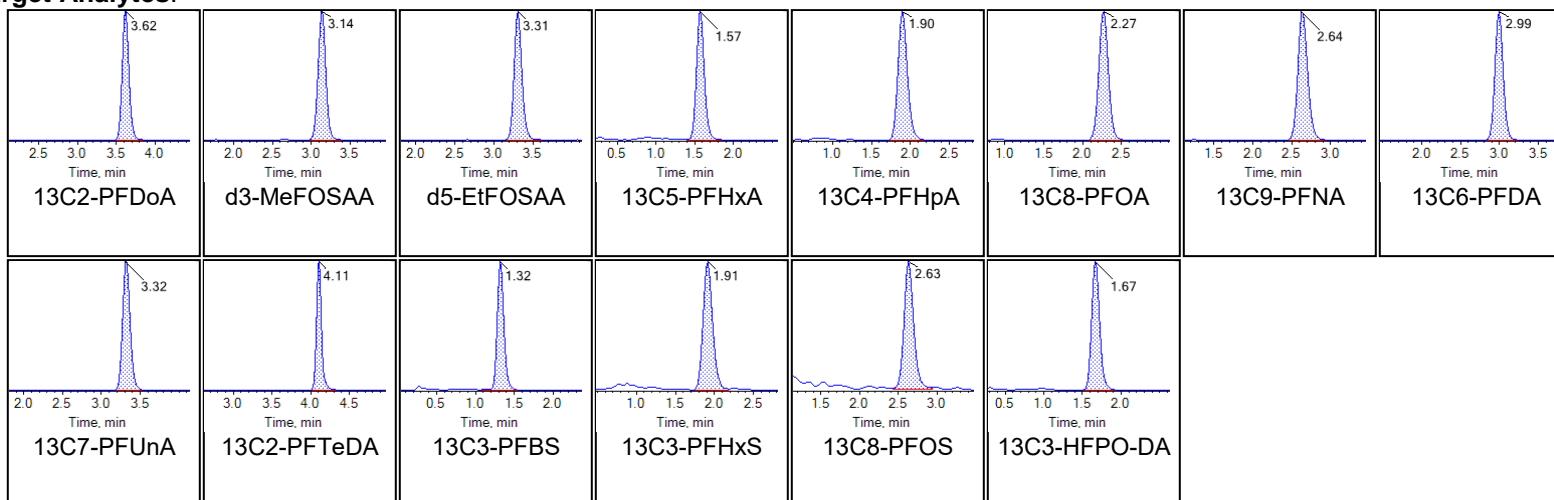
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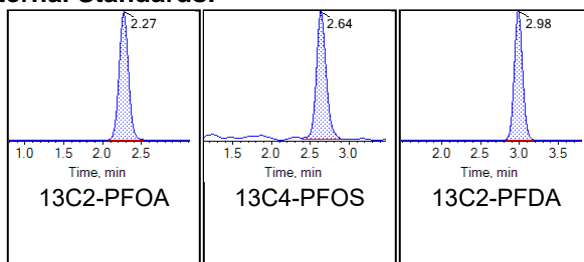
Sample Name	G1658-FS(0)	Injection Vial	23
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:28:28 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





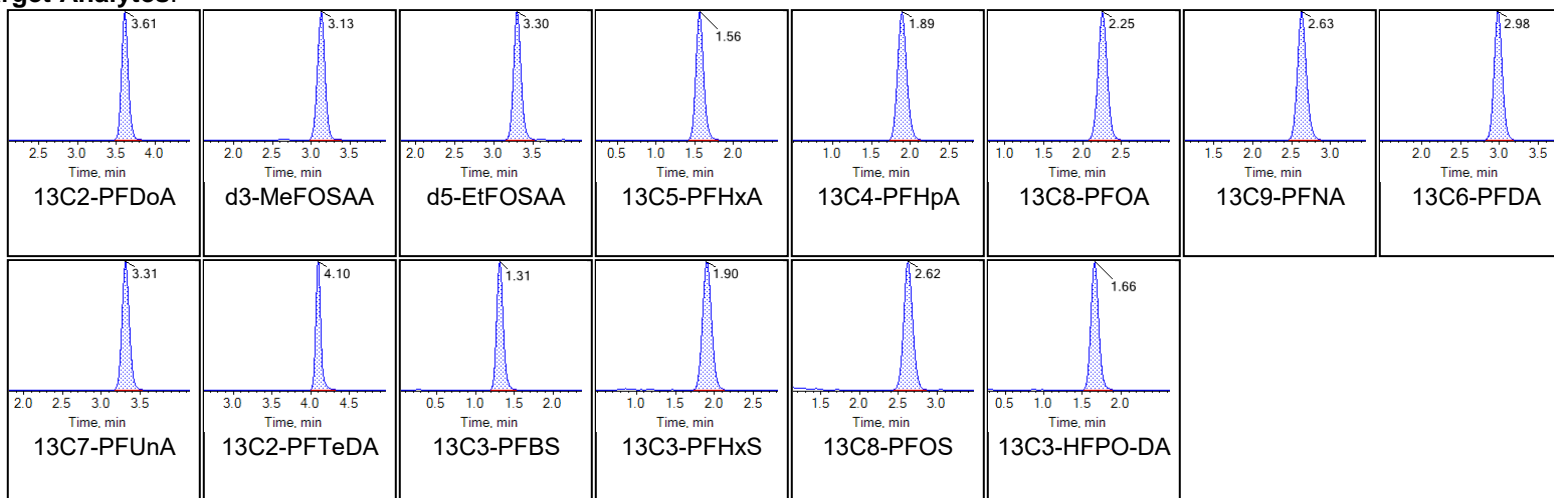
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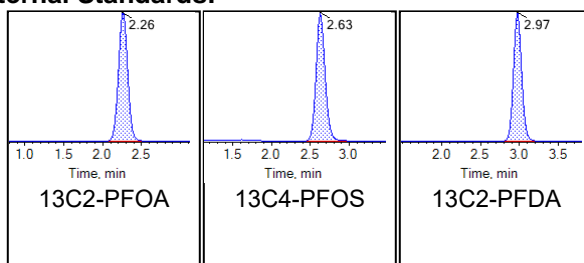
Sample Name	G1658-FS-D(3)	Injection Vial	24
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:38:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





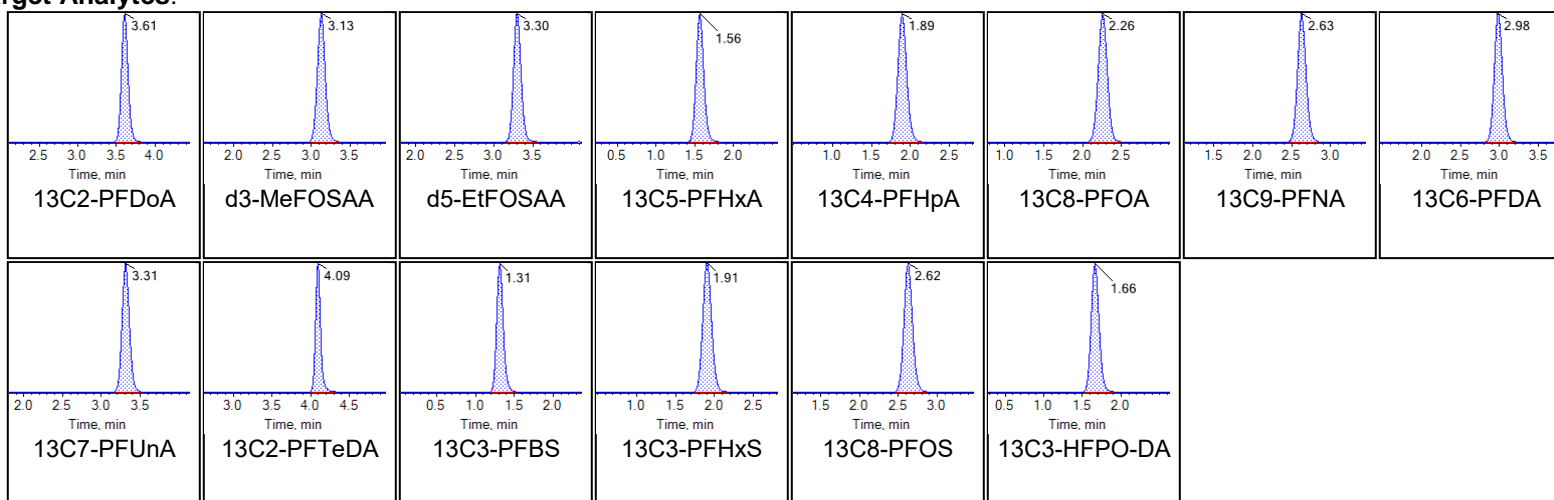
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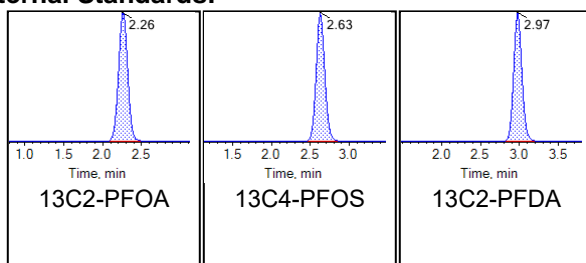
Sample Name	G1658-FS-D(7)	Injection Vial	26
Sample ID	CBD-AOA-SW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 2:59:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





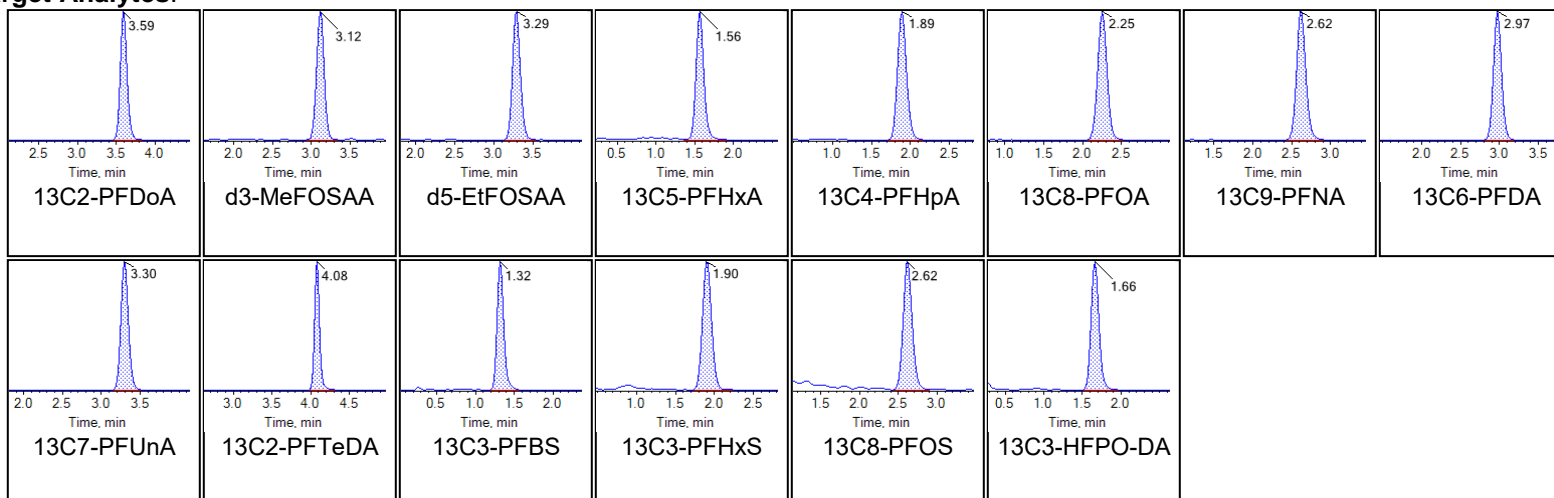
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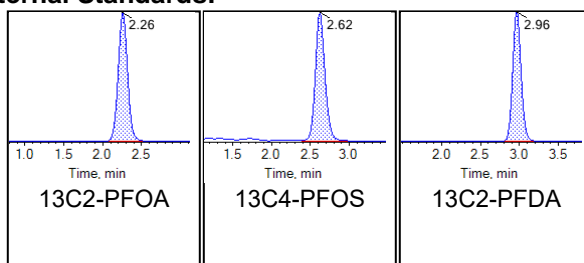
Sample Name	G1668-FS(0)	Injection Vial	27
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:10:24 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





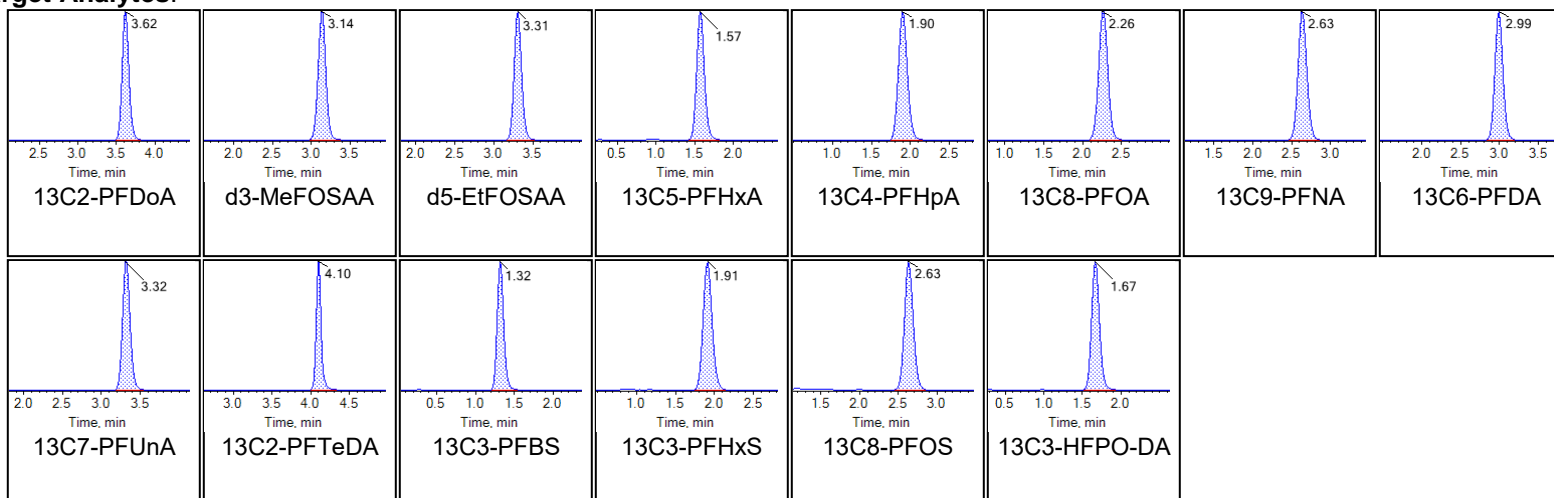
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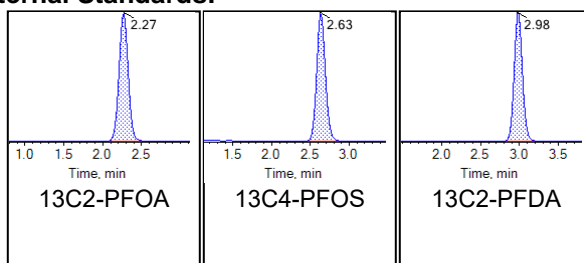
Sample Name	G1668-FS-D(3)	Injection Vial	28
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:20:52 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





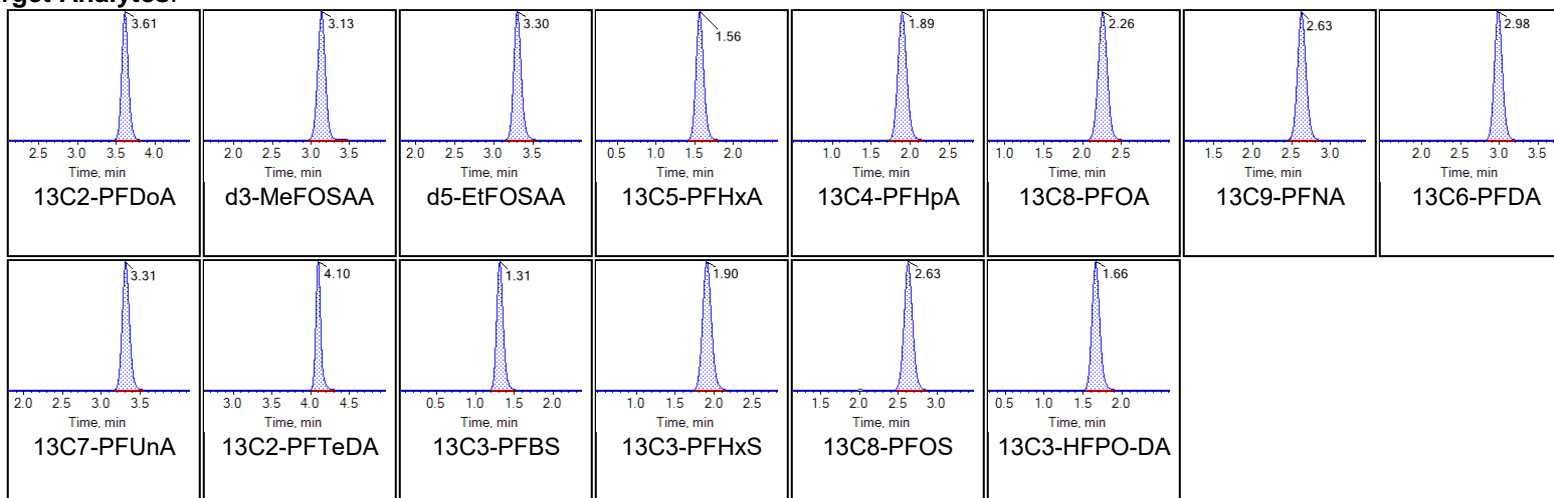
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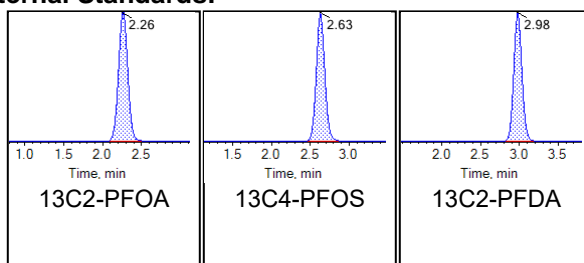
Sample Name	LD76 CCV	Injection Vial	31
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 3:52:16 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





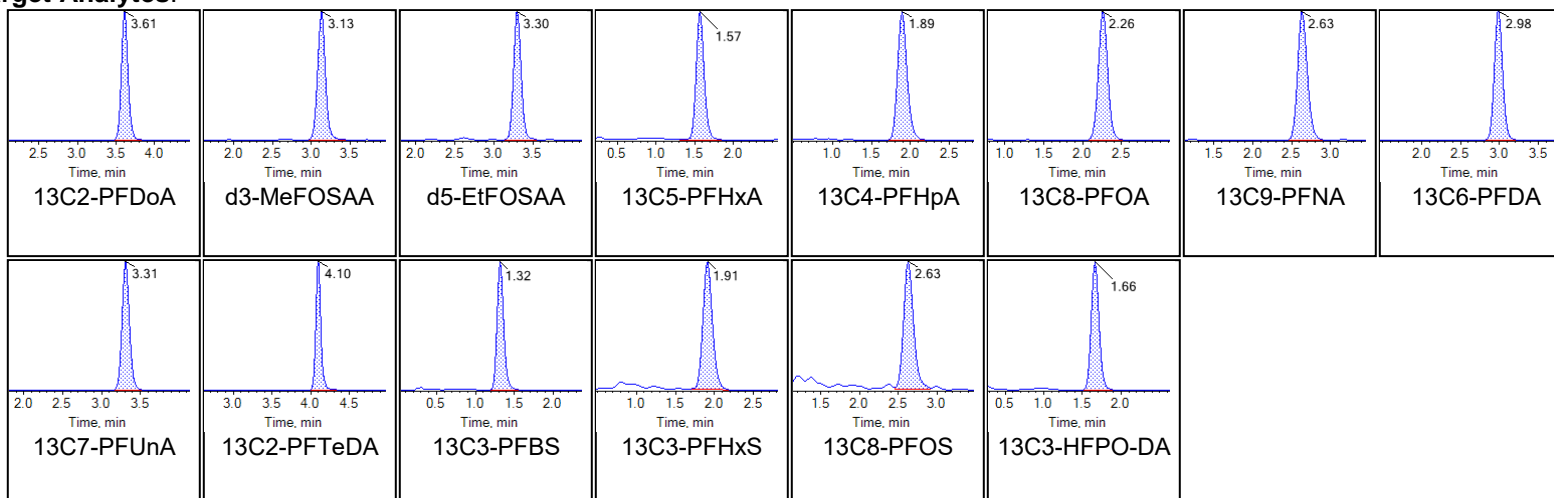
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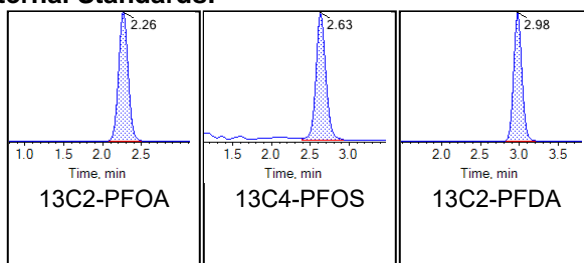
Sample Name	G1661-FS(0)	Injection Vial	32
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:02:44 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





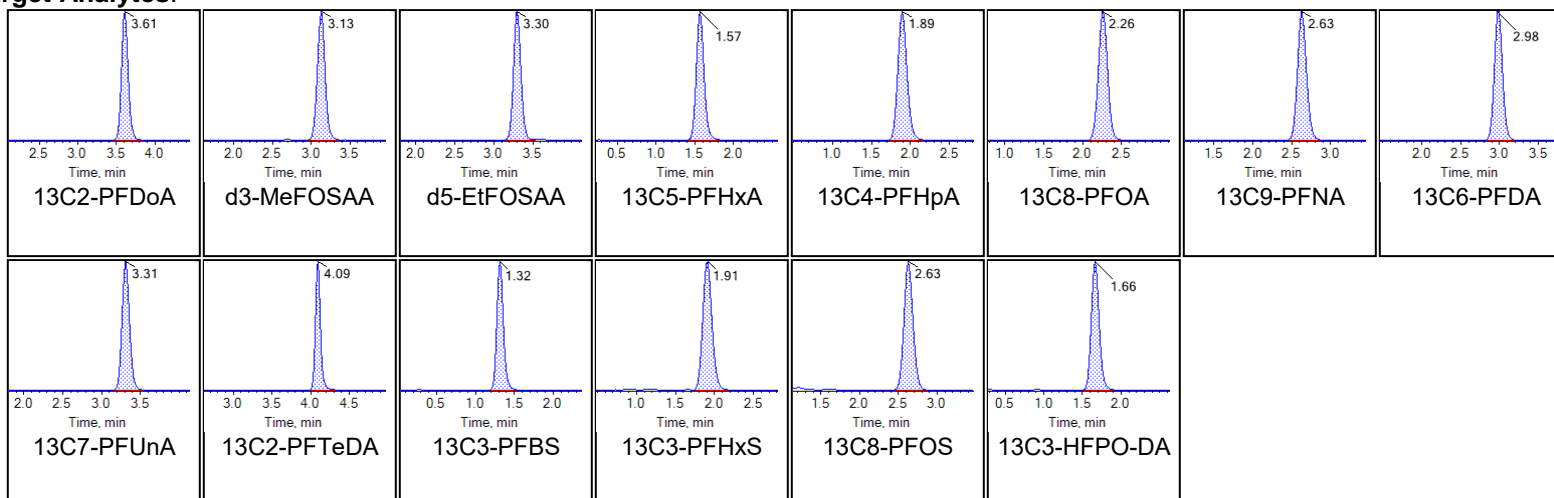
Chromatogram Report

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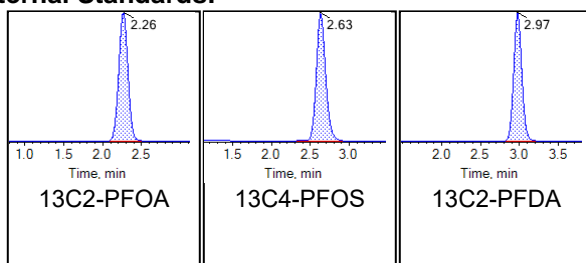
Sample Name	G1661-FS-D(3)	Injection Vial	33
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:13:11 AM	Data File	AE_11022020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





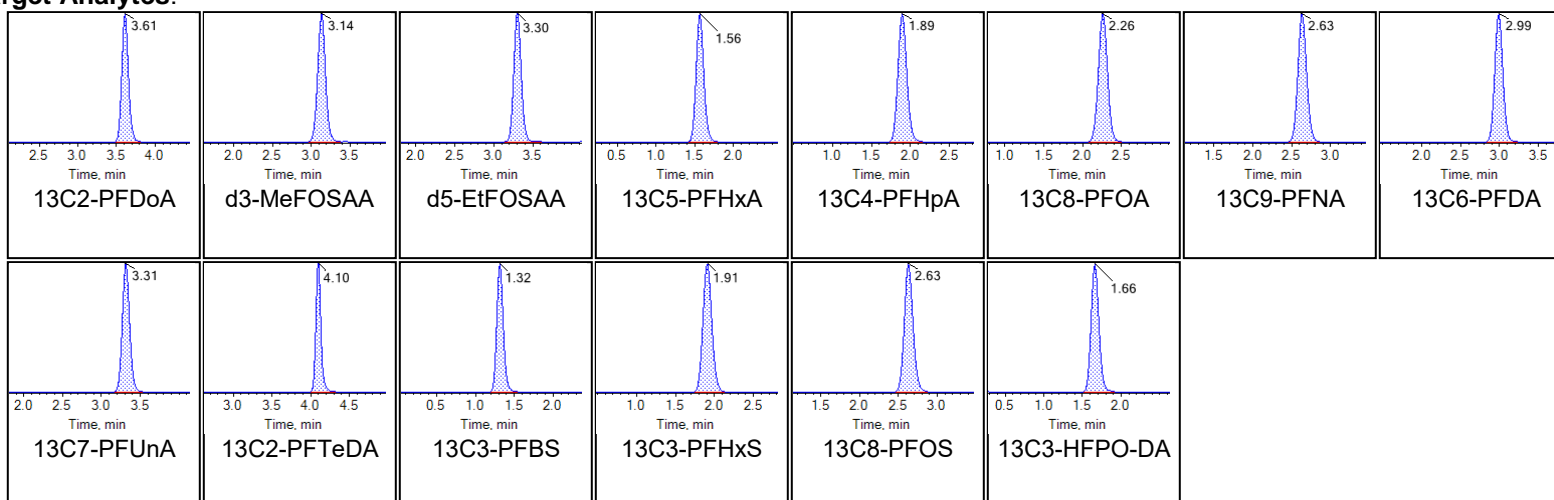
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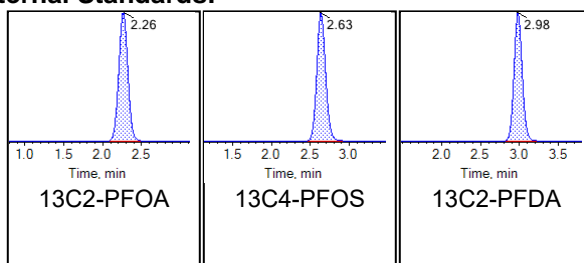
Sample Name	G1661-FS-D(5)	Injection Vial	34
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:23:40 AM	Data File	AE_11022020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





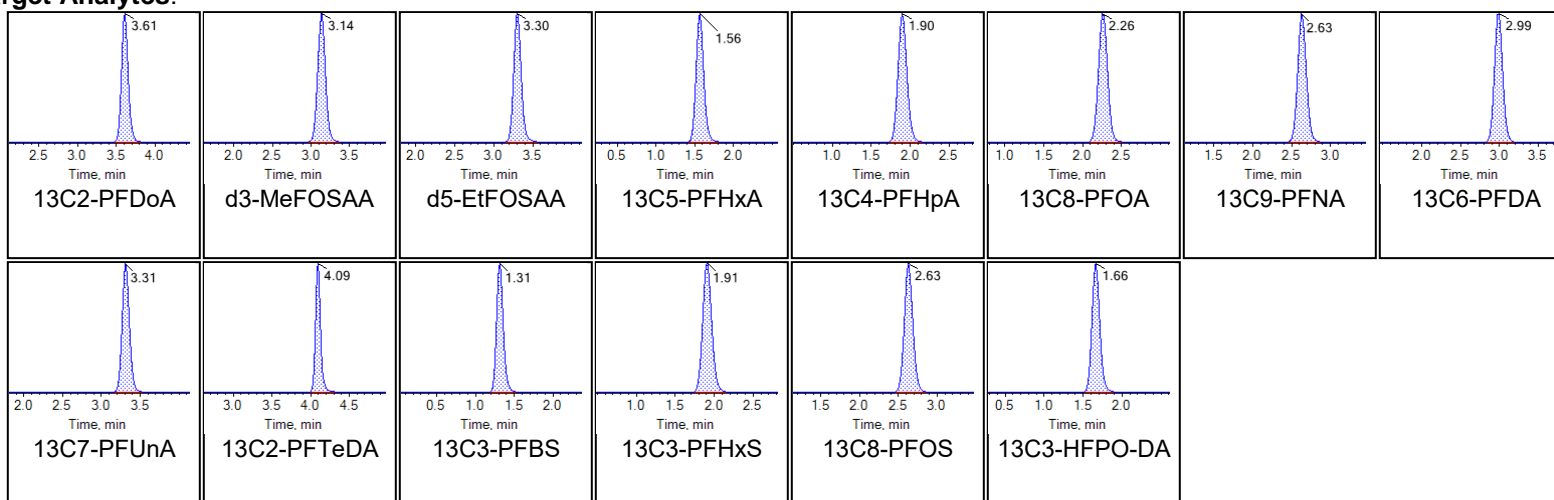
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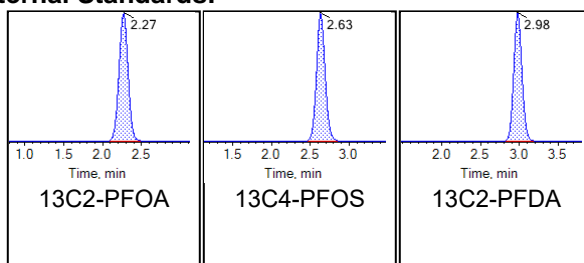
Sample Name	G1661-FS-D(7)	Injection Vial	35
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:34:08 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





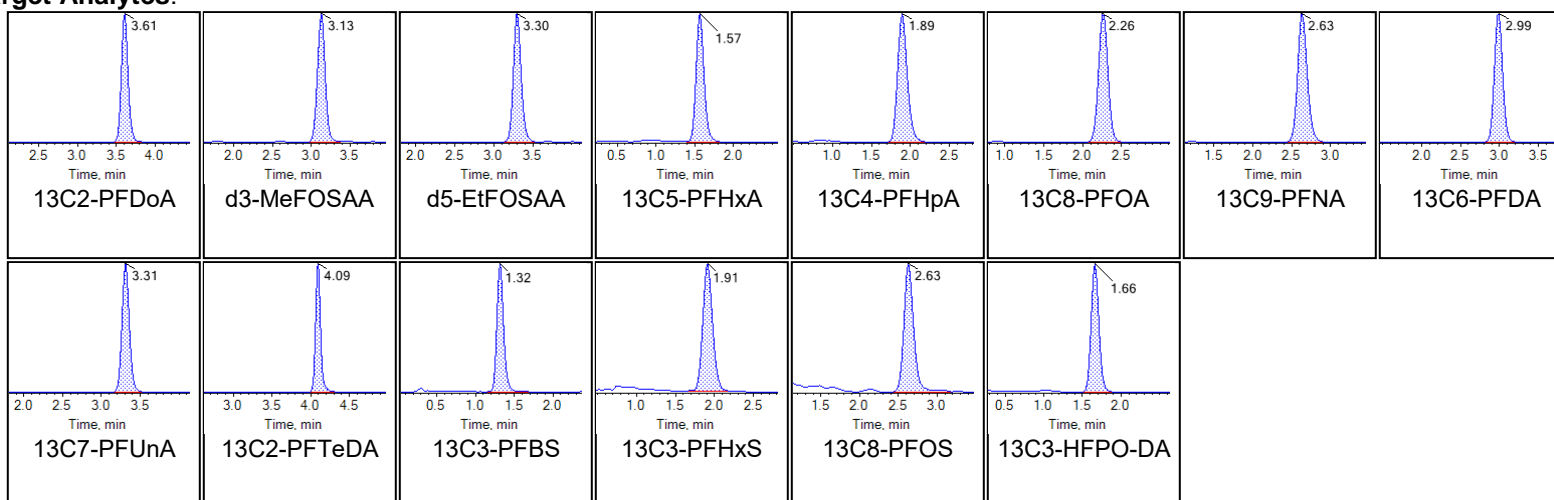
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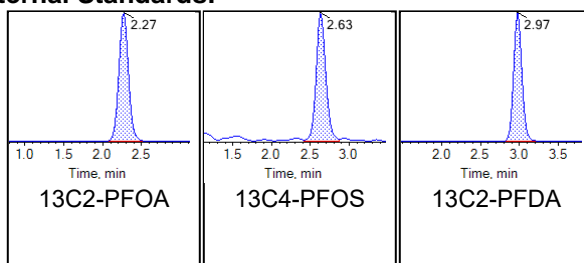
Sample Name	G1663-FS(0)	Injection Vial	36
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:44:38 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





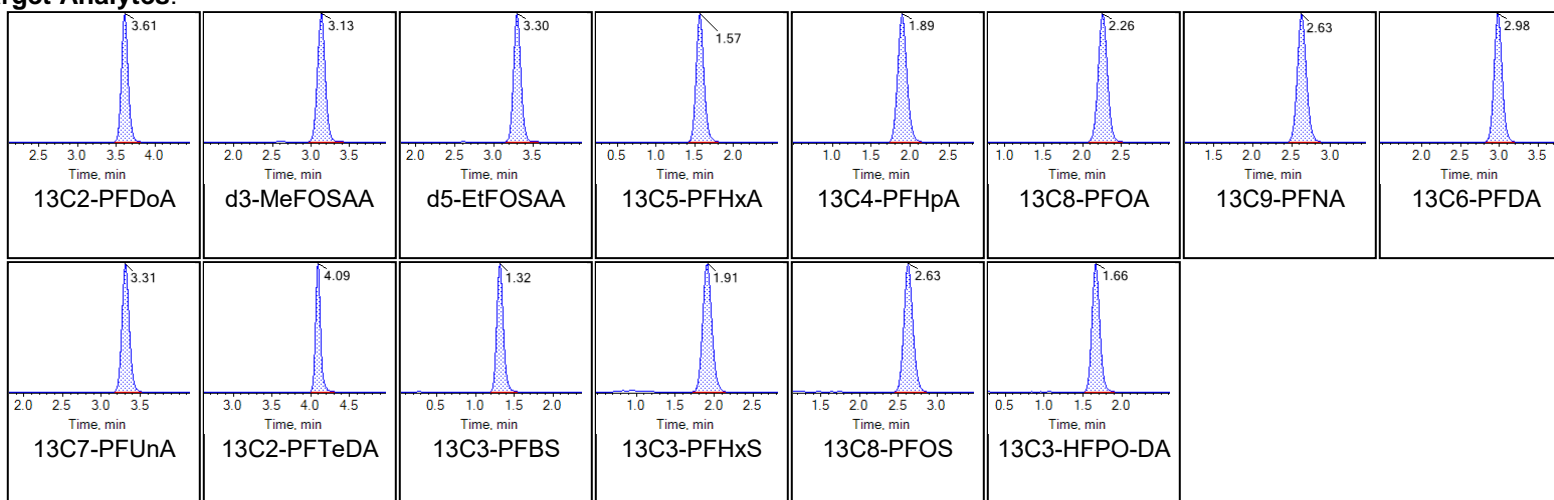
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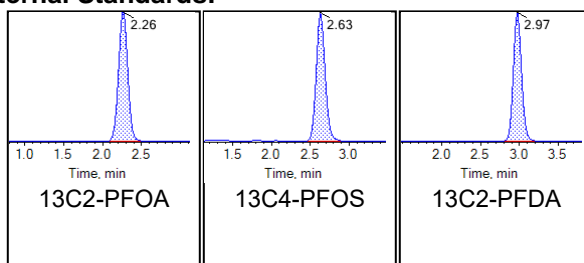
Sample Name	G1663-FS-D(3)	Injection Vial	37
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 4:55:08 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





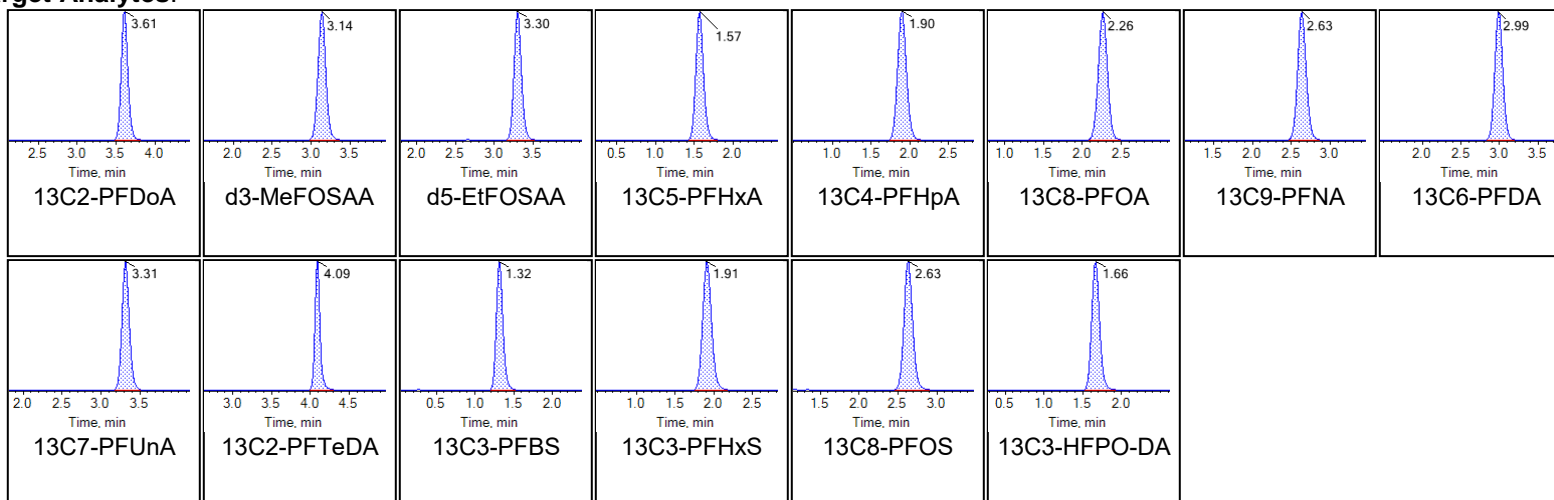
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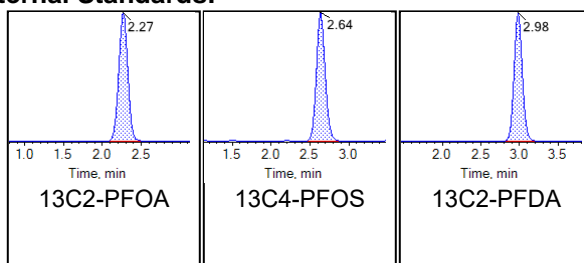
Sample Name	G1663-FS-D(5)	Injection Vial	38
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:05:38 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





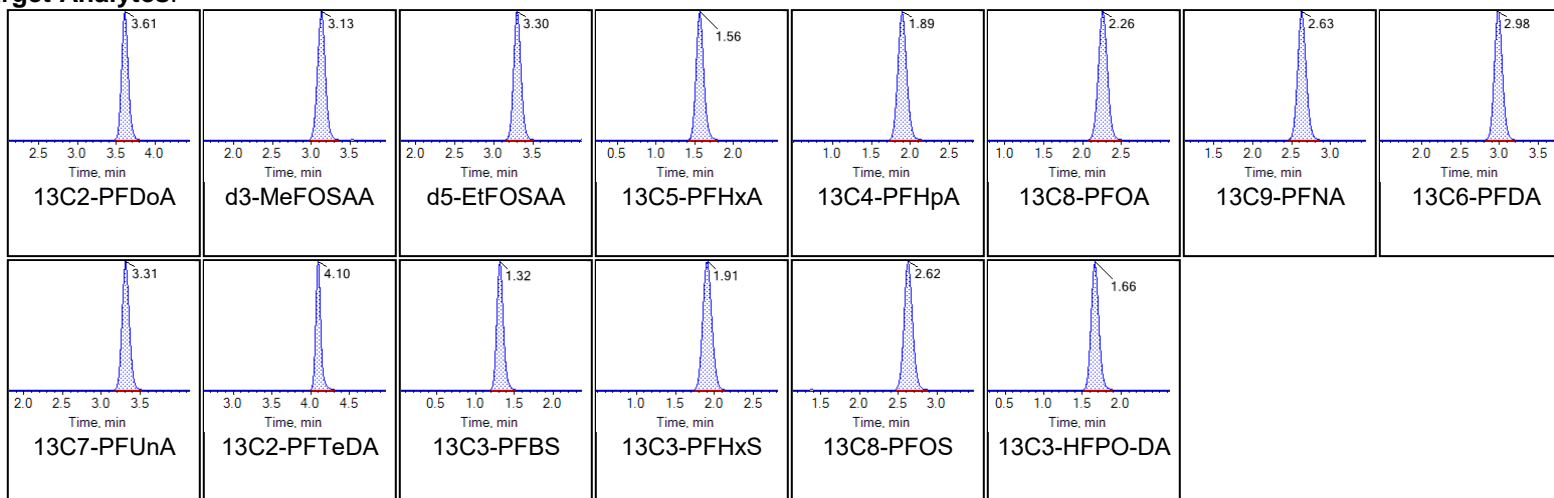
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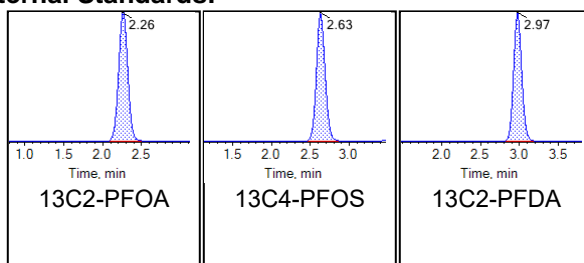
Sample Name	G1663-FS-D(7)	Injection Vial	39
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:16:05 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





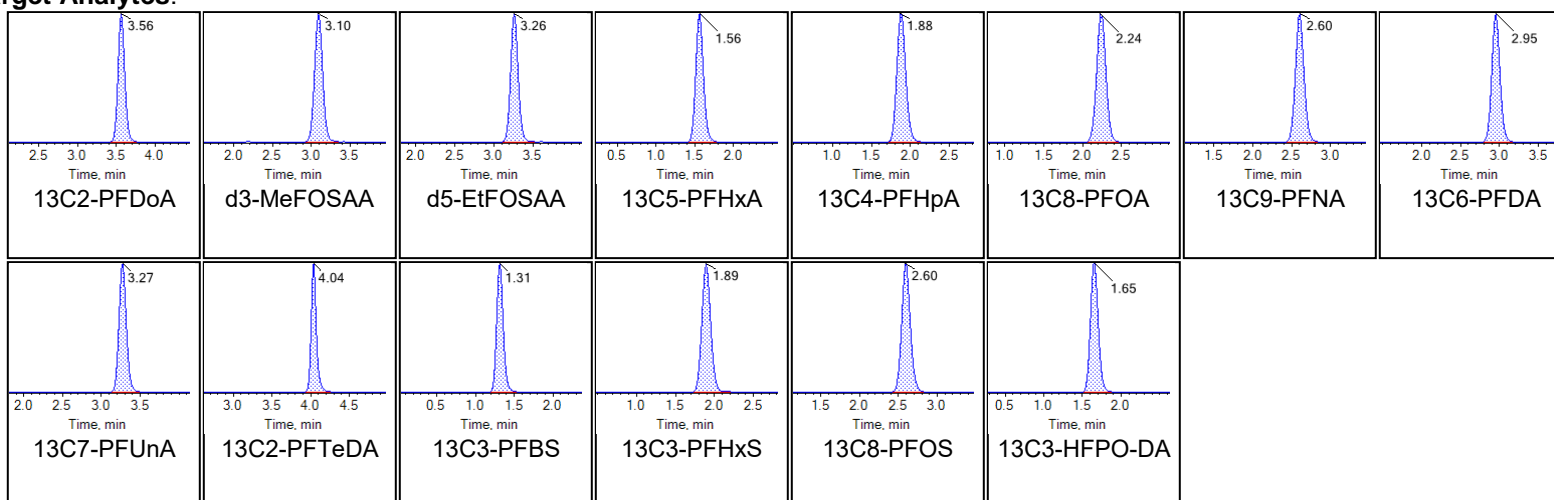
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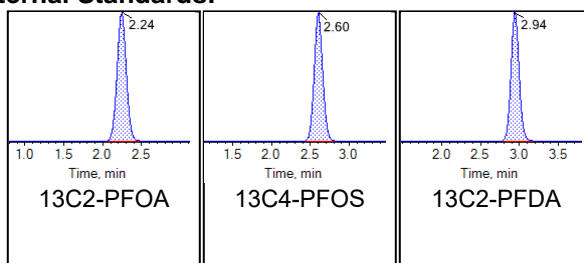
Sample Name	LD77 CCV	Injection Vial	41
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:37:00 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





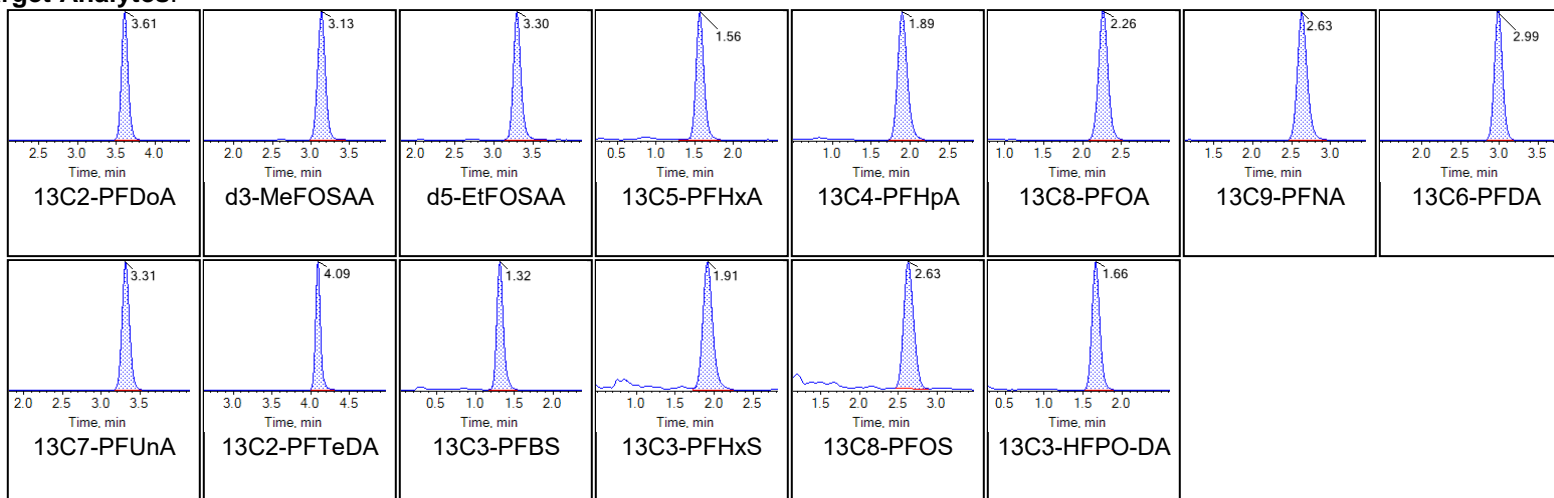
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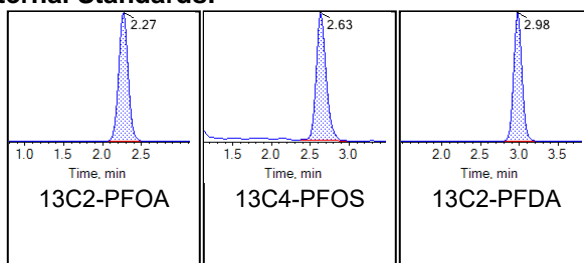
Sample Name	G1664-FS(0)	Injection Vial	42
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:47:28 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





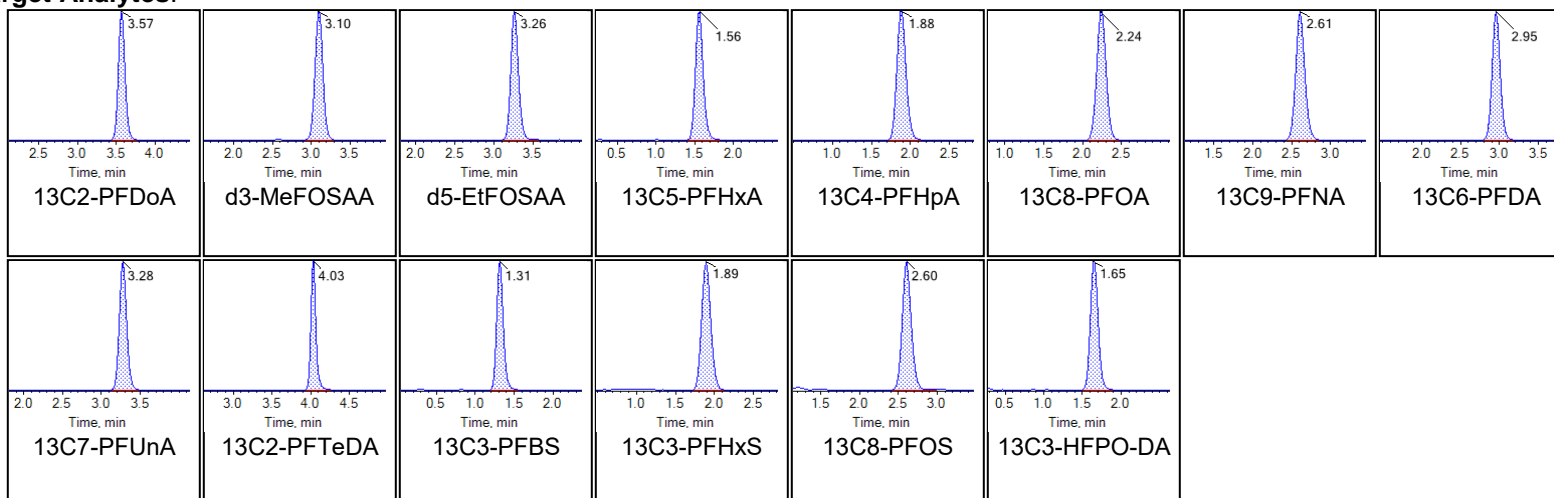
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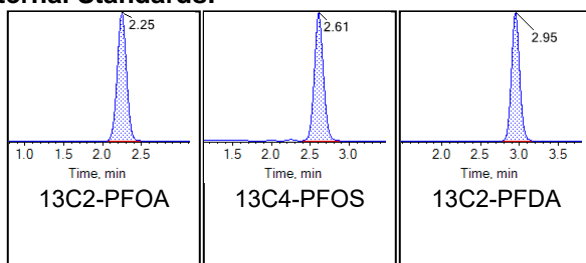
Sample Name	G1664-FS-D(3)	Injection Vial	43
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 5:57:57 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





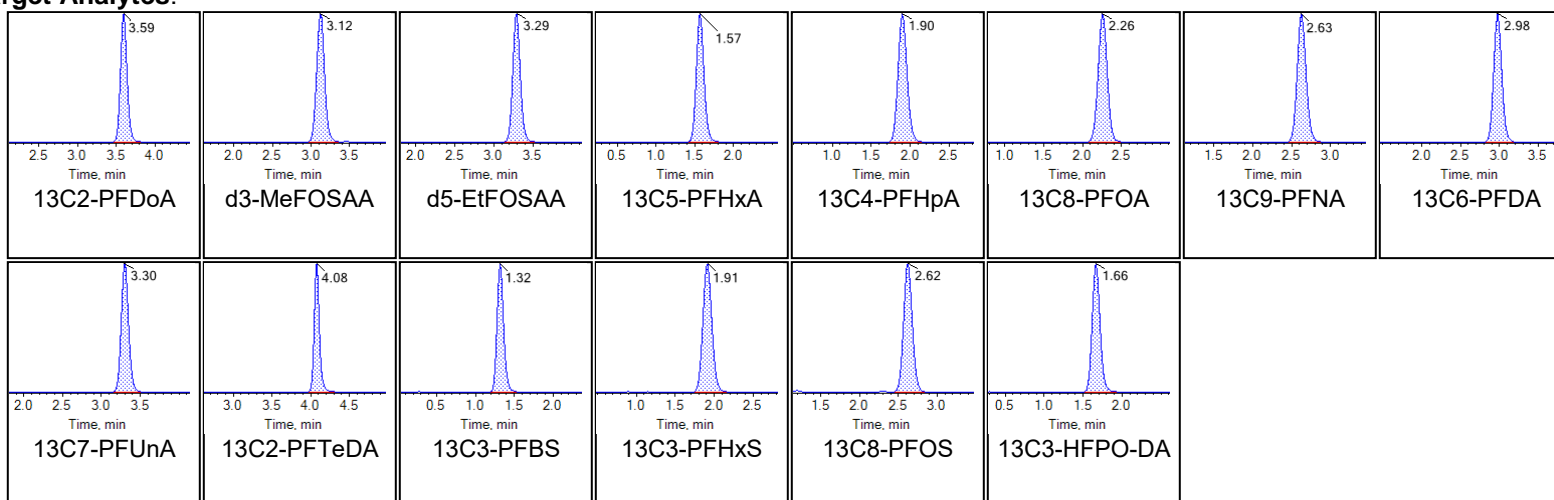
Chromatogram Report

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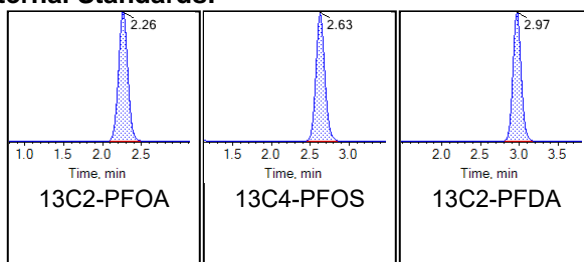
Sample Name	G1664-FS-D(5)	Injection Vial	44
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:08:26 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





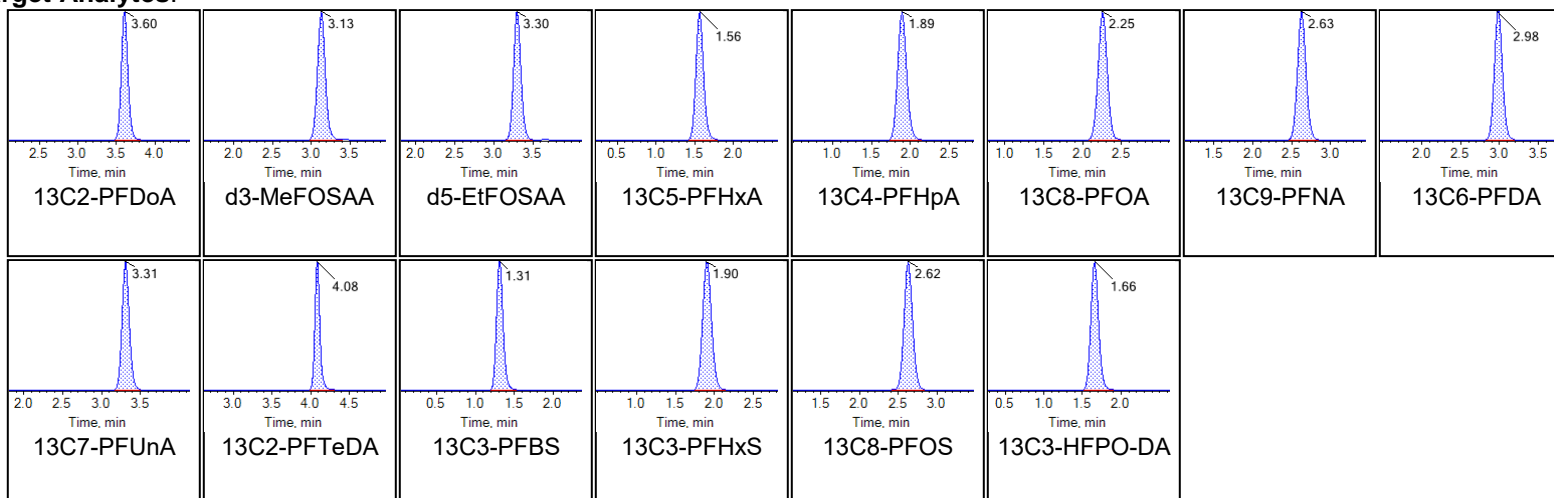
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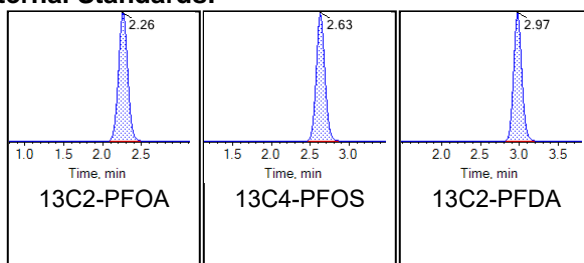
Sample Name	G1664-FS-D(7)	Injection Vial	45
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:18:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





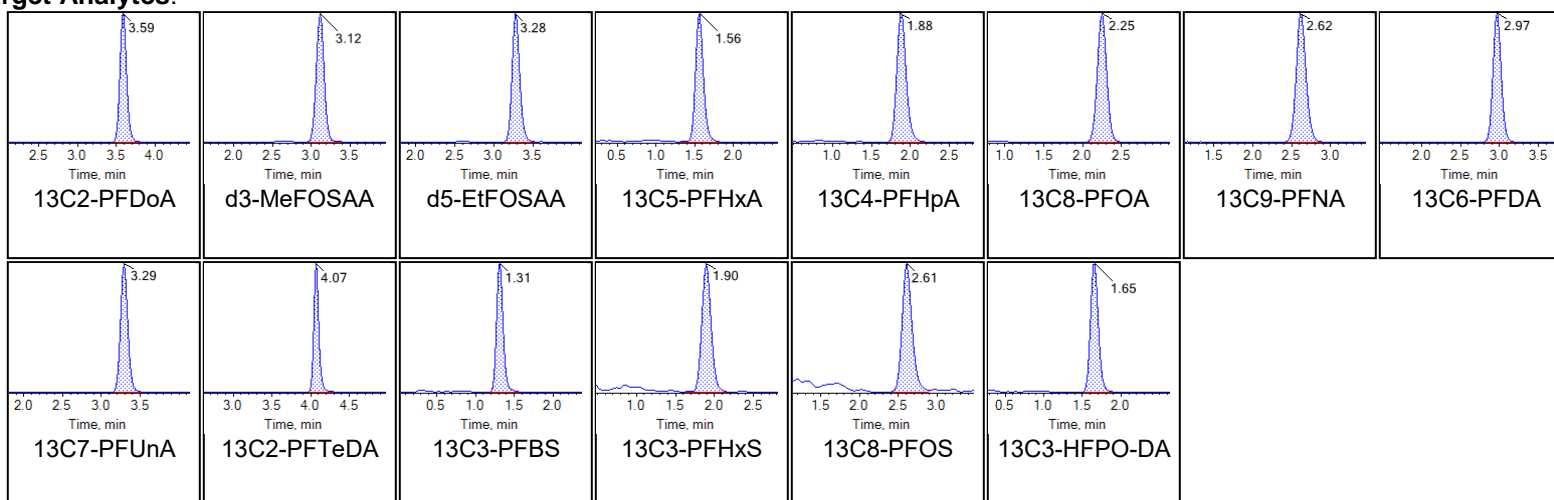
Chromatogram Report

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Printed: 04/11/2020 4:51:57 PM

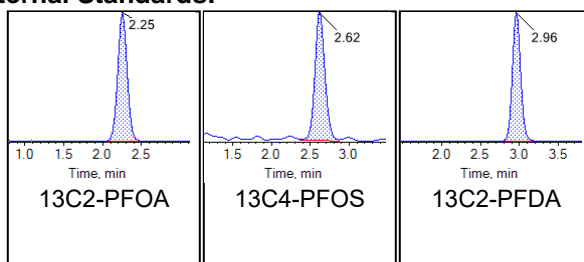
Sample Name	G1665-FS(0)	Injection Vial	46
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:29:25 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





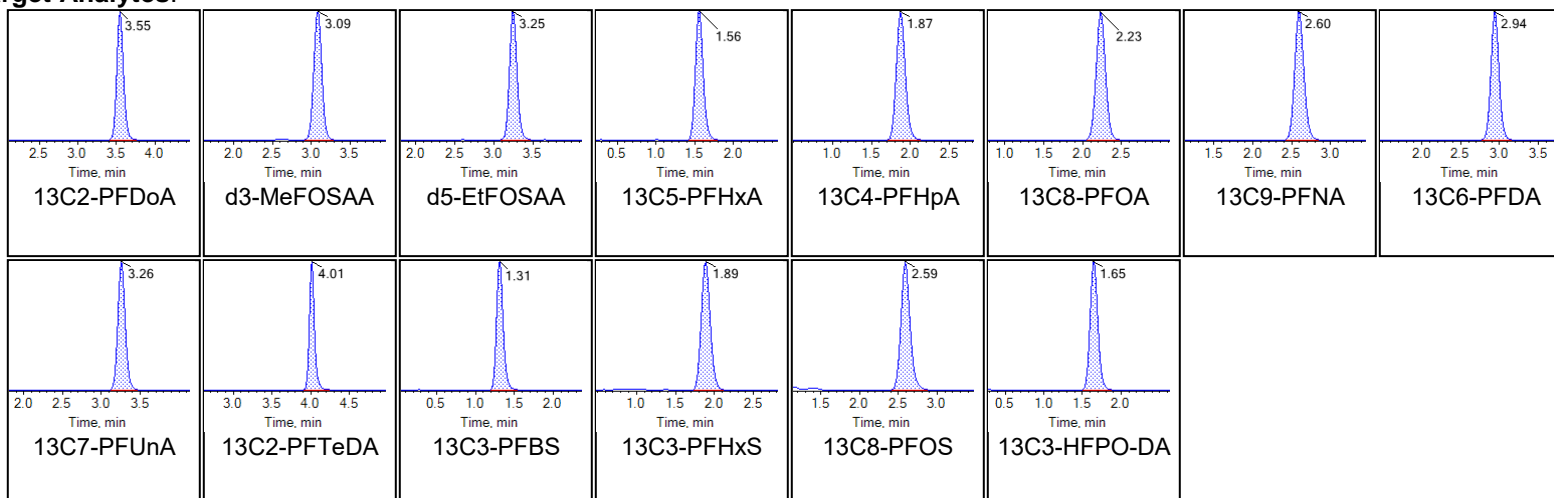
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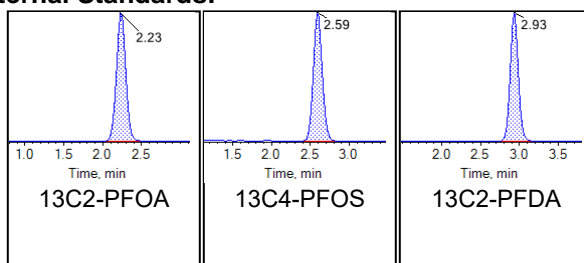
Sample Name	G1665-FS-D(3)	Injection Vial	47
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:39:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





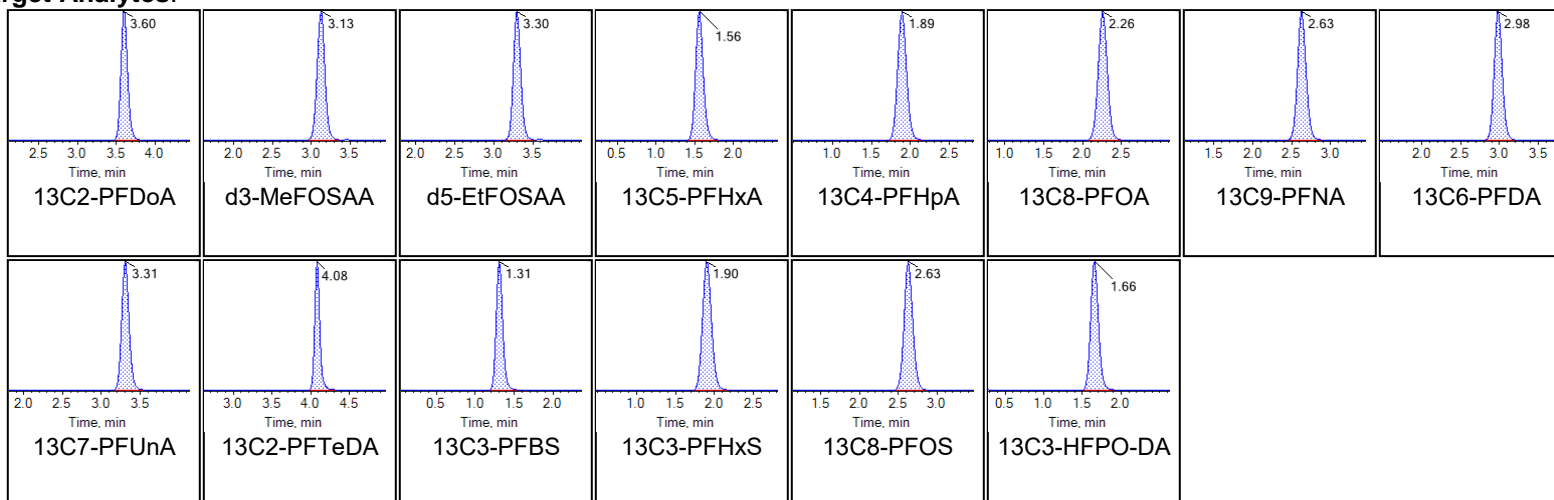
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 4:51:57 PM

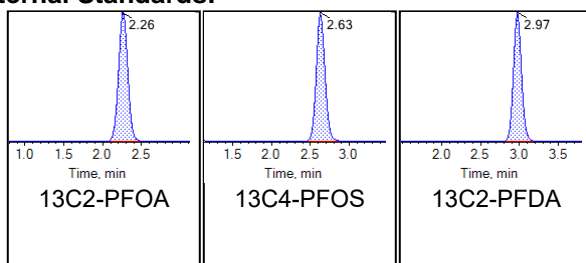
Sample Name	G1665-FS-D(7)	Injection Vial	49
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:00:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





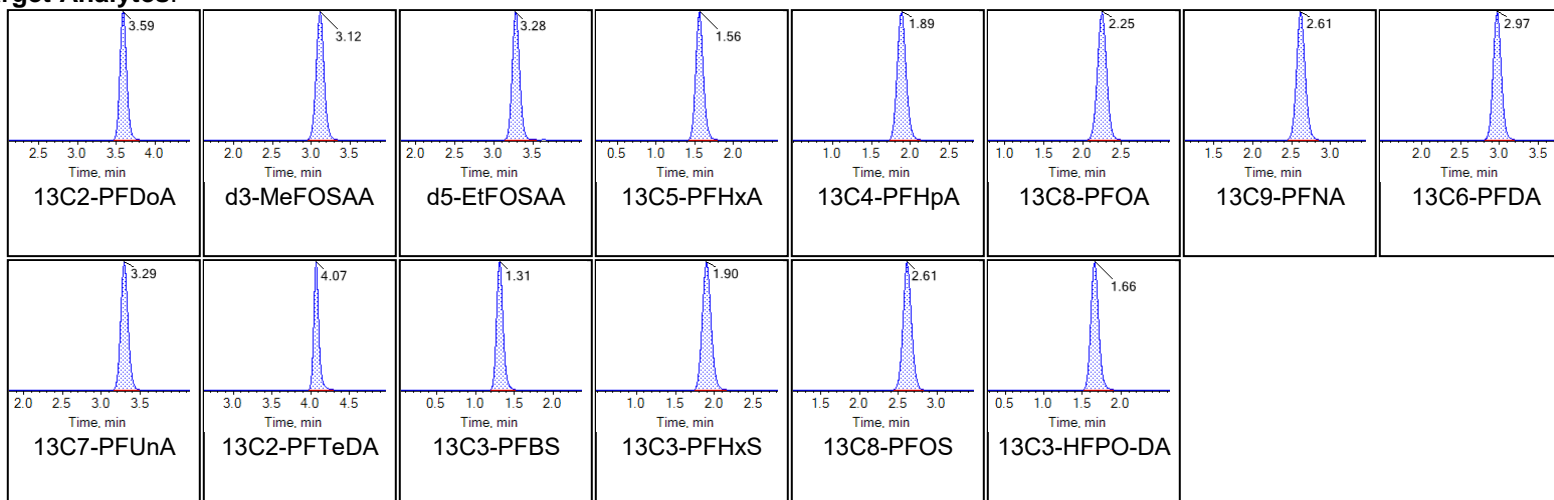
Chromatogram Report

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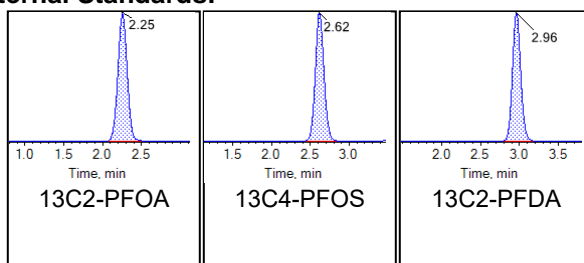
Sample Name	LD76 CCV	Injection Vial	51
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:22:06 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





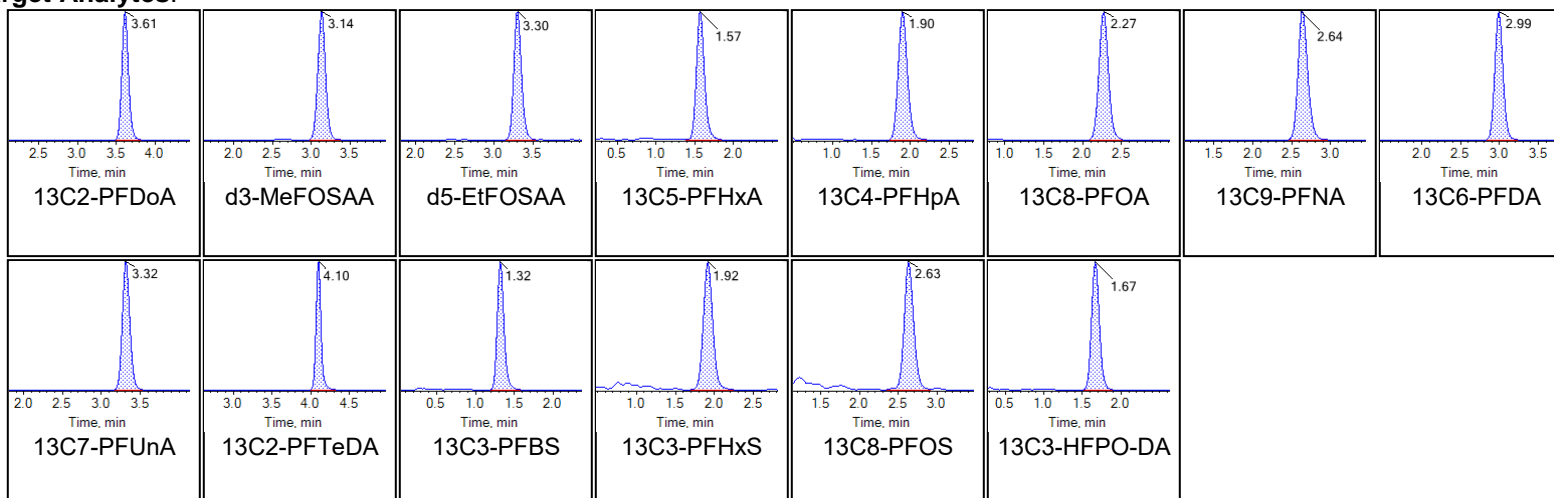
Chromatogram Report

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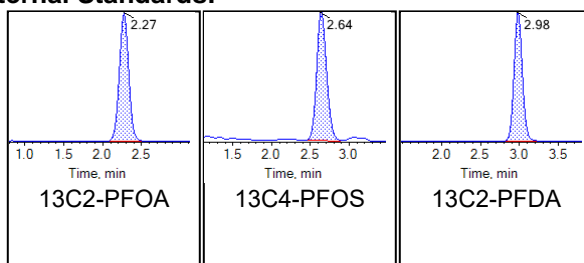
Sample Name	G1666MS-FS(0)	Injection Vial	52
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:32:35 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





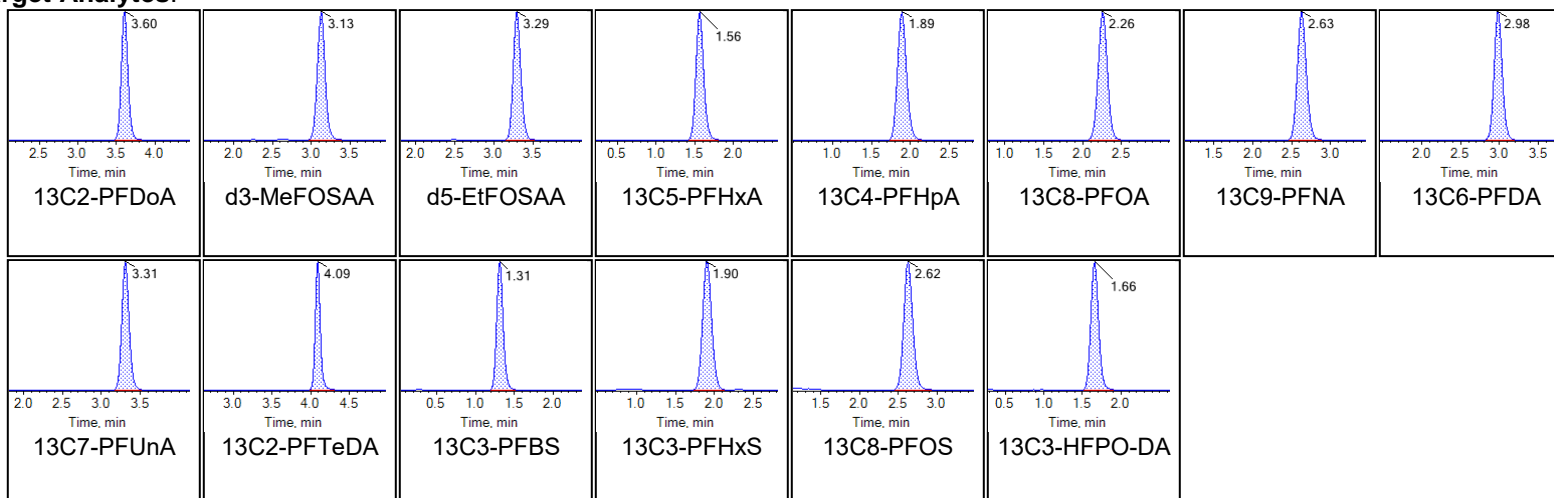
Chromatogram Report

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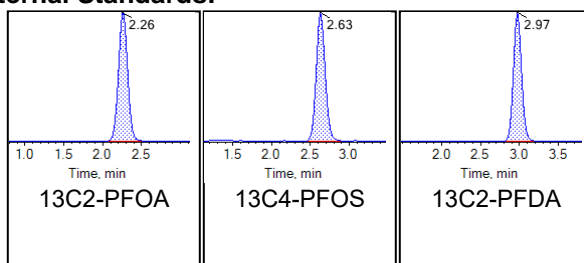
Sample Name	G1666MS-FS-D(3)	Injection Vial	53
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:43:04 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





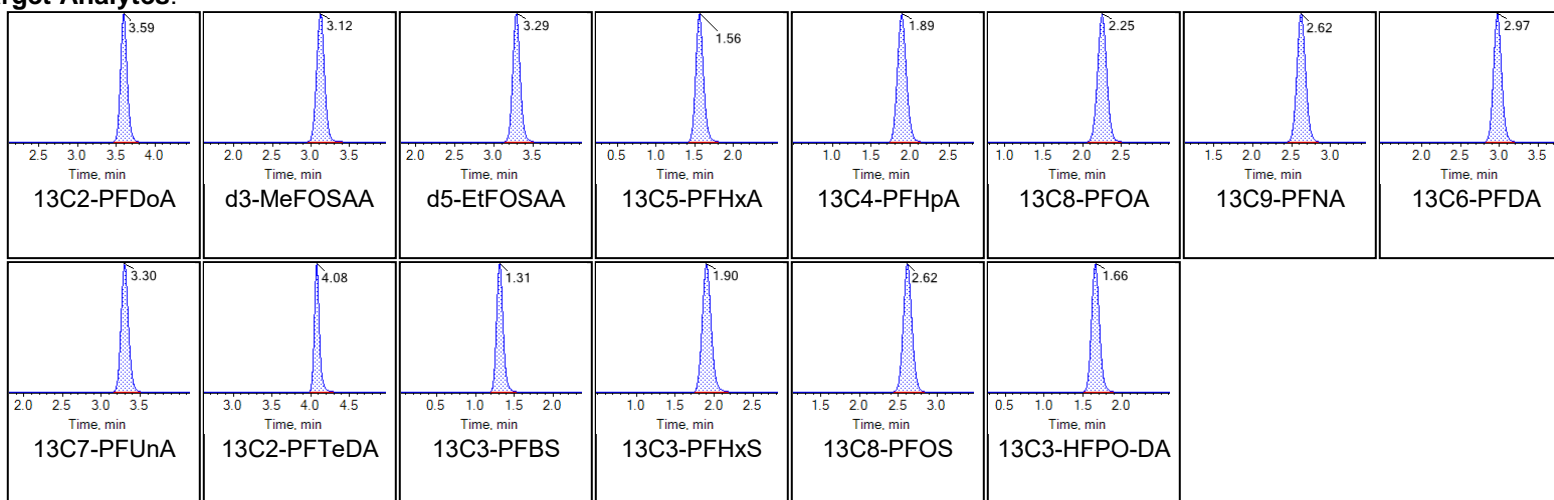
Chromatogram Report

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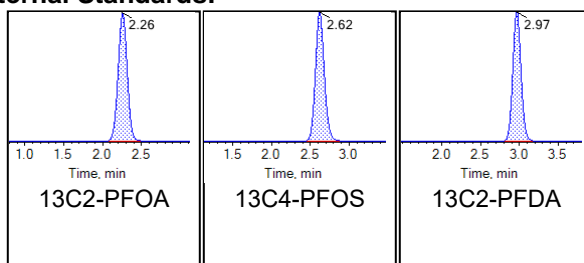
Sample Name	G1666MS-FS-D(7)	Injection Vial	1
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:04:01 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





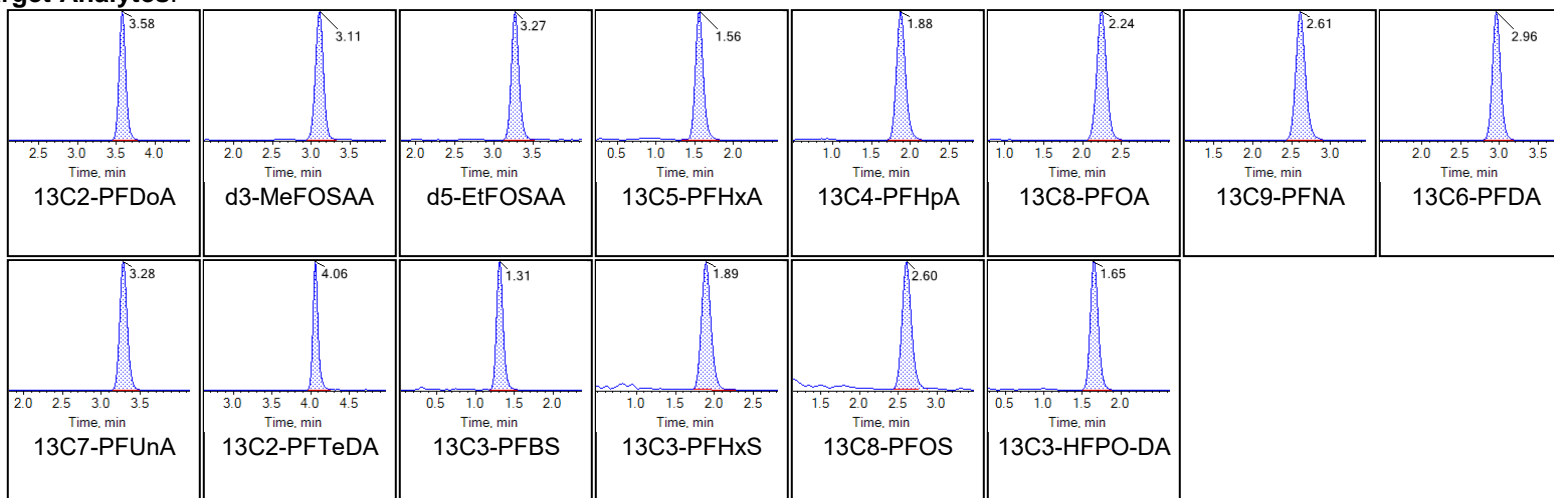
Chromatogram Report

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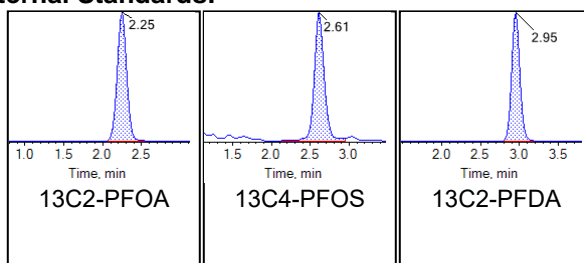
Sample Name	G1667MSD-FS(0)	Injection Vial	2
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:14:30 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





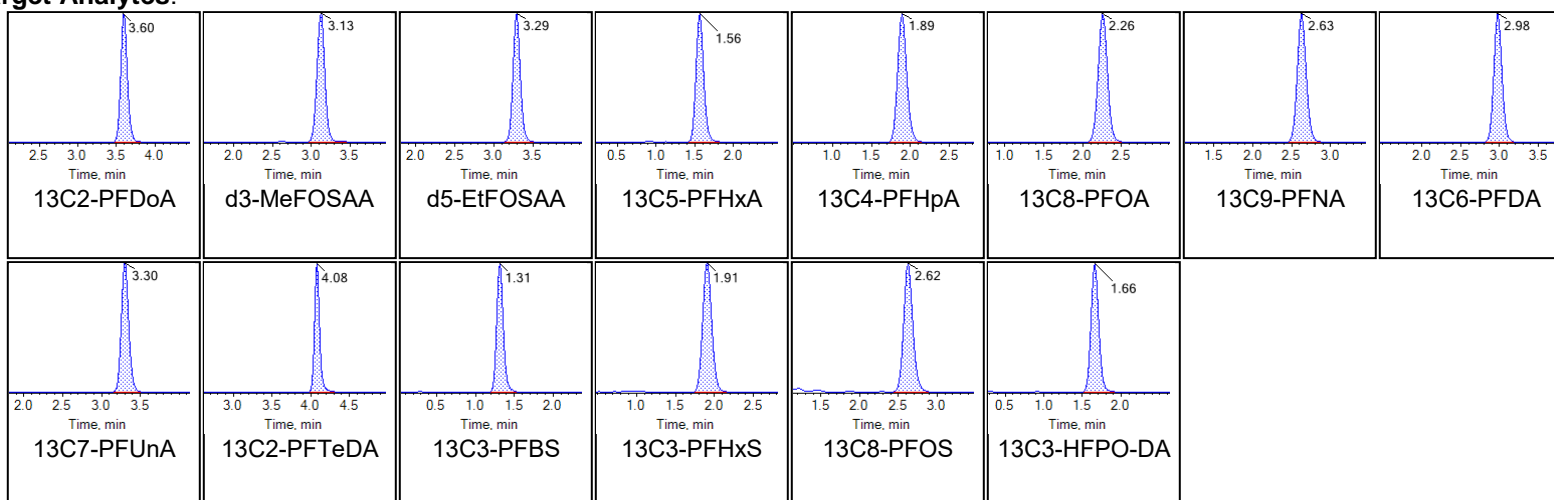
Chromatogram Report

Created with Analyst Reporter
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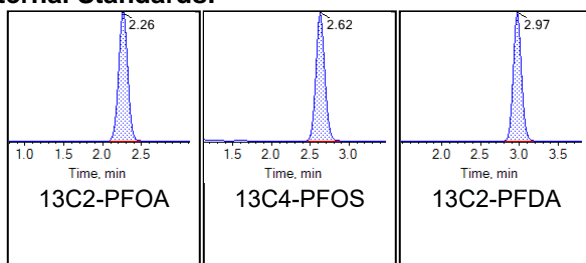
Sample Name	G1667MSD-FS-D(3)	Injection Vial	3
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:24:58 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





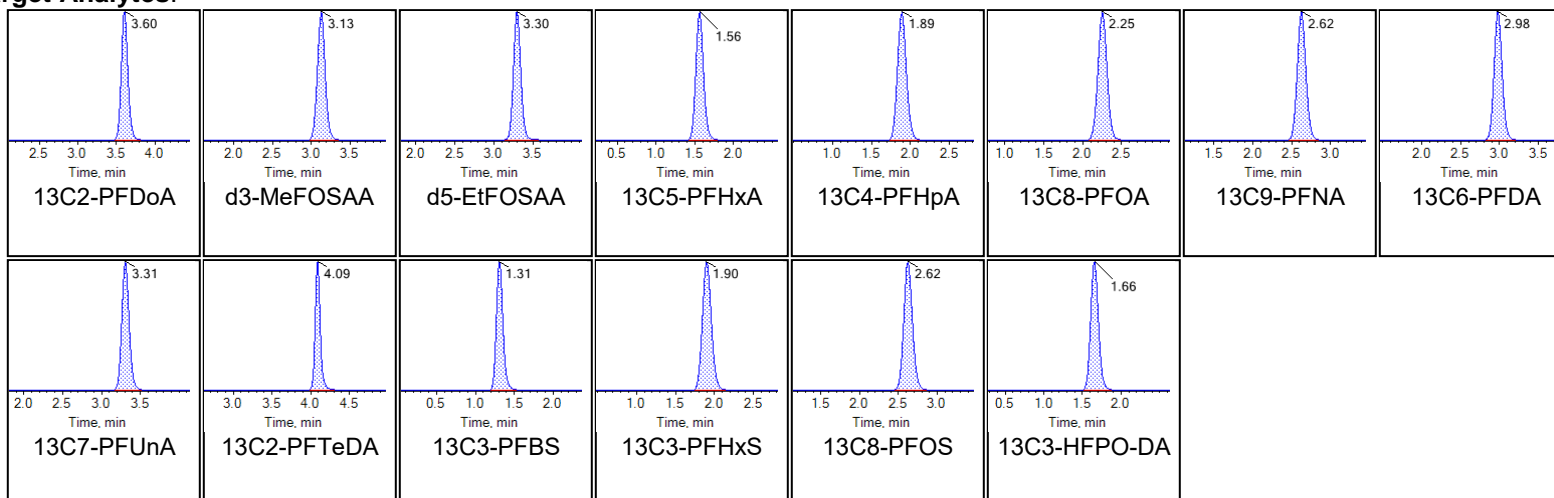
Chromatogram Report

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Printed: 04/11/2020 4:51:57 PM

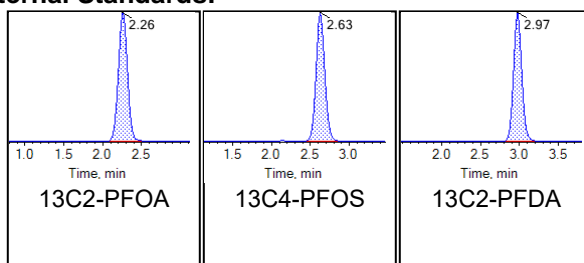
Sample Name	G1667MSD-FS-D(7)	Injection Vial	5
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:45:56 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





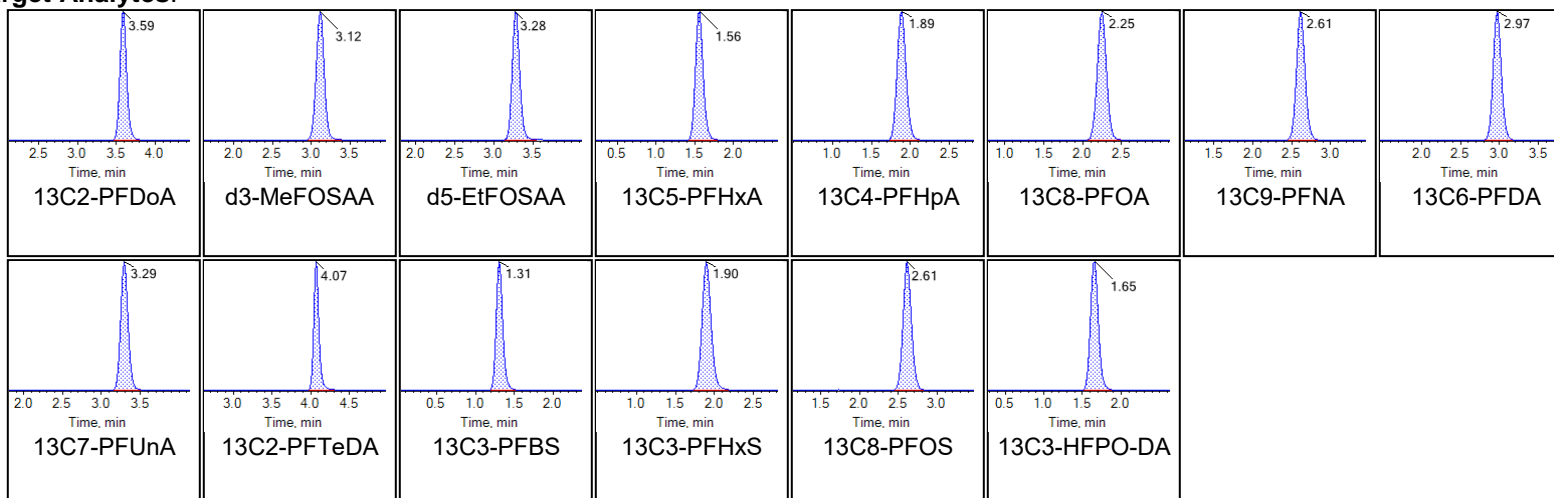
Chromatogram Report

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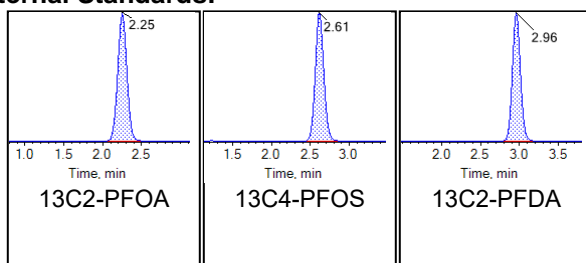
Sample Name	LD77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:06:53 AM	Data File	AE_11022020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





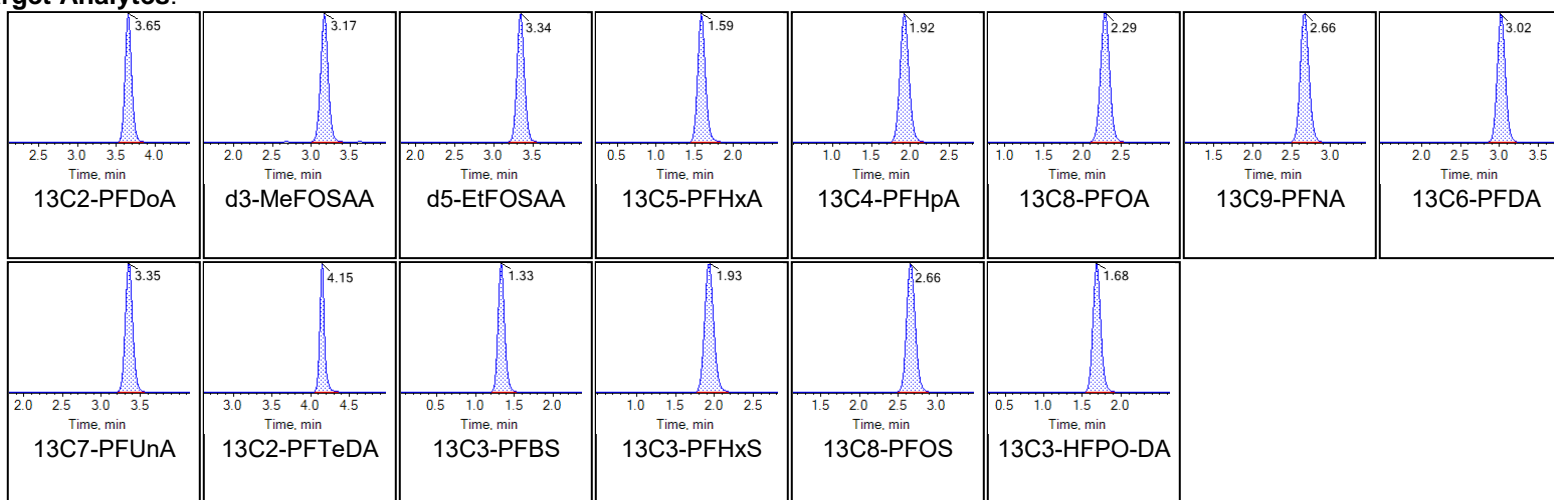
Chromatogram Report

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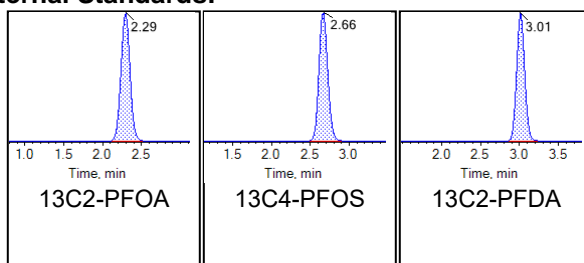
Sample Name	LD76 CCV	Injection Vial	2
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:17:43 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





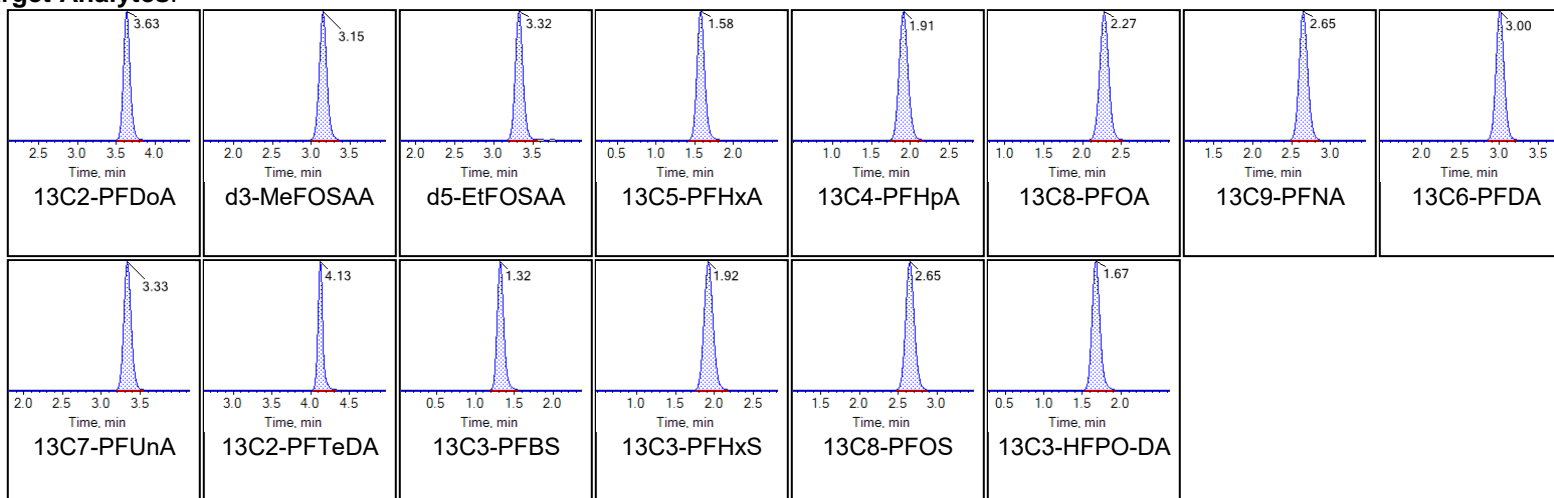
Chromatogram Report

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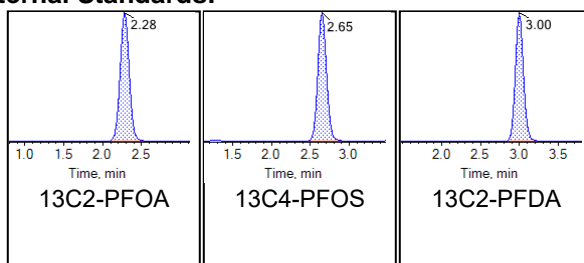
Sample Name	LD80 IB	Injection Vial	4
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:38:38 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





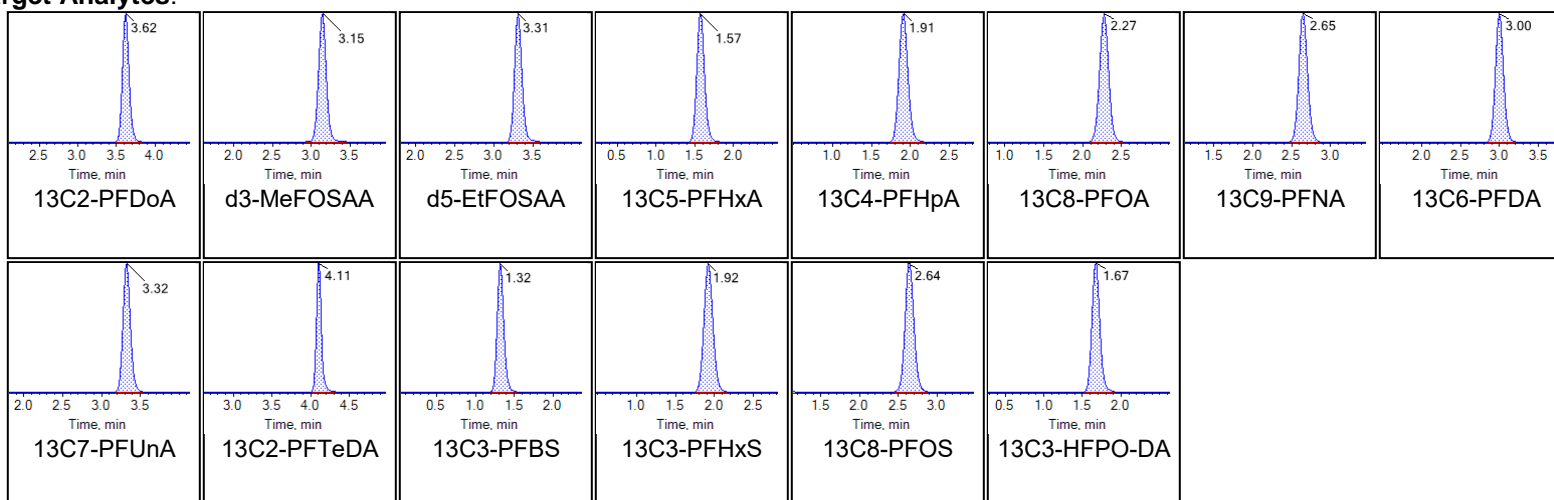
Chromatogram Report

Created with Analyst Reporter
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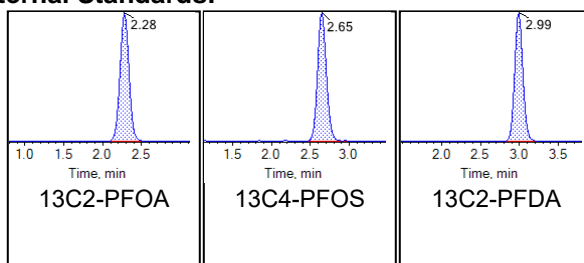
Sample Name	G1645-FS-D(7)	Injection Vial	8
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:20:27 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





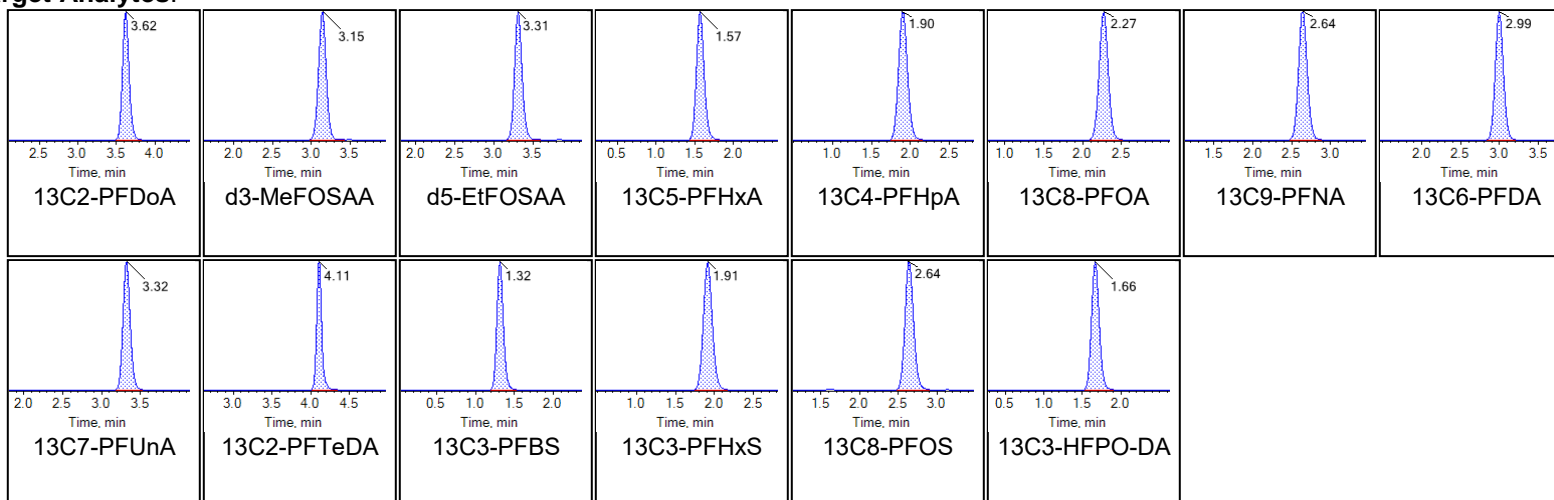
Chromatogram Report

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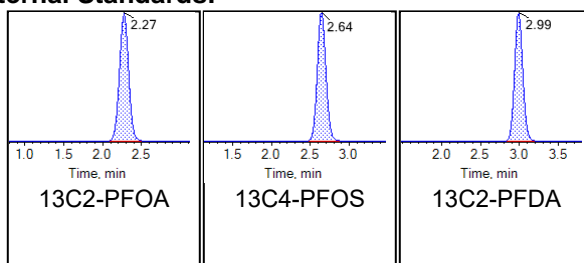
Sample Name	LD77 CCV	Injection Vial	12
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:02:17 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





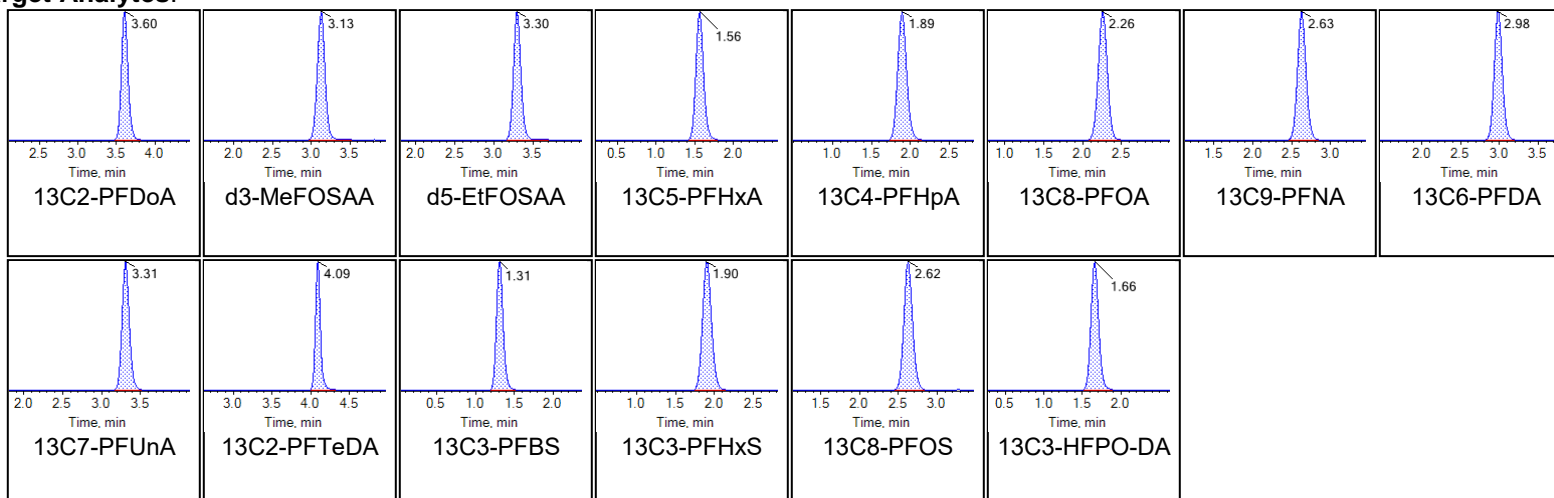
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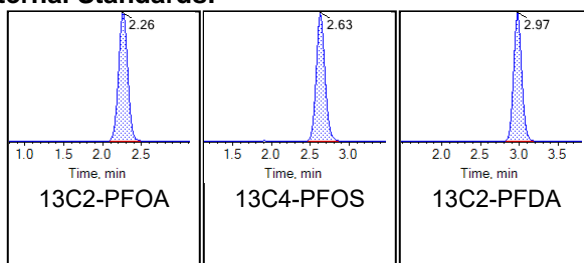
Sample Name	G1663-FS-D(9)	Injection Vial	18
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:05:03 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





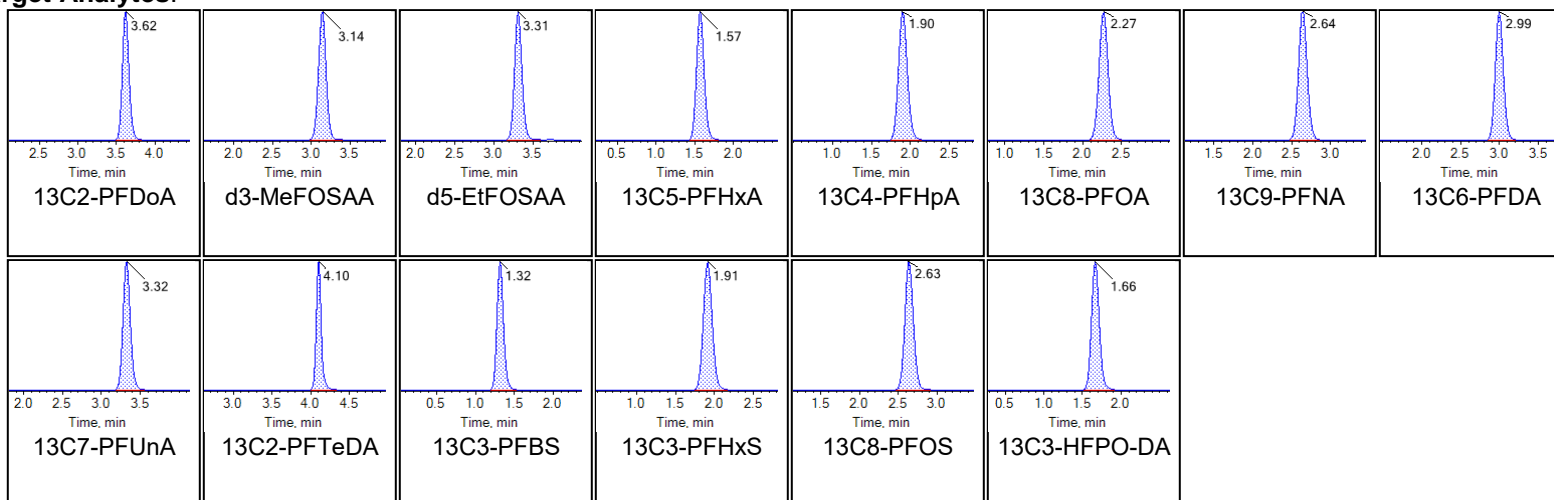
Chromatogram Report

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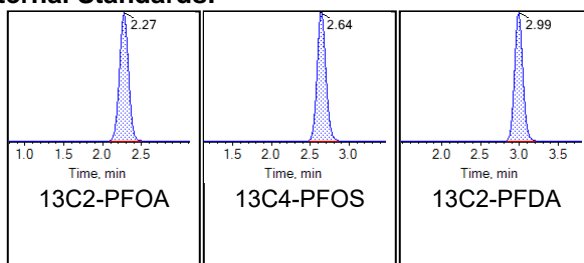
Sample Name	G1665-FS-D(9)	Injection Vial	20
Sample ID	CBD-AOA-SW10-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:26:00 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





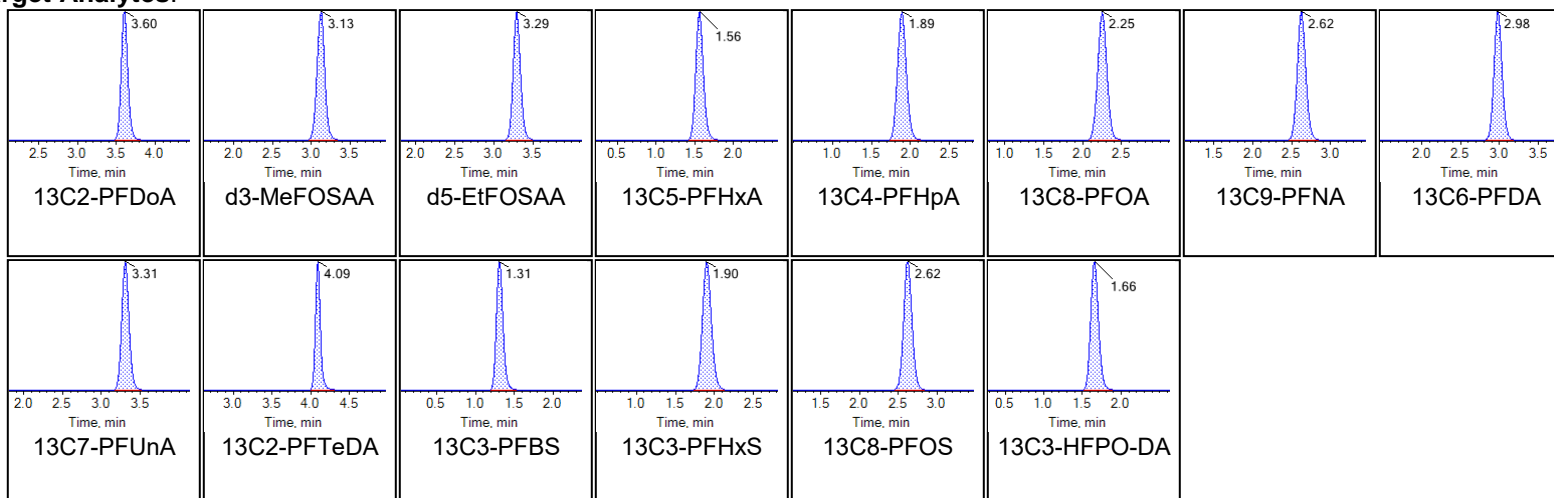
Chromatogram Report

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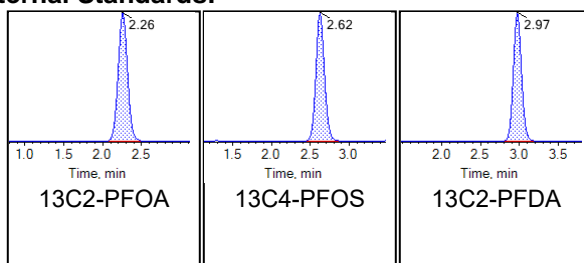
Sample Name	LD76 CCV	Injection Vial	23
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:57:25 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





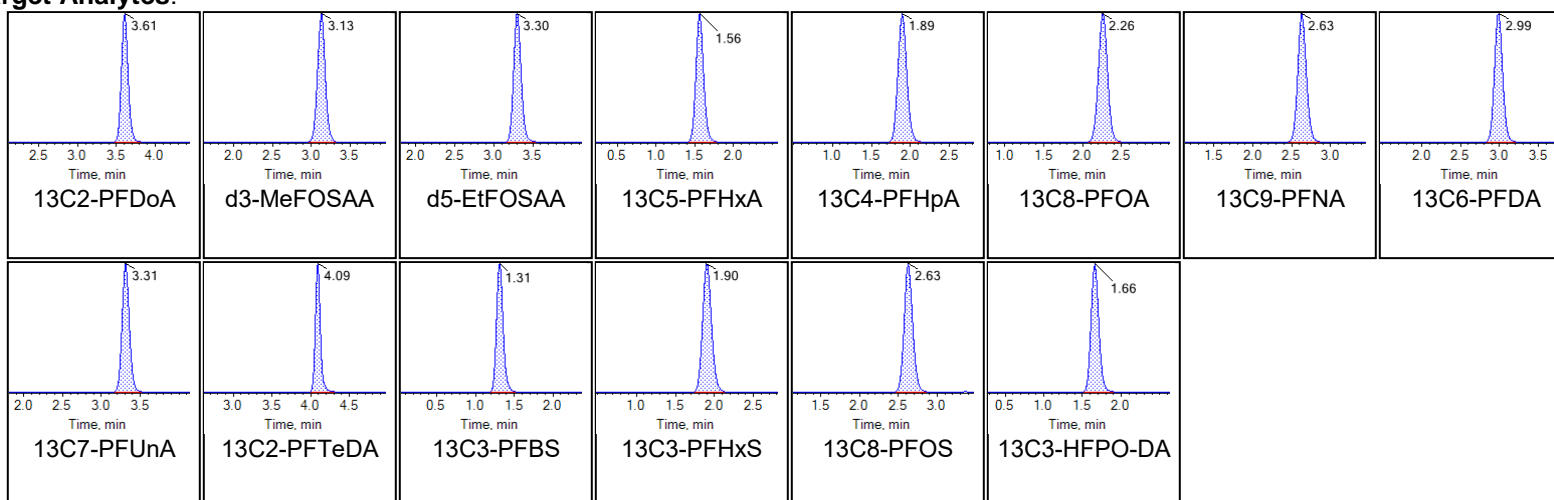
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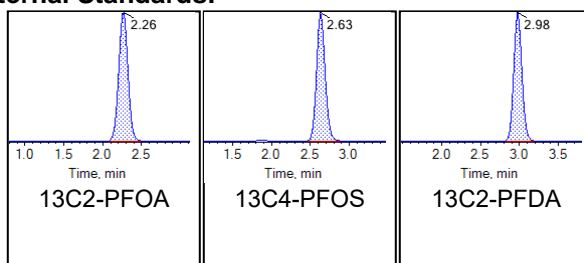
Sample Name	G1666MS-FS-D(9)	Injection Vial	24
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:07:53 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





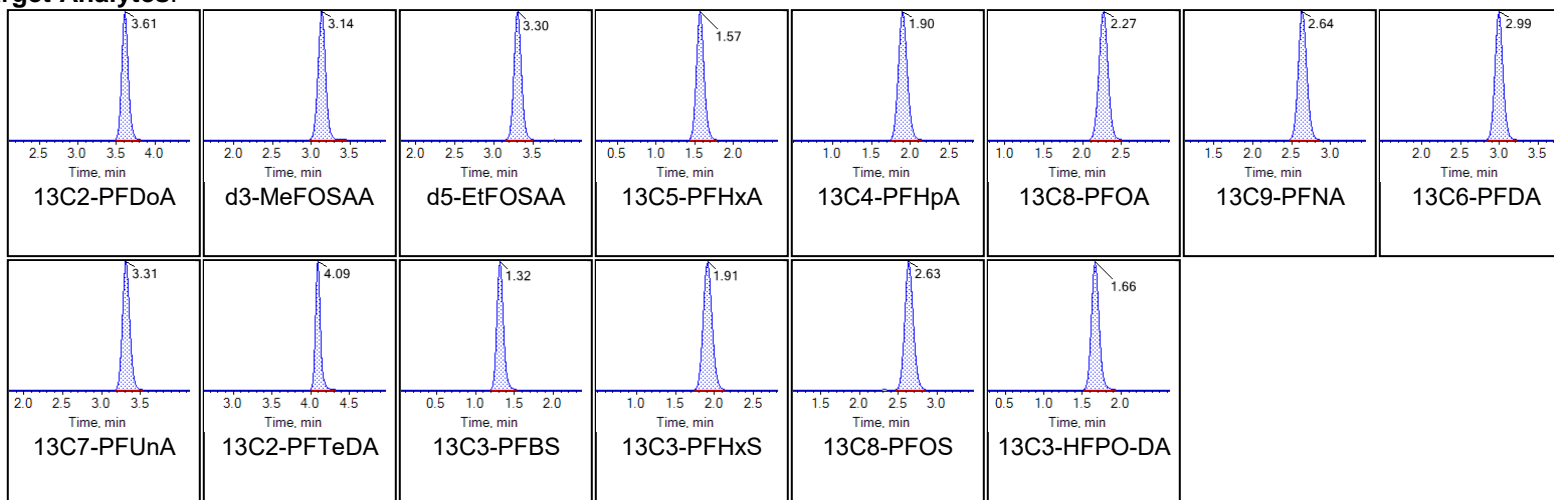
Chromatogram Report

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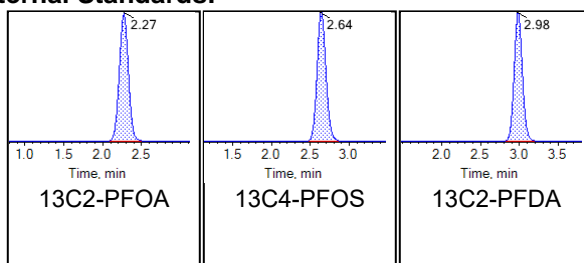
Sample Name	G1667MSD-FS-D(9)	Injection Vial	26
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:28:49 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





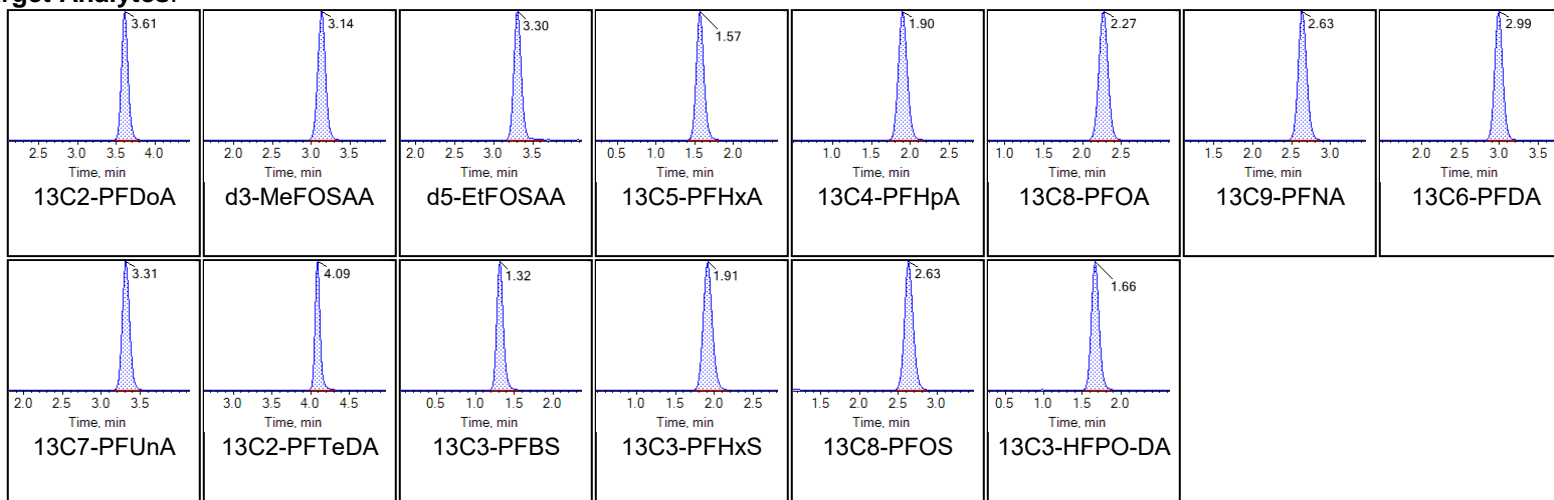
Chromatogram Report

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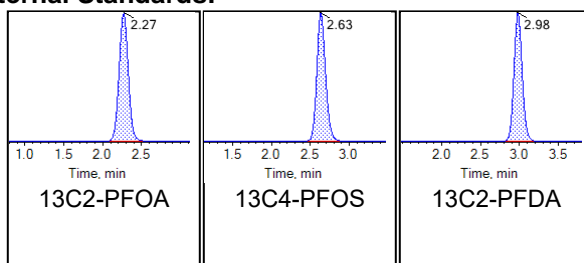
Sample Name	G1668-FS-D(7)	Injection Vial	28
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:49:45 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:





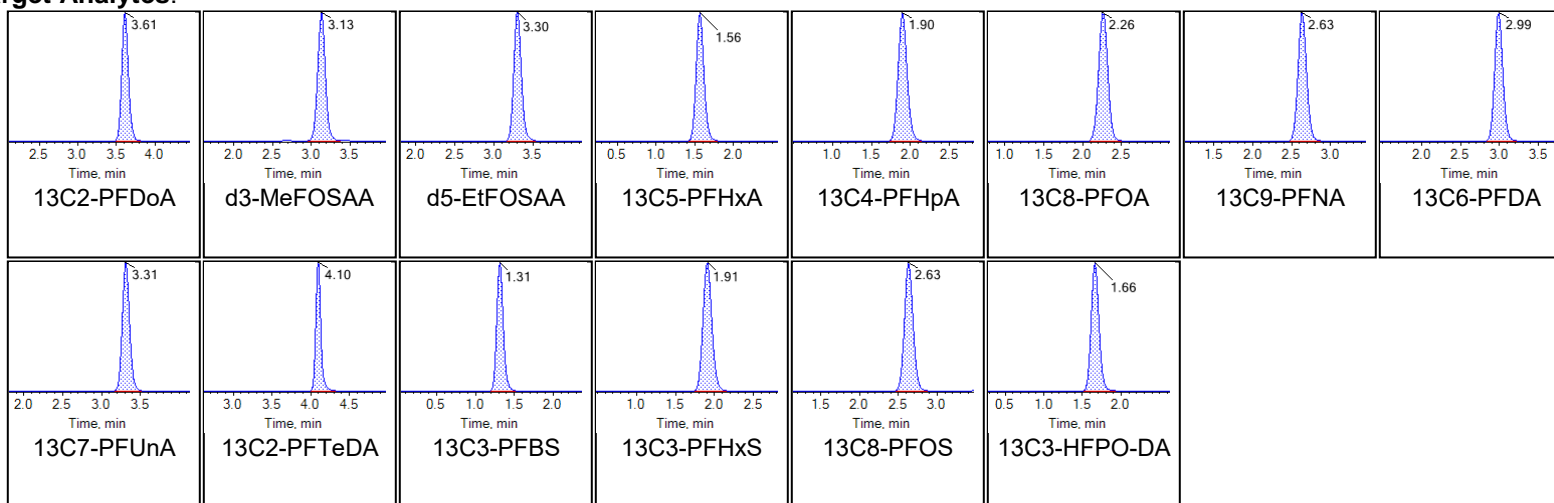
Chromatogram Report

Created with Analyst Reporter
Printed: 04/11/2020 4:51:57 PM

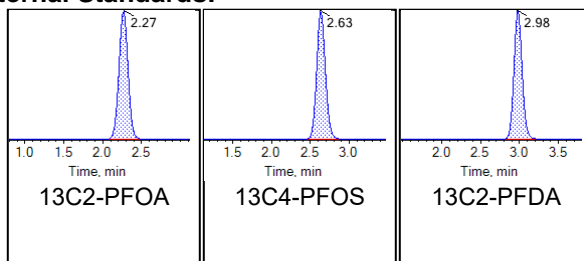
Sample Name	LD77 CCV	Injection Vial	30
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 11:10:40 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS

Chromatograms

Target Analytes:



Internal Standards:



Unused Data

Sample Name	G1668-FS(0)	Injection Vial	27
Sample ID	CBD-AOA-SW09-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:39:17 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	408823.42	406.40	4575.3	False	13C2-PFDA	923316.68	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	95242.44	1366.46	685.2	False	13C4-PFOS	97834.39	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	58648.79	881.66	666.7	False	13C4-PFOS	97834.39	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	326123.99	369.67	551.4	False	13C2-PFOA	694677.04	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	337464.51	387.78	780.5	False	13C2-PFOA	694677.04	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	664498.42	588.01	1170.7	False	13C2-PFOA	694677.04	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	376261.80	683.02	981.3	False	13C4-PFOS	97834.39	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	640172.03	721.13	2676.3	False	13C2-PFDA	923316.68	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	426906.34	530.62	2128.1	False	13C2-PFDA	923316.68	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	176272.22	204.24	3638.8	False	13C2-PFDA	923316.68	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	102045.59	927.27	1033.1	False	13C4-PFOS	97834.39	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	108236.12	1218.09	571.8	False	13C4-PFOS	97834.39	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	71427.21	841.18	256.8	False	13C4-PFOS	97834.39	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	244223.82	659.07	981.5	False	13C2-PFOA	694677.04	1250.00		N/A	N/A	✓

Sample Name	G1667MSD-FS(0)	Injection Vial	25
Sample ID	CBD-AOA-SW10-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 10:18:21 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	316269.06	353.01	3599.9	False	13C2-PFDA	822294.11	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	85625.04	1888.40	975.9	False	13C4-PFOS	63644.86	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	64592.83	1492.63	598.2	False	13C4-PFOS	63644.86	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	362491.42	487.43	795.1	False	13C2-PFOA	585597.31	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	299817.30	408.70	903.1	False	13C2-PFOA	585597.31	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	570598.45	598.97	1233.6	False	13C2-PFOA	585597.31	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	292550.13	816.34	950.1	False	13C4-PFOS	63644.86	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	697605.71	882.37	3113.3	False	13C2-PFDA	822294.11	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	480842.23	671.09	2940.4	False	13C2-PFDA	822294.11	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	17106.02	22.26	1524.2	False	13C2-PFDA	822294.11	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	119739.48	1672.54	1397.3	False	13C4-PFOS	63644.86	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	71602.87	1238.70	344.0	False	13C4-PFOS	63644.86	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	51413.92	930.75	258.2	False	13C4-PFOS	63644.86	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	292208.20	935.45	1013.7	False	13C2-PFOA	585597.31	1250.00		N/A	N/A	✓

Sample Name	G1666MS-FS(0)	Injection Vial	21
Sample ID	CBD-AOA-SW10-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:36:28 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	528064.84	555.83	3636.7	False	13C2-PFDA	871985.97	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	102531.32	2019.71	701.0	False	13C4-PFOS	71256.72	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	86441.97	1784.15	834.5	False	13C4-PFOS	71256.72	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	344979.95	491.06	558.0	False	13C2-PFOA	553186.93	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	287025.64	414.18	953.2	False	13C2-PFOA	553186.93	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	590955.08	656.69	1257.0	False	13C2-PFOA	553186.93	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	317403.43	791.07	1210.1	False	13C4-PFOS	71256.72	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	783434.24	934.46	3660.0	False	13C2-PFDA	871985.97	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	603781.06	794.64	2813.2	False	13C2-PFDA	871985.97	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	67138.08	82.37	2967.6	False	13C2-PFDA	871985.97	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	120477.73	1503.08	1368.2	False	13C4-PFOS	71256.72	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	74316.50	1148.30	380.9	False	13C4-PFOS	71256.72	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	50593.86	818.07	192.1	False	13C4-PFOS	71256.72	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	312146.11	1057.83	902.0	False	13C2-PFOA	553186.93	1250.00		N/A	N/A	✓



Sample Name	G1664-FS(0)	Injection Vial	19
Sample ID	CBD-AOA-SW11P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 9:15:31 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	689701.37	677.72	3713.7	False	13C2-PFDA	934060.96	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	125531.32	2793.37	1013.1	False	13C4-PFOS	63078.49	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	112801.70	2630.07	881.6	False	13C4-PFOS	63078.49	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	348443.97	527.82	554.9	False	13C2-PFOA	519830.56	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	249904.30	383.76	655.6	False	13C2-PFOA	519830.56	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	520755.62	615.81	1173.4	False	13C2-PFOA	519830.56	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	280794.70	790.57	1083.2	False	13C4-PFOS	63078.49	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	730477.34	813.39	4620.6	False	13C2-PFDA	934060.96	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	687077.12	844.18	3692.6	False	13C2-PFDA	934060.96	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	185599.41	212.57	3871.5	False	13C2-PFDA	934060.96	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	126666.38	1785.18	1046.4	False	13C4-PFOS	63078.49	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	64875.53	1132.39	375.5	False	13C4-PFOS	63078.49	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	52179.02	953.08	215.8	False	13C4-PFOS	63078.49	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	277587.07	1001.07	591.2	False	13C2-PFOA	519830.56	1250.00		N/A	N/A	✓

Sample Name	G1646-FS(0)	Injection Vial	9
Sample ID	CBD-AOA-SW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:30:54 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	793698.03	737.10	4267.8	False	13C2-PFDA	988302.13	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	137696.34	1188.48	864.4	False	13C4-PFOS	162625.14	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	127443.83	1152.56	1001.9	False	13C4-PFOS	162625.14	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	330090.74	447.41	567.2	False	13C2-PFOA	580950.06	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	404757.08	556.16	840.4	False	13C2-PFOA	580950.06	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	758087.49	802.15	1768.7	False	13C2-PFOA	580950.06	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	780029.18	851.83	1558.6	False	13C4-PFOS	162625.14	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	835479.55	879.25	3137.3	False	13C2-PFDA	988302.13	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	767454.07	891.18	3702.8	False	13C2-PFDA	988302.13	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	362269.74	392.15	4083.2	False	13C2-PFDA	988302.13	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	99235.24	542.48	919.2	False	13C4-PFOS	162625.14	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	126478.62	856.30	457.7	False	13C4-PFOS	162625.14	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	130711.97	926.07	436.3	False	13C4-PFOS	162625.14	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	232337.14	749.74	581.3	False	13C2-PFOA	580950.06	1250.00		N/A	N/A	✓

Sample Name	G1647-FS(0)	Injection Vial	10
Sample ID	CBD-AOA-SW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:41:21 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	516108.37	576.18	3267.2	False	13C2-PFDA	822145.28	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.15	114156.36	1026.92	875.6	False	13C4-PFOS	156034.49	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	100230.80	944.74	848.8	False	13C4-PFOS	156034.49	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	362845.43	512.52	652.4	False	13C2-PFOA	557474.31	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	473720.30	678.33	835.8	False	13C2-PFOA	557474.31	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	769581.43	848.61	1914.4	False	13C2-PFOA	557474.31	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	775015.80	882.11	1995.6	False	13C4-PFOS	156034.49	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	728074.51	921.07	2619.3	False	13C2-PFDA	822145.28	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.33	594027.78	829.20	2846.1	False	13C2-PFDA	822145.28	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	190804.49	248.28	4717.3	False	13C2-PFDA	822145.28	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	124278.94	708.08	985.5	False	13C4-PFOS	156034.49	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	135688.28	957.46	422.8	False	13C4-PFOS	156034.49	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	128843.52	951.39	364.7	False	13C4-PFOS	156034.49	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	258658.15	869.82	570.1	False	13C2-PFOA	557474.31	1250.00		N/A	N/A	✓

Sample Name	G1651-FS(0)	Injection Vial	13
Sample ID	CBD-AOA-SW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:12:44 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	283366.67	251.87	3515.7	False	13C2-PFDA	1032600.32	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.15	43721.44	333.23	726.6	False	13C4-PFOS	184166.81	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.32	46625.38	372.34	1007.0	False	13C4-PFOS	184166.81	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.58	246422.53	271.45	781.0	False	13C2-PFOA	714837.07	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.91	297282.72	331.98	1105.3	False	13C2-PFOA	714837.07	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	394535.95	339.28	1362.9	False	13C2-PFOA	714837.07	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	396898.40	382.74	2057.7	False	13C4-PFOS	184166.81	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	381174.87	383.94	3563.1	False	13C2-PFDA	1032600.32	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.33	258834.04	287.67	2274.5	False	13C2-PFDA	1032600.32	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	146040.10	151.30	4541.8	False	13C2-PFDA	1032600.32	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	70130.72	338.53	839.4	False	13C4-PFOS	184166.81	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	62652.24	374.56	336.7	False	13C4-PFOS	184166.81	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	56630.76	354.29	250.4	False	13C4-PFOS	184166.81	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	145105.46	380.54	540.6	False	13C2-PFOA	714837.07	1250.00		N/A	N/A	✓

Sample Name	G1652-FS(0)	Injection Vial	14
Sample ID	CBD-AOA-SW02P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:23:12 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	790670.38	720.48	4801.9	False	13C2-PFDA	1007255.63	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	135413.11	1281.47	842.2	False	13C4-PFOS	148323.51	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	133887.38	1327.58	971.9	False	13C4-PFOS	148323.51	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	357576.55	467.44	615.8	False	13C2-PFOA	602361.84	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	447862.83	593.52	1068.5	False	13C2-PFOA	602361.84	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	727297.48	742.22	1911.0	False	13C2-PFOA	602361.84	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	805227.33	964.14	1811.3	False	13C4-PFOS	148323.51	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	820610.23	847.35	3808.7	False	13C2-PFDA	1007255.63	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	694519.09	791.31	4247.8	False	13C2-PFDA	1007255.63	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	456236.65	484.57	4522.0	False	13C2-PFDA	1007255.63	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	115440.40	691.91	1076.6	False	13C4-PFOS	148323.51	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	129762.63	963.25	548.6	False	13C4-PFOS	148323.51	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	137059.16	1064.67	339.5	False	13C4-PFOS	148323.51	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	256377.82	797.91	576.2	False	13C2-PFOA	602361.84	1250.00		N/A	N/A	✓

Sample Name	G1654-FS(0)	Injection Vial	15
Sample ID	CBD-AOA-SW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:33:40 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.60	603629.69	443.92	4597.4	False	13C2-PFDA	1248032.45	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	90313.10	606.22	661.8	False	13C4-PFOS	209112.47	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	99603.03	700.53	935.2	False	13C4-PFOS	209112.47	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	344552.52	370.01	614.7	False	13C2-PFOA	733256.32	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	434495.05	473.01	1122.7	False	13C2-PFOA	733256.32	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	650550.33	545.38	1566.2	False	13C2-PFOA	733256.32	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	734742.64	624.00	1930.4	False	13C4-PFOS	209112.47	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	754098.49	628.45	2588.5	False	13C2-PFDA	1248032.45	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	599919.53	551.66	4667.7	False	13C2-PFDA	1248032.45	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	455702.85	390.63	4737.0	False	13C2-PFDA	1248032.45	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	112741.05	479.30	1030.6	False	13C4-PFOS	209112.47	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	116166.46	611.64	477.7	False	13C4-PFOS	209112.47	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	114953.42	633.37	504.1	False	13C4-PFOS	209112.47	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	236175.90	603.82	591.5	False	13C2-PFOA	733256.32	1250.00		N/A	N/A	✓

Sample Name	G1661-FS(0)	Injection Vial	16
Sample ID	CBD-AOA-SW06-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:44:08 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.62	352424.58	420.56	2677.7	False	13C2-PFDA	769135.40	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.15	99220.00	2222.19	862.4	False	13C4-PFOS	62672.17	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.32	88339.63	2073.07	1050.7	False	13C4-PFOS	62672.17	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	349689.16	509.83	552.6	False	13C2-PFOA	540098.99	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	269999.26	399.06	728.8	False	13C2-PFOA	540098.99	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	554542.95	631.16	1587.1	False	13C2-PFOA	540098.99	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.65	278368.24	788.82	845.6	False	13C4-PFOS	62672.17	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	600792.77	812.43	2359.2	False	13C2-PFDA	769135.40	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	496019.26	740.11	2283.2	False	13C2-PFDA	769135.40	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.11	41504.94	57.73	2473.6	False	13C2-PFDA	769135.40	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	117354.04	1664.66	1097.0	False	13C4-PFOS	62672.17	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	66398.55	1166.49	288.1	False	13C4-PFOS	62672.17	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	43985.17	808.63	239.3	False	13C4-PFOS	62672.17	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	288237.07	1000.47	745.0	False	13C2-PFOA	540098.99	1250.00		N/A	N/A	✓

Sample Name	G1663-FS(0)	Injection Vial	17
Sample ID	CBD-AOA-SW11-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 8:54:35 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298 SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	689851.57	722.03	3693.8	False	13C2-PFDA	876927.48	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	128187.70	2719.06	884.9	False	13C4-PFOS	66173.59	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	111081.81	2468.83	903.2	False	13C4-PFOS	66173.59	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	347608.33	483.45	563.8	False	13C2-PFOA	566179.12	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	267338.45	376.92	785.7	False	13C2-PFOA	566179.12	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	628614.34	682.51	1241.2	False	13C2-PFOA	566179.12	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	302595.98	812.10	1131.2	False	13C4-PFOS	66173.59	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	783889.95	929.73	10421.7	False	13C2-PFDA	876927.48	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	644409.03	843.34	2941.7	False	13C2-PFDA	876927.48	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	333370.41	406.70	5053.0	False	13C2-PFDA	876927.48	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	126668.38	1701.71	1271.8	False	13C4-PFOS	66173.59	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	67303.09	1119.82	346.7	False	13C4-PFOS	66173.59	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	56907.61	990.84	283.8	False	13C4-PFOS	66173.59	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	300229.15	994.09	681.0	False	13C2-PFOA	566179.12	1250.00		N/A	N/A	✓

Sample Name	G1644-FS(0)	Injection Vial	6
Sample ID	CBD-AOA-SW07-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 6:59:33 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.63	788428.04	844.36	4862.6	False	13C2-PFDA	857035.93	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.15	135401.26	1882.67	804.9	False	13C4-PFOS	100950.14	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.32	119739.03	1744.46	1167.3	False	13C4-PFOS	100950.14	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.58	327652.73	478.44	796.1	False	13C2-PFOA	539261.38	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.91	380158.82	562.74	1133.5	False	13C2-PFOA	539261.38	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.28	660530.10	752.96	1184.2	False	13C2-PFOA	539261.38	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.65	458672.14	806.91	1249.2	False	13C4-PFOS	100950.14	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	726513.39	881.68	4816.6	False	13C2-PFDA	857035.93	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.33	650660.69	871.28	3486.7	False	13C2-PFDA	857035.93	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.12	512457.44	639.68	4114.7	False	13C2-PFDA	857035.93	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.33	96541.81	850.18	1331.1	False	13C4-PFOS	100950.14	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	112597.76	1228.06	576.9	False	13C4-PFOS	100950.14	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	89738.05	1024.20	348.5	False	13C4-PFOS	100950.14	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.68	261023.98	907.42	945.8	False	13C2-PFOA	539261.38	1250.00		N/A	N/A	✓

Sample Name	G1645-FS(0)	Injection Vial	7
Sample ID	CBD-AOA-SW05-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/3/2020 7:10:00 PM	Data File	AE_11032020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1298_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C2-PFDoA	615.0 / 570.0	3.61	792058.06	715.67	3895.5	False	13C2-PFDA	1015793.36	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	125017.05	1668.54	796.7	False	13C4-PFOS	105169.90	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	117841.27	1647.93	969.8	False	13C4-PFOS	105169.90	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	334353.45	436.17	756.0	False	13C2-PFOA	603622.55	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	422993.02	559.39	977.6	False	13C2-PFOA	603622.55	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	745158.56	758.86	1521.3	False	13C2-PFOA	603622.55	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	500808.68	845.69	1515.3	False	13C4-PFOS	105169.90	1195.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	839660.28	859.73	4224.0	False	13C2-PFDA	1015793.36	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	696512.67	786.91	3674.2	False	13C2-PFDA	1015793.36	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	340191.22	358.28	4894.9	False	13C2-PFDA	1015793.36	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	105713.69	893.60	1236.0	False	13C4-PFOS	105169.90	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	120550.88	1262.05	518.9	False	13C4-PFOS	105169.90	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	97225.04	1065.13	311.6	False	13C4-PFOS	105169.90	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	246780.53	766.43	734.5	False	13C2-PFOA	603622.55	1250.00		N/A	N/A	✓

Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	PERCENT_MOISTURE	PERCENT_LIPID	Chem_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	Final_Flag
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			Perfluorooctanoic acid (PFOA)	335-67-1	127	127	NG L			
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			Perfluorooctanoic acid (PFOA)	335-67-1	243	243	NG L			
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			Perfluorododecanoic acid (PFDA)	335-76-2	5.22	5.22	NG L			
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			Perfluoroundecanoic acid (PFUnA)	2058-94-8	16.5	16.5	NG L			
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			Perfluorododecanoic acid (PFDoA)	307-55-1	0.48	0.48	NG L	U	U	U
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			Perfluorotridecanoic acid (PFTriDA)	72629-94-8	0.48	0.48	NG L	U	U	U
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			Perfluorotetradecanoic acid (PFTeDA)	376-06-7	1.92	1.92	NG L	U	U	U
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	19.5	19.5	NG L			
		20201021	11:47:00	20201103	01:04:40	G1645-FS	5	3			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	282	282	NG L	D		
		20201021	11:47:00	20201103	19:20:27	G1645-FS	31.25	5			Perfluorooctane Sulfonate (PFOS)	1763-23-1	1230	1230	NG L	D		
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.48	0.48	NG L	U	U	U
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			4,8-dioxo-3H-perfluorooctanoic acid (ADONA)	919005-14-4	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			11-chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	0.48	0.48	NG L	U	U	U
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			13C5-PFHxA	BDO-2217	33	33	PCT_REC	N		
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			13C4-PFHpA	BDO-2218	41	41	PCT_REC	N		
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			13C8-PFOA	BDO-2219	53	53	PCT_REC	N		
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			13C9-PFNA	BDO-2221	65	65	PCT_REC	N		
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			13C6-PFDA	BDO-2222	68	68	PCT_REC	N		
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			13C7-PFUnA	BDO-2223	61	61	PCT_REC	N		
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			13C2-PFDoA	BDO-2112	54	54	PCT_REC	N		
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			13C2-PFTeDA	BDO-2224	22	22	PCT_REC	N		
		20201021	11:47:00	20201103	19:20:27	G1645-FS	31.25	5			d3-MeFOSAA	BDO-1838	83	83	PCT_REC	N		
		20201021	11:47:00	20201103	19:20:27	G1645-FS	31.25	5			d5-EtFOSAA	BDO-1839	95	95	PCT_REC	N		
		20201021	11:47:00	20201103	19:20:27	G1645-FS	31.25	5			13C3-PFBS	BDO-2226	88	88	PCT_REC	N		
		20201021	11:47:00	20201103	19:20:27	G1645-FS	31.25	5			13C3-PFHxS	BDO-2227	93	93	PCT_REC	N		
		20201021	11:47:00	20201103	19:20:27	G1645-FS	31.25	5			13C8-PFOS	BDO-2228	98	98	PCT_REC	N		
		20201021	11:47:00	20201103	00:54:10	G1645-FS	1	1			13C3-HFPO-DA	BDO-2276	62	62	PCT_REC	N		
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluorohexanoic acid (PFHxA)	307-24-4	34.3	34.3	NG L		J	J
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluoroheptanoic acid (PFHpA)	375-85-9	17.9	17.9	NG L		J	J
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluorooctanoic acid (PFOA)	335-67-1	80.4	80.4	NG L			
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluorooctanoic acid (PFOA)	335-67-1	23.2	23.2	NG L			
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluorodecanoic acid (PFDA)	335-76-2	0.28	0.28	NG L	J	J	J
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluoroundecanoic acid (PFUnA)	2058-94-8	0.69	0.69	NG L	J	J	J
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluorododecanoic acid (PFDoA)	307-55-1	0.5	0.5	NG L	U	U	U
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluorotridecanoic acid (PFTriDA)	72629-94-8	0.5	0.5	NG L	U	U	U
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluorotetradecanoic acid (PFTeDA)	376-06-7	2	2	NG L	U	U	U
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	1	1	NG L	U	U	U
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	1	1	NG L	U	U	U
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	6.97	6.97	NG L			
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	6.97	6.97	NG L			
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	137	137	NG L			
		20201021	11:47:00	20201103	01:36:05	G1646-FS	5	3			Perfluorooctane Sulfonate (PFOS)	1763-23-1	137	137	NG L	D		
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.5	0.5	NG L	U	U	U
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			4,8-dioxo-3H-perfluorooctanoic acid (ADONA)	919005-14-4	1	1	NG L	U	U	U
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			11-chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	1	1	NG L	U	U	U
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	0.5	0.5	NG L	U	U	U
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			13C5-PFHxA	BDO-2217	34	34	PCT_REC	N		
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			13C4-PFHpA	BDO-2218	43	43	PCT_REC	N		
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			13C8-PFOA	BDO-2219	57	57	PCT_REC	N		
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			13C9-PFNA	BDO-2221	69	69	PCT_REC	N		
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			13C6-PFDA	BDO-2222	75	75	PCT_REC	N		
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			13C7-PFUnA	BDO-2223	73	73	PCT_REC	N		
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			13C2-PFDoA	BDO-2112	67	67	PCT_REC	N		
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			13C2-PFTeDA	BDO-2224	43	43	PCT_REC	N		
		20201021	11:47:00	20201103	01:36:05	G1646-FS	5	3			d3-MeFOSAA	BDO-1838	96	96	PCT_REC	N		
		20201021	11:47:00	20201103	01:36:05	G1646-FS	5	3			d5-EtFOSAA	BDO-1839	102	102	PCT_REC	N		
		20201021	11:47:00	20201103	01:36:05	G1646-FS	5	3			13C3-PFBS	BDO-2226	72	72	PCT_REC	N		
		20201021	11:47:00	20201103	01:36:05	G1646-FS	5	3			13C3-PFHxS	BDO-2227	78	78	PCT_REC	N		
		20201021	11:47:00	20201103	01:36:05	G1646-FS	5	3			13C8-PFOS	BDO-2228	88	88	PCT_REC	N		
		20201021	11:47:00	20201103	01:25:37	G1646-FS	1	1			13C3-HFPO-DA	BDO-2276	57	57	PCT_REC	N		
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			Perfluorohexanoic acid (PFHxA)	307-24-4	24	24	NG L	J	J	J
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			Perfluoroheptanoic acid (PFHpA)	375-85-9	10.1	10.1	NG L	J	J	J
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			Perfluorooctanoic acid (PFOA)	335-67-1	23.9	23.9	NG L	J	J	J
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			Perfluorooctanoic acid (PFOA)	335-67-1	18.6	18.6	NG L	J	J	J
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			Perfluorooctanoic acid (PFOA)	335-67-1	0.5	0.5	NG L	U	U	U
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			Perfluorodecanoic acid (PFDA)	335-76-2	0.5	0.5	NG L	U	U	U
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			Perfluoroundecanoic acid (PFUnA)	2058-94-8	0.72	0.72	NG L	J	J	J
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			Perfluorododecanoic acid (PFDoA)	307-55-1	0.5	0.5	NG L	U	U	U
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			Perfluorotridecanoic acid (PFTriDA)	72629-94-8	0.5	0.5	NG L	U	U	U
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			Perfluorotetradecanoic acid (PFTeDA)	376-06-7	2.02	2.02	NG L	U	U	U
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	1.01	1.01	NG L	U	U	U
		20201021	11:47:00	20201103	02:07:29	G1647-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6</						

Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	PERCENT_MOISTURE	PERCENT_LIPID	Chem_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	Final_Flag
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	0.36	0.36	NG L	J	J	J
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	2.17	2.17	NG L	J	J	J
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			Perfluorododecanoic Acid (PFDDa)	307-55-1	0.47	0.47	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.32	0.32	NG L	J	J	J
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.89	1.89	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.94	0.94	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.94	0.94	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	2.41	2.41	NG L	J	J	J
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	56.8	56.8	NG L		J	J
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			Perfluorooctane Sulfonate (PFOS)	1763-23-1	58.4	58.4	NG L		J	J
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.47	0.47	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			4,8-dioxo-3H-perfluorooxanonanoic acid (ADONA)	919005-14-4	0.94	0.94	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			11-chloroheptafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.94	0.94	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			9-chlorohexadecafluoro-3-oxanonone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.47	0.47	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C5-PFHxA	BDO-2217	37	37	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C4-PFHpA	BDO-2218	22	22	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C8-PFOA	BDO-2219	26	26	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C9-PFNA	BDO-2221	33	33	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C6-PFDA	BDO-2222	29	29	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C7-PFUnA	BDO-2223	24	24	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C2-PFDDa	BDO-2112	22	22	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C2-PFTeDA	BDO-2224	12	12	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			d3-MeFOSAA	BDO-1838	28	28	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			d5-EtFOSAA	BDO-1839	30	30	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C3-PFBS	BDO-2226	34	34	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C3-PFHxS	BDO-2227	34	34	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C8-PFOS	BDO-2228	32	32	PCT_REC	N		
		20201021	11:47:00	20201102	22:59:02	G1651-FS	1	1			13C3-HFPO-DA	BDO-2276	29	29	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluorohexanoic Acid (PFHxA)	307-24-4	10.6	10.6	NG L		J	J
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluoroheptanoic acid (PFHpA)	375-85-9	4.64	4.64	NG L	J	J	J
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluoroctanoic acid (PFOA)	335-67-1	11.1	11.1	NG L			
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluorononanoic acid (PFNA)	375-95-1	4.7	4.7	NG L	J	J	J
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	0.47	0.47	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.8	0.8	NG L	J	J	J
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluorododecanoic Acid (PFDDa)	307-55-1	0.47	0.47	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.47	0.47	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.89	1.89	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.94	0.94	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.94	0.94	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	3.33	3.33	NG L	J	J	J
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	56.8	56.8	NG L			
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluorooctane Sulfonate (PFOS)	1763-23-1	42.4	42.4	NG L			
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.47	0.47	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			4,8-dioxo-3H-perfluorooxanonanoic acid (ADONA)	919005-14-4	0.94	0.94	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			11-chloroheptafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.94	0.94	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			9-chlorohexadecafluoro-3-oxanonone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.47	0.47	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C5-PFHxA	BDO-2217	37	37	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C4-PFHpA	BDO-2218	48	48	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C8-PFOA	BDO-2219	61	61	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C9-PFNA	BDO-2221	72	72	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C6-PFDA	BDO-2222	75	75	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C7-PFUnA	BDO-2223	68	68	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C2-PFDDa	BDO-2112	62	62	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C2-PFTeDA	BDO-2224	41	41	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			d3-MeFOSAA	BDO-1838	98	98	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			d5-EtFOSAA	BDO-1839	100	100	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C3-PFBS	BDO-2226	56	56	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C3-PFHxS	BDO-2227	71	71	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C8-PFOS	BDO-2228	79	79	PCT_REC	N		
		20201021	11:47:00	20201102	23:09:30	G1652-FS	1	1			13C3-HFPO-DA	BDO-2276	68	68	PCT_REC	N		
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			Perfluorohexanoic Acid (PFHxA)	307-24-4	2.84	2.84	NG L	J	J	J
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			Perfluoroheptanoic acid (PFHpA)	375-85-9	1.44	1.44	NG L	J	J	J
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			Perfluoroctanoic acid (PFOA)	335-67-1	2.93	2.93	NG L	J	J	J
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			Perfluorononanoic acid (PFNA)	375-95-1	1.33	1.33	NG L	J	J	J
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	0.46	0.46	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.46	0.46	NG L	J	J	J
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			Perfluorododecanoic Acid (PFDDa)	307-55-1	0.46	0.46	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.46	0.46	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.85	1.85	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.92	0.92	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.92	0.92	NG L	U	UJ	UJ
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	1.74	1.74	NG L	J	J	J
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	19	19	NG L			
		20201021	11:47:00	20201102	23:19:58	G1654-FS	1	1										

Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	PERCENT_MOISTURE	PERCENT_LIPID	Chem_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	Final_Flag
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	0.48	0.48	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			Perfluorotridecanoic Acid (PFTeDA)	72629-94-8	0.48	0.48	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.92	1.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.48	0.48	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.38	0.38	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			Perfluorooctane Sulfonate (PFOS)	1763-23-1	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.48	0.48	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			4,8-dioxa-3H-perfluorooxanonanoic acid (ADONA)	919005-14-4	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			11-chlorooctadecafluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.48	0.48	NG L	U	U	U
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C5-PFHxA	BDO-2217	61	61				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C4-PFHpA	BDO-2218	57	57				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C8-PFOA	BDO-2219	62	62				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C9-PFNA	BDO-2221	83	83				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C6-PFDA	BDO-2222	71	71				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C7-PFuNA	BDO-2223	68	68				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C2-PFDoA	BDO-2112	65	65				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C2-PFTEdA	BDO-2224	76	76				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			d3-MeFOSAA	BDO-1838	114	114				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			d5-EtFOSAA	BDO-1839	96	96				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C3-PFBS	BDO-2226	98	98				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C3-PFHxS	BDO-2227	86	86				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C8-PFOS	BDO-2228	76	76				
		20201021	11:47:00	20201102	23:30:25	G1655-FS	1	1			13C3-HFPO-DA	BDO-2276	54	54				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluorohexanoic Acid (PFHxA)	307-24-4	1.39	1.39	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluoroheptanoic acid (PFHpA)	375-85-9	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluorooctanoic acid (PFOA)	335-67-1	1.39	1.39	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluorononanoic acid (PFNA)	375-95-1	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluoroundecanoic Acid (PFUdA)	2058-94-8	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluorotridecanoic Acid (PFTeDA)	72629-94-8	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.85	1.85	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.37	0.37	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluorooctane Sulfonate (PFOS)	1763-23-1	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			4,8-dioxa-3H-perfluorooxanonanoic acid (ADONA)	919005-14-4	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			11-chlorooctadecafluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C5-PFHxA	BDO-2217	64	64				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C4-PFHpA	BDO-2218	67	67				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C8-PFOA	BDO-2219	61	61				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C9-PFNA	BDO-2221	88	88				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C6-PFDA	BDO-2222	71	71				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C7-PFuNA	BDO-2223	70	70				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C2-PFDoA	BDO-2112	72	72				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C2-PFTEdA	BDO-2224	71	71				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			d3-MeFOSAA	BDO-1838	93	93				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			d5-EtFOSAA	BDO-1839	105	105				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C3-PFBS	BDO-2226	105	105				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C3-PFHxS	BDO-2227	89	89				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C8-PFOS	BDO-2228	81	81				
		20201021	11:47:00	20201102	23:40:54	G1656-FS	1	1			13C3-HFPO-DA	BDO-2276	65	65				
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluorohexanoic Acid (PFHxA)	307-24-4	1.39	1.39	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluoroheptanoic acid (PFHpA)	375-85-9	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluorooctanoic acid (PFOA)	335-67-1	1.39	1.39	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluorononanoic acid (PFNA)	375-95-1	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluoroundecanoic Acid (PFUdA)	2058-94-8	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluorotridecanoic Acid (PFTeDA)	72629-94-8	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.85	1.85	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.37	0.37	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluorooctane Sulfonate (PFOS)	1763-23-1	0.92	0.92	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.46	0.46	NG L	U	U	U
		20201021	11:47:00	20201102	23:51:22	G1657-FS	1	1			4,8-dioxa-3H-perfluorooxanonanoic acid (ADONA)	919005-14-4	0.					

Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	PERCENT_MOISTURE	PERCENT_LIPID	Chem_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	Final_Flag
		20201021	11:47:00	20201103	02:28:28	G1658-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.89	1.89	NG L	U	U	U
		20201021	11:47:00	20201103	02:28:28	G1658-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.94	0.94	NG L	U	U	U
		20201021	11:47:00	20201103	02:28:28	G1658-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.94	0.94	NG L	U	U	U
		20201021	11:47:00	20201103	02:28:28	G1658-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	51.1	51.1	NG L			
		20201021	11:47:00	20201103	02:59:56	G1658-FS	62.5	3			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	1700	1700	NG L	D		
		20201021	11:47:00	20201103	02:59:56	G1658-FS	62.5	3			Perfluorooctane Sulfonate (PFOS)	1763-23-1	4960	4960	NG L	D		
		20201021	11:47:00	20201103	02:28:28	G1658-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.47	0.47	NG L	U	U	U
		20201021	11:47:00	20201103	02:28:28	G1658-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.94	0.94	NG L	U	U	U
		20201021	11:47:00	20201103	02:28:28	G1658-FS	1	1			11-chlorooctadecafluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.94	0.94	NG L	U	U	U
		20201021	11:47:00	20201103	02:28:28	G1658-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.47	0.47	NG L	U	U	U
		20201021	11:47:00	20201103	02:38:58	G1658-FS	5	2			13C5-PFHxA	BDO-2217	60	60	PCT REC			
		20201021	11:47:00	20201103	02:38:58	G1658-FS	5	2			13C4-PFHpA	BDO-2218	54	54	PCT REC			
		20201021	11:47:00	20201103	02:38:58	G1658-FS	5	2			13C8-PFOA	BDO-2219	68	68	PCT REC			
		20201021	11:47:00	20201103	02:38:58	G1658-FS	5	2			13C9-PFNA	BDO-2221	81	81	PCT REC			
		20201021	11:47:00	20201103	02:38:58	G1658-FS	5	1			13C6-PFDA	BDO-2222	74	74	PCT REC			
		20201021	11:47:00	20201103	02:38:58	G1658-FS	5	2			13C7-PFUnA	BDO-2223	87	87	PCT REC			
		20201021	11:47:00	20201103	02:28:28	G1658-FS	1	1			13C2-PFDOa	BDO-2112	71	71	PCT REC			
		20201021	11:47:00	20201103	02:28:28	G1658-FS	1	1			13C2-PFTEdA	BDO-2224	56	56	PCT REC			
		20201021	11:47:00	20201103	02:59:56	G1658-FS	62.5	3			d3-MeFOSAA	BDO-1838	93	93	PCT REC			
		20201021	11:47:00	20201103	02:59:56	G1658-FS	62.5	3			d5-EtFOSAA	BDO-1839	94	94	PCT REC			
		20201021	11:47:00	20201103	02:59:56	G1658-FS	62.5	3			13C3-PFBS	BDO-2226	90	90	PCT REC			
		20201021	11:47:00	20201103	02:59:56	G1658-FS	62.5	3			13C3-PFHxS	BDO-2227	101	101	PCT REC			
		20201021	11:47:00	20201103	02:59:56	G1658-FS	62.5	3			13C8-PFOS	BDO-2228	95	95	PCT REC			
		20201021	11:47:00	20201103	02:38:58	G1658-FS	5	2			13C3-HFPO-DA	BDO-2276	66	66	PCT REC			
		20201021	11:47:00	20201103	04:13:11	G1661-FS	5	3			Perfluorohexanoic Acid (PFHxA)	307-24-4	392	392	NG L	D		
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			Perfluoroheptanoic acid (PFHpA)	375-85-9	305	305	NG L	D		
		20201021	11:47:00	20201103	04:23:40	G1661-FS	25	5			Perfluorooctanoic acid (PFOA)	335-67-1	521	521	NG L	D		
		20201021	11:47:00	20201103	04:13:11	G1661-FS	5	3			Perfluorononanoic acid (PFNA)	375-95-1	416	416	NG L	D		
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			Perfluorodecanoic acid (PFDA)	335-76-2	40.2	40.2	NG L			
		20201021	11:47:00	20201103	04:13:11	G1661-FS	5	3			Perfluoroundecanoic acid (PFUnA)	2058-94-8	112	112	NG L	D		
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			Perfluorododecanoic acid (PFDOa)	307-55-1	1.51	1.51	NG L	J	J	J
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			Perfluorotridecanoic acid (PFTrDA)	72629-94-8	30.8	30.8	NG L			
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			Perfluorotetradecanoic acid (PFTeDA)	376-06-7	1.92	1.92	NG L	U	UJ	UJ
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	51.2	51.2	NG L			
		20201021	11:47:00	20201103	04:23:40	G1661-FS	25	5			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	1520	1520	NG L	D		
		20201021	11:47:00	20201103	04:34:08	G1661-FS	62.5	7			Perfluorooctane Sulfonate (PFOS)	1763-23-1	4140	4140	NG L	D		
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.48	0.48	NG L	U	U	U
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			11-chlorooctadecafluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.96	0.96	NG L	U	U	U
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.48	0.48	NG L	U	U	U
		20201021	11:47:00	20201103	04:23:40	G1661-FS	25	5			13C5-PFHxA	BDO-2217	75	75	PCT REC			
		20201021	11:47:00	20201103	04:23:40	G1661-FS	25	5			13C4-PFHpA	BDO-2218	75	75	PCT REC			
		20201021	11:47:00	20201103	04:23:40	G1661-FS	25	5			13C8-PFOA	BDO-2219	71	71	PCT REC			
		20201021	11:47:00	20201103	04:23:40	G1661-FS	25	5			13C9-PFNA	BDO-2221	95	95	PCT REC			
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			13C6-PFDA	BDO-2222	69	69	PCT REC			
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			13C7-PFUnA	BDO-2223	66	66	PCT REC			
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			13C2-PFDOa	BDO-2112	43	43	PCT REC	N		
		20201021	11:47:00	20201103	04:02:44	G1661-FS	1	1			13C2-PFTEdA	BDO-2224	6	6	PCT REC	N		
		20201021	11:47:00	20201103	04:34:08	G1661-FS	62.5	7			d3-MeFOSAA	BDO-1838	97	97	PCT REC			
		20201021	11:47:00	20201103	04:34:08	G1661-FS	62.5	7			d5-EtFOSAA	BDO-1839	101	101	PCT REC			
		20201021	11:47:00	20201103	04:34:08	G1661-FS	62.5	7			13C3-PFBS	BDO-2226	91	91	PCT REC			
		20201021	11:47:00	20201103	04:34:08	G1661-FS	62.5	7			13C3-PFHxS	BDO-2227	101	101	PCT REC			
		20201021	11:47:00	20201103	04:34:08	G1661-FS	62.5	7			13C8-PFOS	BDO-2228	95	95	PCT REC			
		20201021	11:47:00	20201103	04:23:40	G1661-FS	25	5			13C3-HFPO-DA	BDO-2276	61	61	PCT REC			
		20201021	11:47:00	20201103	04:55:08	G1663-FS	5	2			Perfluorohexanoic Acid (PFHxA)	307-24-4	452	452	NG L	D		
		20201021	11:47:00	20201103	04:55:08	G1663-FS	5	2			Perfluoroheptanoic acid (PFHpA)	375-85-9	365	365	NG L	D		
		20201021	11:47:00	20201103	05:05:38	G1663-FS	12.5	3			Perfluorooctanoic acid (PFOA)	335-67-1	550	550	NG L	D		
		20201021	11:47:00	20201103	04:55:08	G1663-FS	5	2			Perfluorononanoic acid (PFNA)	375-95-1	354	354	NG L	D		
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			Perfluorodecanoic acid (PFDA)	335-76-2	32.1	32.1	NG L			
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			Perfluoroundecanoic acid (PFUnA)	2058-94-8	81.4	81.4	NG L	J	J	J
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			Perfluorododecanoic acid (PFDOa)	307-55-1	1.75	1.75	NG L	J	J	J
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			Perfluortridecanoic acid (PFTrDA)	72629-94-8	23.4	23.4	NG L	U	U	U
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			Perfluorotetradecanoic acid (PFTeDA)	376-06-7	1.89	1.89	NG L	U	UJ	UJ
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.94	0.94	NG L	U	U	U
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.94	0.94	NG L	U	U	U
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	45	45	NG L			
		20201021	11:47:00	20201103	05:16:05	G1663-FS	31.25	4			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	1760	1760	NG L	D		
		20201021	11:47:00	20201103	21:05:03	G1663-FS	156.25	5			Perfluorooctane Sulfonate (PFOS)	1763-23-1	4370	4370	NG L	D		
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.47	0.47	NG L	U	U	U
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.94	0.94	NG L	U	U	U
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			11-chlorooctadecafluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.94	0.94	NG L	U	U	U
		20201021	11:47:00	20201103	04:44:38	G1663-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.47	0.47	NG L	U	U	U
		20201021																

Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	PERCENT_MOISTURE	PERCENT_LIPID	Chem_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	Final_Flag
		20201021	11:47:00	20201103	05:47:28	G1664-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.92	0.92	NG_L	U	U	U
		20201021	11:47:00	20201103	05:47:28	G1664-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	51.2	51.2	NG_L	U		
		20201021	11:47:00	20201103	06:18:56	G1664-FS	62.5	4			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	1730	1730	NG_L	D		
		20201021	11:47:00	20201103	06:18:56	G1664-FS	62.5	4			Perfluorooctane Sulfonate (PFOS)	1763-23-1	3820	3820	NG_L	D		
		20201021	11:47:00	20201103	05:47:28	G1664-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.46	0.46	NG_L	U	U	U
		20201021	11:47:00	20201103	05:47:28	G1664-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.92	0.92	NG_L	U	U	U
		20201021	11:47:00	20201103	05:47:28	G1664-FS	1	1			11-chlorooctadecafluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.92	0.92	NG_L	U	U	U
		20201021	11:47:00	20201103	05:47:28	G1664-FS	1	1			9-chlorohexadecafluoro-3-oxanonone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.46	0.46	NG_L	U	U	U
		20201021	11:47:00	20201103	06:08:26	G1664-FS	12.5	3			13C5-PFHxA	BDO-2217	79	79			PCT_REC	
		20201021	11:47:00	20201103	06:08:26	G1664-FS	12.5	3			13C4-PFHxA	BDO-2218	68	68			PCT_REC	
		20201021	11:47:00	20201103	06:08:26	G1664-FS	12.5	3			13C8-PFOA	BDO-2219	80	80			PCT_REC	
		20201021	11:47:00	20201103	06:08:26	G1664-FS	12.5	3			13C9-PFNA	BDO-2221	88	88			PCT_REC	
		20201021	11:47:00	20201103	05:47:28	G1664-FS	1	1			13C6-PFDA	BDO-2222	73	73			PCT_REC	
		20201021	11:47:00	20201103	05:47:28	G1664-FS	1	1			13C7-PFuNA	BDO-2223	77	77			PCT_REC	
		20201021	11:47:00	20201103	05:47:28	G1664-FS	1	1			13C2-PFDoA	BDO-2112	61	61			PCT_REC	
		20201021	11:47:00	20201103	05:47:28	G1664-FS	1	1			13C2-PFTEdA	BDO-2224	25	25			PCT_REC	N
		20201021	11:47:00	20201103	06:18:56	G1664-FS	62.5	4			d3-MeFOSAA	BDO-1838	91	91			PCT_REC	
		20201021	11:47:00	20201103	06:18:56	G1664-FS	62.5	4			d5-EtFOSAA	BDO-1839	89	89			PCT_REC	
		20201021	11:47:00	20201103	06:18:56	G1664-FS	62.5	4			13C3-PFBS	BDO-2226	81	81			PCT_REC	
		20201021	11:47:00	20201103	06:18:56	G1664-FS	62.5	4			13C3-PFHxS	BDO-2227	89	89			PCT_REC	
		20201021	11:47:00	20201103	06:18:56	G1664-FS	62.5	4			13C8-PFOS	BDO-2228	92	92			PCT_REC	
		20201021	11:47:00	20201103	06:08:26	G1664-FS	12.5	3			13C3-HFPO-DA	BDO-2276	67	67			PCT_REC	
		20201021	11:47:00	20201103	06:39:53	G1665-FS	5	2			Perfluorohexanoic Acid (PFHxA)	307-24-4	363	363	NG_L	D		
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			Perfluoroheptanoic acid (PFHxA)	375-85-9	295	295	NG_L	U		
		20201021	11:47:00	20201103	06:39:53	G1665-FS	5	2			Perfluorooctanoic acid (PFOA)	335-67-1	413	413	NG_L	D		
		20201021	11:47:00	20201103	06:39:53	G1665-FS	5	2			Perfluorononanoic acid (PFNA)	375-95-1	495	495	NG_L	D		
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	27.6	27.6	NG_L	U		
		20201021	11:47:00	20201103	06:39:53	G1665-FS	5	2			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	99	99	NG_L	D	J	J
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	0.41	0.41	NG_L	J	J	J
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			Perfluorotridecanoic Acid (PFTdA)	72629-94-8	4	4	NG_L	J	J	J
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			Perfluorotetradecanoic Acid (PFTEdA)	376-06-7	1.82	1.82	NG_L	U	U	U
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.9	0.9	NG_L	U	U	U
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.9	0.9	NG_L	U	U	U
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	64.1	64.1	NG_L	U		
		20201021	11:47:00	20201103	07:00:53	G1665-FS	31.25	3			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	1130	1130	NG_L	D		
		20201021	11:47:00	20201103	21:26:00	G1665-FS	156.25	4			Perfluorooctane Sulfonate (PFOS)	1763-23-1	4050	4050	NG_L	D		
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.45	0.45	NG_L	U	U	U
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.9	0.9	NG_L	U	U	U
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			11-chlorooctadecafluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.9	0.9	NG_L	U	U	U
		20201021	11:47:00	20201103	06:29:25	G1665-FS	5	2			9-chlorohexadecafluoro-3-oxanonone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.45	0.45	NG_L	U	U	U
		20201021	11:47:00	20201103	06:39:53	G1665-FS	5	2			13C5-PFHxA	BDO-2217	54	54			PCT_REC	
		20201021	11:47:00	20201103	06:39:53	G1665-FS	5	2			13C4-PFHxA	BDO-2218	50	50			PCT_REC	
		20201021	11:47:00	20201103	06:39:53	G1665-FS	5	2			13C8-PFOA	BDO-2219	65	65			PCT_REC	
		20201021	11:47:00	20201103	06:39:53	G1665-FS	5	2			13C9-PFNA	BDO-2221	76	76			PCT_REC	
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			13C6-PFDA	BDO-2222	80	80			PCT_REC	
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			13C7-PFuNA	BDO-2223	84	84			PCT_REC	
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			13C2-PFDoA	BDO-2112	78	78			PCT_REC	
		20201021	11:47:00	20201103	06:29:25	G1665-FS	1	1			13C2-PFTEdA	BDO-2224	52	52			PCT_REC	
		20201021	11:47:00	20201103	21:26:00	G1665-FS	156.25	4			d3-MeFOSAA	BDO-1838	86	86			PCT_REC	
		20201021	11:47:00	20201103	21:26:00	G1665-FS	156.25	4			d5-EtFOSAA	BDO-1839	93	93			PCT_REC	
		20201021	11:47:00	20201103	21:26:00	G1665-FS	156.25	4			13C3-PFBS	BDO-2226	80	80			PCT_REC	
		20201021	11:47:00	20201103	21:26:00	G1665-FS	156.25	4			13C3-PFHxS	BDO-2227	95	95			PCT_REC	
		20201021	11:47:00	20201103	21:26:00	G1665-FS	156.25	4			13C8-PFOS	BDO-2228	89	89			PCT_REC	
		20201021	11:47:00	20201103	06:39:53	G1665-FS	5	2			13C3-HFPO-DA	BDO-2276	60	60			PCT_REC	
		20201021	11:47:00	20201103	07:43:04	G1666MS-FS	5	2			Perfluorohexanoic Acid (PFHxA)	307-24-4	98	98			PCT_REC	
		20201021	11:47:00	20201103	07:43:04	G1666MS-FS	5	2			Perfluoroheptanoic acid (PFHxA)	375-85-9	0	0			PCT_REC	
		20201021	11:47:00	20201103	07:43:04	G1666MS-FS	5	2			Perfluorooctanoic acid (PFOA)	335-67-1	71	71			PCT_REC	
		20201021	11:47:00	20201103	07:43:04	G1666MS-FS	5	2			Perfluorononanoic acid (PFNA)	375-95-1	134	134			PCT_REC	
		20201021	11:47:00	20201103	07:32:35	G1666MS-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	86	86			PCT_REC	
		20201021	11:47:00	20201103	07:43:04	G1666MS-FS	5	2			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	22	22			PCT_REC	
		20201021	11:47:00	20201103	07:32:35	G1666MS-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	99	99			PCT_REC	
		20201021	11:47:00	20201103	07:32:35	G1666MS-FS	1	1			Perfluorotridecanoic Acid (PFTdA)	72629-94-8	242	242			PCT_REC	
		20201021	11:47:00	20201103	07:32:35	G1666MS-FS	1	1			Perfluorotetradecanoic Acid (PFTEdA)	376-06-7	101	101			PCT_REC	
		20201021	11:47:00	20201103	07:32:35	G1666MS-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	104	104			PCT_REC	
		20201021	11:47:00	20201103	07:32:35	G1666MS-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	89	89			PCT_REC	
		20201021	11:47:00	20201103	07:32:35	G1666MS-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	88	88			PCT_REC	

Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	PERCENT_MOISTURE	PERCENT_LIPID	Chem_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	Final_Flag
		20201021	11:47:00	20201103	08:45:56	G1667MSD-FS	31.25	3			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0	0	PCT_REC			
		20201021	11:47:00	20201103	22:28:49	G1667MSD-FS	78.13	4			Perfluorooctane Sulfonate (PFOS)	1763-23-1	0	0	PCT_REC			
		20201021	11:47:00	20201103	08:14:30	G1667MSD-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	75	75	PCT_REC			
		20201021	11:47:00	20201103	08:14:30	G1667MSD-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	72	72	PCT_REC			
		20201021	11:47:00	20201103	08:14:30	G1667MSD-FS	1	1			11-chloroheicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	132	132	PCT_REC			
		20201021	11:47:00	20201103	08:14:30	G1667MSD-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	89	89	PCT_REC			
		20201021	11:47:00	20201103	08:24:58	G1667MSD-FS	5	2			13C5-PFHxA	BDO-2217	60	60	PCT_REC			
		20201021	11:47:00	20201103	08:24:58	G1667MSD-FS	5	2			13C4-PFHpA	BDO-2218	54	54	PCT_REC			
		20201021	11:47:00	20201103	08:24:58	G1667MSD-FS	5	2			13C8-PFOA	BDO-2219	69	69	PCT_REC			
		20201021	11:47:00	20201103	08:24:58	G1667MSD-FS	5	2			13C9-PFNA	BDO-2221	76	76	PCT_REC			
		20201021	11:47:00	20201103	08:14:30	G1667MSD-FS	1	1			13C6-PFDA	BDO-2222	68	68	PCT_REC			
		20201021	11:47:00	20201103	08:14:30	G1667MSD-FS	1	1			13C7-PFUnA	BDO-2223	52	52	PCT_REC			
		20201021	11:47:00	20201103	08:14:30	G1667MSD-FS	1	1			13C2-PFDoA	BDO-2112	32	32	PCT_REC	N		
		20201021	11:47:00	20201103	08:14:30	G1667MSD-FS	1	1			13C2-PFTeDA	BDO-2224	4	4	PCT_REC	N		
		20201021	11:47:00	20201103	22:28:49	G1667MSD-FS	78.13	4			d3-MeFOSAA	BDO-1838	91	91	PCT_REC			
		20201021	11:47:00	20201103	22:28:49	G1667MSD-FS	78.13	4			d5-EtFOSAA	BDO-1839	93	93	PCT_REC			
		20201021	11:47:00	20201103	22:28:49	G1667MSD-FS	78.13	4			13C3-PFBs	BDO-2226	87	87	PCT_REC			
		20201021	11:47:00	20201103	22:28:49	G1667MSD-FS	78.13	4			13C3-PFHxS	BDO-2227	89	89	PCT_REC			
		20201021	11:47:00	20201103	22:28:49	G1667MSD-FS	78.13	4			13C8-PFOS	BDO-2228	96	96	PCT_REC			
		20201021	11:47:00	20201103	08:24:58	G1667MSD-FS	5	2			13C3-HFPO-DA	BDO-2276	62	62	PCT_REC			
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			Perfluorohexanoic Acid (PFHxA)	307-24-4	190	190	NG_L			
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			Perfluoroheptanoic acid (PFHpA)	375-85-9	223	223	NG_L			
		20201021	11:47:00	20201103	03:20:52	G1668-FS	5	3			Perfluorooctanoic acid (PFOA)	335-67-1	140	140	NG_L	D		
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			Perfluorononanoic acid (PFNA)	375-95-1	120	120	NG_L			
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	20	20	NG_L			
		20201021	11:47:00	20201103	03:20:52	G1668-FS	5	3			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	185	185	NG_L	D		
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	3.14	3.14	NG_L	J	J	J
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			Perfluorotridecanoic Acid (PFTeDA)	72629-94-8	13.9	13.9	NG_L			
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	2	2	NG_L	U	UJ	UJ
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	1	1	NG_L	U	U	U
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	1	1	NG_L	U	U	U
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	18.4	18.4	NG_L			
		20201021	11:47:00	20201103	03:20:52	G1668-FS	5	3			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	301	301	NG_L	D		
		20201021	11:47:00	20201103	22:49:45	G1668-FS	62.5	6			Perfluorooctane Sulfonate (PFOS)	1763-23-1	2990	2990	NG_L	D		
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.5	0.5	NG_L	U	U	U
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	1	1	NG_L	U	U	U
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			11-chloroheicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	1	1	NG_L	U	U	U
		20201021	11:47:00	20201103	03:20:52	G1668-FS	5	3			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.5	0.5	NG_L	U	U	U
		20201021	11:47:00	20201103	03:20:52	G1668-FS	5	3			13C5-PFHxA	BDO-2217	54	54	PCT_REC			
		20201021	11:47:00	20201103	03:20:52	G1668-FS	5	3			13C4-PFHpA	BDO-2218	61	61	PCT_REC			
		20201021	11:47:00	20201103	03:20:52	G1668-FS	5	3			13C8-PFOA	BDO-2219	68	68	PCT_REC			
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			13C9-PFNA	BDO-2221	55	55	PCT_REC			
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			13C6-PFDA	BDO-2222	63	63	PCT_REC			
		20201021	11:47:00	20201103	03:20:52	G1668-FS	5	3			13C7-PFUnA	BDO-2223	79	79	PCT_REC			
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			13C2-PFDoA	BDO-2112	40	40	PCT_REC	N		
		20201021	11:47:00	20201103	03:10:24	G1668-FS	1	1			13C2-PFTeDA	BDO-2224	22	22	PCT_REC	N		
		20201021	11:47:00	20201103	22:49:45	G1668-FS	62.5	6			d3-MeFOSAA	BDO-1838	86	86	PCT_REC			
		20201021	11:47:00	20201103	22:49:45	G1668-FS	62.5	6			d5-EtFOSAA	BDO-1839	90	90	PCT_REC			
		20201021	11:47:00	20201103	22:49:45	G1668-FS	62.5	6			13C3-PFBs	BDO-2226	80	80	PCT_REC			
		20201021	11:47:00	20201103	22:49:45	G1668-FS	62.5	6			13C3-PFHxS	BDO-2227	80	80	PCT_REC			
		20201021	11:47:00	20201103	22:49:45	G1668-FS	62.5	6			13C8-PFOS	BDO-2228	85	85	PCT_REC			
		20201021	11:47:00	20201103	03:20:52	G1668-FS	5	3			13C3-HFPO-DA	BDO-2276	56	56	PCT_REC			

**DATA VALIDATION SUMMARY REPORT
NAVAL RESEARCH LABORATORY, MARYLAND**

Client: CH2M HILL, Inc., Herndon, Virginia
 SDG: 20-1298
 Laboratory: Battelle Norwell Operations, Norwell, Massachusetts
 Site: Naval Research Laboratory (NRL), Chesapeake Beach, Maryland
 Date: January 10, 2021

PFAS			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	CBD-AOA-SW07-1020	G1644-FS	Water
2	CBD-AOA-SW05-1020	G1645-FS	Water
3	CBD-AOA-SW03-1020	G1646-FS	Water
4	CBD-AOA-SW04-1020	G1647-FS	Water
5	CBD-AOA-SW02-1020	G1651-FS	Water
6	CBD-AOA-SW02P-1020	G1652-FS	Water
7	CBD-AOA-SW01-1020	G1654-FS	Water
8	CBD-AOA-FB03-101320	G1655-FS	Water
9	CBD-AOA-EB03-101320-SW	G1656-FS	Water
10	CBD-AOA-EB03-101320-SD	G1657-FS	Water
11	CBD-AOA-SW08-1020	G1658-FS	Water
12	CBD-AOA-SW06-1020	G1661-FS	Water
13	CBD-AOA-SW11-1020	G1663-FS	Water
14	CBD-AOA-SW11P-1020	G1664-FS	Water
15	CBD-AOA-SW10-1020	G1665-FS	Water
15MS	CBD-AOA-SW10-1020MS	G1666-FSMS	Water
15MSD	CBD-AOA-SW10-1020MSD	G1667-FSMSD	Water
16	CBD-AOA-SW09-1020	G1668-FS	Water

A Stage 2B/4 data validation was performed on the analytical data for thirteen water samples, two aqueous equipment blank samples, and one aqueous field blank sample collected on October 13, 2020 by CH2M HILL at the Naval Research Laboratory Site 10 Fire Testing Area in Maryland. The samples were analyzed under the Analysis of Poly and Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS).

Specific method references are as follows:

Analysis
PFAS

Method References
Battelle SOP 5-369-08

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods, the Final Sampling and Analysis Plan Site 10 Fire Testing Area Site Inspection, Naval Research Laboratory, August 2020, and the DoD Final General Data Validation Guidelines, November 2019, including the following Module:

- The Department of Defense (DoD) Data Validation Guidelines Module 3, Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by Quality Systems Manual for Environmental Laboratories (QSM) Table B-15, May 2020;
- 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
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Laboratory Fortified Blank (LFB)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

A full (Stage 2B/4) 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 serious deficiencies of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Per- and Polyfluoroalkyl Substances (PFAS)

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.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients criteria were met.

Continuing Calibration

- All percent recovery (%R) criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC sample results are summarized below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
CBD-AOA-FB03-101320	None - ND	-	-	-
CBD-AOA-EB01-101320-SW	None - ND	-	-	-
CBD-AOA-EB01-101320-SD	None - ND	-	-	-

Surrogate Spike Recoveries

- Several samples exhibited surrogates recoveries outside of QC limits. See summary pages behind Form Is for specifics. All associated compounds were qualified estimated (J/UJ).

Laboratory Fortified Blank (LFB)

- The LFB samples exhibited acceptable percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values except for the following.

MS/MSD Sample ID	Compound	MS %R/MSD %R/ RPD	Qualifier
15	PFHxA	OK/0%/200	None - 4X Rule Applies
	PFHpA	0%/0%/200	None - 4X Rule Applies
	PFOA	OK/0%/200	None - 4X Rule Applies
	PFNA	0%/0%/200	None - 4X Rule Applies
	PFUnA	22%/0%/200	J
	PFTrDA	242%/267%/OK	J
	PFHxS	470%/0%/200	None - 4X Rule Applies
	PFOS	22%/0%/200	None - 4X Rule Applies

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several compounds were analyzed at a dilution due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was unacceptable for PFUnA in one field duplicate pair. These results were qualified as estimated (J).

Compound	CBD-AOA-SW02-1020 ng/L	CBD-AOA-SW02P-1020 ng/L	RPD	Qualifier
PFHxA	9.51	10.6	11%	None
PFHpA	4.36	4.64	6%	
PFOA	10.1	11.1	9%	
PFNA	5.16	4.70	9%	
PFDA	0.369	0.472U	NC	
PFUnA	2.17	0.801	92%	None - <5X LOQ
PFTrDA	0.329	0.472U	NC	None
PFBS	2.41	3.33	32%	None - <5X LOQ
PFHxS	56.8	56.8	0%	None
PFOS	58.4	42.4	32%	None - <5X LOQ

Compound	CBD-AOA-SW11-1020 ng/L	CBD-AOA-SW11P-1020 ng/L	RPD	Qualifier
PFHxA	452	494	9%	None
PFHpA	365	360	1%	
PFOA	550	578	5%	
PFNA	354	443	22%	
PFDA	32.1	38.6	18%	
PFUnA	81.4	114	33%	J
PFDoA	1.75	1.69	3%	None
PFTtDA	23.4	26.4	12%	
PFBS	45.0	51.2	13%	
PFHxS	1760	1730	2%	
PFOS	4370	3820	13%	

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: 1/14/21

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	<p>The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided.</p> <p>Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.</p>



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW07-1020

Battelle ID G1644-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.265
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	124 J	G1644-FS(0)	1.000	11/3/2020	0.497	1.42	4.72
PFHxA	375-85-9	59.5 J	G1644-FS(0)	1.000	11/3/2020	0.248	0.943	4.72
PFOA	335-67-1	124	G1644-FS(0)	1.000	11/3/2020	0.482	1.42	4.72
PFNA	375-95-1	226	G1644-FS(0)	1.000	11/3/2020	0.292	0.943	4.72
PFDA	335-76-2	4.35 J	G1644-FS(0)	1.000	11/3/2020	0.134	0.472	4.72
PFUnA	2058-94-8	13.7	G1644-FS(0)	1.000	11/3/2020	0.207	0.472	4.72
PFDoA	307-55-1	0.472 U	G1644-FS(0)	1.000	11/3/2020	0.181	0.472	4.72
PFTrDA	72629-94-8	0.472 U	G1644-FS(0)	1.000	11/3/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89 U	G1644-FS(0)	1.000	11/3/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	0.943 U	G1644-FS(0)	1.000	11/3/2020	0.330	0.943	4.72
NEFOSAA	2991-50-6	0.943 U	G1644-FS(0)	1.000	11/3/2020	0.472	0.943	4.72
PFBS	375-73-5	23.3	G1644-FS(0)	1.000	11/3/2020	0.136	0.472	4.72
PFHxS	355-46-4	353	G1644-FS-D(3)	5.000	11/3/2020	0.528	1.89	23.6
PFOS	1763-23-1	1140	G1644-FS-D(5)	12.500	11/3/2020	5.15	11.8	59.0
HFPO-DA	13252-13-6	0.472 U	G1644-FS(0)	1.000	11/3/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943 U	G1644-FS(0)	1.000	11/3/2020	0.250	0.943	4.72
9CI-PF3ONS	756426-58-1	0.472 U	G1644-FS(0)	1.000	11/3/2020	0.253	0.472	4.72
11CI-PF3OUds	763051-92-9	0.943 U	G1644-FS(0)	1.000	11/3/2020	0.218	0.943	4.72

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11/10/21

Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW05-1020

Battelle ID G1645-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.260
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	128 J	G1645-FS(0)	1.000	11/3/2020	0.507	1.44	4.81
PFHpA	375-85-9	57.1 J	G1645-FS(0)	1.000	11/3/2020	0.253	0.962	4.81
PFOA	335-67-1	127	G1645-FS(0)	1.000	11/3/2020	0.491	1.44	4.81
PFNA	375-95-1	243	G1645-FS(0)	1.000	11/3/2020	0.297	0.962	4.81
PFDA	335-76-2	5.22	G1645-FS(0)	1.000	11/3/2020	0.137	0.481	4.81
PFUnA	2058-94-8	16.5	G1645-FS(0)	1.000	11/3/2020	0.211	0.481	4.81
PFDoA	307-55-1	0.481 U	G1645-FS(0)	1.000	11/3/2020	0.185	0.481	4.81
PFTeDA	72629-94-8	0.481 U	G1645-FS(0)	1.000	11/3/2020	0.148	0.481	4.81
PFTeDA	376-06-7	1.92 U J	G1645-FS(0)	1.000	11/3/2020	0.705	1.92	4.81
NMeFOSAA	2355-31-9	0.962 U	G1645-FS(0)	1.000	11/3/2020	0.337	0.962	4.81
NEtFOSAA	2991-50-6	0.962 U	G1645-FS(0)	1.000	11/3/2020	0.481	0.962	4.81
PFBS	375-73-5	19.5	G1645-FS(0)	1.000	11/3/2020	0.138	0.481	4.81
PFHxS	355-46-4	282 U	G1645-FS-D(3)	5.000	11/3/2020	0.538	1.92	24.0
PFOS	1763-23-1	1230 U	G1645-FS-D(7)	31.250	11/3/2020	13.1	30.0	150
HFPO-DA	13252-13-6	0.481 U	G1645-FS(0)	1.000	11/3/2020	0.238	0.481	4.81
Adona	919005-14-4	0.962 U	G1645-FS(0)	1.000	11/3/2020	0.255	0.962	4.81
9CI-PF3ONS	756426-58-1	0.481 U	G1645-FS(0)	1.000	11/3/2020	0.258	0.481	4.81
11CI-PF3OUds	763051-92-9	0.962 U	G1645-FS(0)	1.000	11/3/2020	0.222	0.962	4.81

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Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW03-1020

Battelle ID G1646-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.250
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	34.3 J	G1646-FS(0)	1.000	11/3/2020	0.527	1.50	5.00
PFHpA	375-85-9	17.9 J	G1646-FS(0)	1.000	11/3/2020	0.263	1.00	5.00
PFOA	335-67-1	80.4	G1646-FS(0)	1.000	11/3/2020	0.511	1.50	5.00
PFNA	375-95-1	23.2	G1646-FS(0)	1.000	11/3/2020	0.309	1.00	5.00
PFDA	335-76-2	0.283 J	G1646-FS(0)	1.000	11/3/2020	0.142	0.500	5.00
PFUnA	2058-94-8	0.699 J	G1646-FS(0)	1.000	11/3/2020	0.219	0.500	5.00
PFDoA	307-55-1	0.500 U	G1646-FS(0)	1.000	11/3/2020	0.192	0.500	5.00
PFTrDA	72629-94-8	0.500 U	G1646-FS(0)	1.000	11/3/2020	0.154	0.500	5.00
PFTeDA	376-06-7	2.00 U J	G1646-FS(0)	1.000	11/3/2020	0.733	2.00	5.00
NMeFOSAA	2355-31-9	1.00 U	G1646-FS(0)	1.000	11/3/2020	0.350	1.00	5.00
NEFOSAA	2991-50-6	1.00 U	G1646-FS(0)	1.000	11/3/2020	0.500	1.00	5.00
PFBS	375-73-5	6.97	G1646-FS(0)	1.000	11/3/2020	0.144	0.500	5.00
PFHxS	355-46-4	137	G1646-FS(0)	1.000	11/3/2020	0.112	0.400	5.00
PFOS	1763-23-1	137 U	G1646-FS-D(3)	5.000	11/3/2020	2.19	5.00	25.0
HFPO-DA	13252-13-6	0.500 U	G1646-FS(0)	1.000	11/3/2020	0.248	0.500	5.00
Adona	919005-14-4	1.00 U	G1646-FS(0)	1.000	11/3/2020	0.265	1.00	5.00
9CI-PF3ONS	756426-58-1	0.500 U	G1646-FS(0)	1.000	11/3/2020	0.268	0.500	5.00
11CI-PF3OUds	763051-92-9	1.00 U	G1646-FS(0)	1.000	11/3/2020	0.231	1.00	5.00

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 Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW03-1020
 Battelle ID G1646-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	34 N	G1646-FS(0)	11/3/2020
13C4-PFHpA	43 N	G1646-FS(0)	11/3/2020
13C8-PFOA	57	G1646-FS(0)	11/3/2020
13C9-PFNA	69	G1646-FS(0)	11/3/2020
13C6-PFDA	75	G1646-FS(0)	11/3/2020
13C7-PFUnA	73	G1646-FS(0)	11/3/2020
13C2-PFDoA	67	G1646-FS(0)	11/3/2020
13C7-PFTeDA	43	G1646-FS(0)	11/3/2020
d3-MeFOSAA	96 D	G1646-FS-D(3)	11/3/2020
d5-EtFOSAA	102 D	G1646-FS-D(3)	11/3/2020
13C3-PFBS	72 D	G1646-FS-D(3)	11/3/2020
13C3-PFHxS	78 D	G1646-FS-D(3)	11/3/2020
13C8-PFOS	88 D	G1646-FS-D(3)	11/3/2020
13C3-HFPQ-DA	57	G1646-FS(0)	11/3/2020

11/10/21
 Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW04-1020

Battelle ID G1647-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.247
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	24.0 J	G1647-FS(0)	1.000	11/3/2020	0.533	1.52	5.06
PFHpA	375-85-9	10.1 J	G1647-FS(0)	1.000	11/3/2020	0.266	1.01	5.06
PFOA	335-67-1	23.9	G1647-FS(0)	1.000	11/3/2020	0.517	1.52	5.06
PFNA	375-95-1	18.6	G1647-FS(0)	1.000	11/3/2020	0.313	1.01	5.06
PFDA	335-76-2	0.506 U	G1647-FS(0)	1.000	11/3/2020	0.144	0.506	5.06
PFUnA	2058-94-8	0.723 J	G1647-FS(0)	1.000	11/3/2020	0.222	0.506	5.06
PFDoA	307-55-1	0.506 U J	G1647-FS(0)	1.000	11/3/2020	0.194	0.506	5.06
PFTTrDA	72629-94-8	0.506 U	G1647-FS(0)	1.000	11/3/2020	0.156	0.506	5.06
PFTeDA	376-06-7	2.02 U J	G1647-FS(0)	1.000	11/3/2020	0.742	2.02	5.06
NMeFOSAA	2355-31-9	1.01 U	G1647-FS(0)	1.000	11/3/2020	0.354	1.01	5.06
NEtFOSAA	2991-50-6	1.01 U	G1647-FS(0)	1.000	11/3/2020	0.506	1.01	5.06
PFBS	375-73-5	5.57	G1647-FS(0)	1.000	11/3/2020	0.146	0.506	5.06
PFHxS	355-46-4	90.6	G1647-FS(0)	1.000	11/3/2020	0.113	0.405	5.06
PFOS	1763-23-1	165 J	G1647-FS-D(3)	5.000	11/3/2020	2.21	5.06	25.3
HFPO-DA	13252-13-6	0.506 U	G1647-FS(0)	1.000	11/3/2020	0.251	0.506	5.06
Adona	919005-14-4	1.01 U	G1647-FS(0)	1.000	11/3/2020	0.268	1.01	5.06
9Cl-PF3ONS	756426-58-1	0.506 U	G1647-FS(0)	1.000	11/3/2020	0.271	0.506	5.06
11Cl-PF3OUds	763051-92-9	1.01 U	G1647-FS(0)	1.000	11/3/2020	0.234	1.01	5.06

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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW04-1020
 Battelle ID G1647-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	<i>Recovery</i>	<i>Extract ID</i>	<i>Analysis Date</i>
13C5-PFHxA	36 N	G1647-FS(0)	11/3/2020
13C4-PFHpA	48 N	G1647-FS(0)	11/3/2020
13C8-PFOA	67	G1647-FS(0)	11/3/2020
13C9-PFNA	85	G1647-FS(0)	11/3/2020
13C6-PFDA	71	G1647-FS(0)	11/3/2020
13C7-PFUA	60	G1647-FS(0)	11/3/2020
13C2-PFDoA	46 M	G1647-FS(0)	11/3/2020
13C2-PFTeDA	18 N	G1647-FS(0)	11/3/2020
d3-MeFOSAA	87 D	G1647-FS-D(3)	11/3/2020
d5-EtFOSAA	97 D	G1647-FS-D(3)	11/3/2020
13C3-PFBS	69 D	G1647-FS-D(3)	11/3/2020
13C3-PFHxS	78 D	G1647-FS-D(3)	11/3/2020
13C8-PFOS	86 D	G1647-FS-D(3)	11/3/2020
13C3-HFPQ-DA	59	G1647-FS(0)	11/3/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW02-1020

Battelle ID G1651-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.265
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	9.51	G1651-FS(0)	1.000	11/2/2020	0.497	1.42	4.72
PFHpA	373-85-9	4.36	G1651-FS(0)	1.000	11/2/2020	0.248	0.943	4.72
PFOA	335-67-1	10.1	G1651-FS(0)	1.000	11/2/2020	0.482	1.42	4.72
PFNA	375-95-1	8.16	G1651-FS(0)	1.000	11/2/2020	0.292	0.943	4.72
PFDA	335-76-2	0.369	G1651-FS(0)	1.000	11/2/2020	0.134	0.472	4.72
PFUnA	2058-94-8	2.17	G1651-FS(0)	1.000	11/2/2020	0.207	0.472	4.72
PFDoA	307-55-1	0.472	G1651-FS(0)	1.000	11/2/2020	0.181	0.472	4.72
PFTeDA	72829-94-8	0.329	G1651-FS(0)	1.000	11/2/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89	G1651-FS(0)	1.000	11/2/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	0.943	G1651-FS(0)	1.000	11/2/2020	0.330	0.943	4.72
NETFOSAA	2991-50-6	0.943	G1651-FS(0)	1.000	11/2/2020	0.472	0.943	4.72
PFBS	375-73-5	2.41	G1651-FS(0)	1.000	11/2/2020	0.136	0.472	4.72
PFHxS	355-46-4	56.8	G1651-FS(0)	1.000	11/2/2020	0.106	0.377	4.72
PFOS	1763-23-1	58.4	G1651-FS(0)	1.000	11/2/2020	0.412	0.943	4.72
HFPO-DA	13252-13-6	0.472	G1651-FS(0)	1.000	11/2/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943	G1651-FS(0)	1.000	11/2/2020	0.250	0.943	4.72
9CI-PF3ONS	756426-58-1	0.472	G1651-FS(0)	1.000	11/2/2020	0.253	0.472	4.72
11CI-PF3OUds	763051-92-9	0.943	G1651-FS(0)	1.000	11/2/2020	0.218	0.943	4.72

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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW02-1020

Battelle ID G1651-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	17 N	G1651-FS(0)	11/2/2020
13C4-PFHxA	22 N	G1651-FS(0)	11/2/2020
13C8-PFOA	26 N	G1651-FS(0)	11/2/2020
13C9-PFNA	33 N	G1651-FS(0)	11/2/2020
13C6-PFDA	29 N	G1651-FS(0)	11/2/2020
13C7-PFUA	24 N	G1651-FS(0)	11/2/2020
13C2-PFDOA	22 N	G1651-FS(0)	11/2/2020
13C2-PFTeDA	12 N	G1651-FS(0)	11/2/2020
d3-MeFOSAA	28 N	G1651-FS(0)	11/2/2020
d5-EtFOSAA	30 N	G1651-FS(0)	11/2/2020
13C3-PFBS	34 N	G1651-FS(0)	11/2/2020
13C3-PFHxA	34 N	G1651-FS(0)	11/2/2020
13C8-PFOS	32 N	G1651-FS(0)	11/2/2020
13C3-HFPO-DA	29 N	G1651-FS(0)	11/2/2020

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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

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Client ID CBD-AOA-SW02P-1020

Battelle ID G1652-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.265
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	10.6 J	G1652-FS(0)	1.000	11/2/2020	0.497	1.42	4.72
PFHpA	375-85-9	4.64 J	G1652-FS(0)	1.000	11/2/2020	0.248	0.943	4.72
PFOA	335-67-1	11.1	G1652-FS(0)	1.000	11/2/2020	0.482	1.42	4.72
PFNA	375-95-1	4.70 J	G1652-FS(0)	1.000	11/2/2020	0.292	0.943	4.72
PFDA	335-76-2	0.472 U	G1652-FS(0)	1.000	11/2/2020	0.134	0.472	4.72
PFUnA	2058-94-8	0.801 J	G1652-FS(0)	1.000	11/2/2020	0.207	0.472	4.72
PFDoA	307-55-1	0.472 U	G1652-FS(0)	1.000	11/2/2020	0.181	0.472	4.72
PFTrDA	72829-94-8	0.472 U	G1652-FS(0)	1.000	11/2/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89 U J	G1652-FS(0)	1.000	11/2/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	0.943 U	G1652-FS(0)	1.000	11/2/2020	0.330	0.943	4.72
NEtFOSAA	2991-50-6	0.943 U	G1652-FS(0)	1.000	11/2/2020	0.472	0.943	4.72
PFBS	375-73-5	3.33 J	G1652-FS(0)	1.000	11/2/2020	0.136	0.472	4.72
PFHxS	355-46-4	56.8	G1652-FS(0)	1.000	11/2/2020	0.106	0.377	4.72
PFOS	1763-23-1	42.4	G1652-FS(0)	1.000	11/2/2020	0.412	0.943	4.72
HFPO-DA	13252-13-6	0.472 U	G1652-FS(0)	1.000	11/2/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943 U	G1652-FS(0)	1.000	11/2/2020	0.250	0.943	4.72
9CI-PF3ONS	756426-58-1	0.472 U	G1652-FS(0)	1.000	11/2/2020	0.253	0.472	4.72
11CI-PF3OUdS	763051-92-9	0.943 U	G1652-FS(0)	1.000	11/2/2020	0.218	0.943	4.72

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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW02P-1020

Battelle ID G1652-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	37	G1652-FS(0)	11/2/2020
13C4-PFHpA	48	G1652-FS(0)	11/2/2020
13C8-PFOA	61	G1652-FS(0)	11/2/2020
13C9-PFNA	72	G1652-FS(0)	11/2/2020
13C6-PFDA	75	G1652-FS(0)	11/2/2020
13C7-PFUnA	88	G1652-FS(0)	11/2/2020
13C2-PFDoA	62	G1652-FS(0)	11/2/2020
13C2-PFTeDA	41	G1652-FS(0)	11/2/2020
d3-MeFOSAA	98	G1652-FS(0)	11/2/2020
d5-EnFOSAA	100	G1652-FS(0)	11/2/2020
13C3-PFBS	56	G1652-FS(0)	11/2/2020
13C3-PFHxS	71	G1652-FS(0)	11/2/2020
13C8-PFOS	79	G1652-FS(0)	11/2/2020
13C3-HFPO-DA	88	G1652-FS(0)	11/2/2020

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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW01-1020

Battelle ID G1654-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.270
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ	
PFHxA	307-24-4	2.84 J	G1654-FS(0)	1.000	11/2/2020	0.488	1.39	4.63	SSL
PFHpA	375-85-9	1.44 J	G1654-FS(0)	1.000	11/2/2020	0.244	0.926	4.63	↓
PFOA	335-67-1	2.93 J	G1654-FS(0)	1.000	11/2/2020	0.473	1.39	4.63	↓
PFNA	375-95-1	1.33 J	G1654-FS(0)	1.000	11/2/2020	0.286	0.926	4.63	↓
PFDA	335-76-2	0.463 U	G1654-FS(0)	1.000	11/2/2020	0.131	0.463	4.63	
PFUnA	2058-94-8	0.464 J	G1654-FS(0)	1.000	11/2/2020	0.203	0.463	4.63	SSL
PFDoA	307-55-1	0.463 U	G1654-FS(0)	1.000	11/2/2020	0.178	0.463	4.63	SSL
PFTrDA	72629-94-8	0.463 U	G1654-FS(0)	1.000	11/2/2020	0.143	0.463	4.63	SSL
PFTeDA	376-06-7	1.85 U	G1654-FS(0)	1.000	11/2/2020	0.679	1.85	4.63	SSL
NMeFOSAA	2355-31-9	0.926 U	G1654-FS(0)	1.000	11/2/2020	0.324	0.926	4.63	
NEtFOSAA	2991-50-6	0.926 U	G1654-FS(0)	1.000	11/2/2020	0.463	0.926	4.63	
PFBS	375-73-5	1.74 J	G1654-FS(0)	1.000	11/2/2020	0.133	0.463	4.63	SSL
PFHxS	355-46-4	19.0	G1654-FS(0)	1.000	11/2/2020	0.104	0.370	4.63	
PFOS	1763-23-1	12.8 J	G1654-FS(0)	1.000	11/2/2020	0.405	0.926	4.63	SSL
HFPO-DA	13252-13-6	0.463 U	G1654-FS(0)	1.000	11/2/2020	0.230	0.463	4.63	SSL
Adona	919005-14-4	0.926 U	G1654-FS(0)	1.000	11/2/2020	0.245	0.926	4.63	
9Cl-PF3ONS	756426-58-1	0.463 U	G1654-FS(0)	1.000	11/2/2020	0.248	0.463	4.63	
11Cl-PF3OUdS	763051-92-9	0.926 U	G1654-FS(0)	1.000	11/2/2020	0.214	0.926	4.63	

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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW01-1020
 Battelle ID G1654-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	28	G1654-FS(0)	11/2/2020
13C4-PFHpA	36	G1654-FS(0)	11/2/2020
13C8-PFOA	45	G1654-FS(0)	11/2/2020
13C9-PFNA	52	G1654-FS(0)	11/2/2020
13C6-PFDA	54	G1654-FS(0)	11/2/2020
13C7-PFUxA	49	G1654-FS(0)	11/2/2020
13C2-PFDoA	42	G1654-FS(0)	11/2/2020
13C2-PFTeDA	34	G1654-FS(0)	11/2/2020
d3-MeFOSAA	55	G1654-FS(0)	11/2/2020
d5-EtFOSAA	56	G1654-FS(0)	11/2/2020
13C3-PFBS	44	G1654-FS(0)	11/2/2020
13C3-PFHxS	56	G1654-FS(0)	11/2/2020
13C8-PFOS	49	G1654-FS(0)	11/2/2020
13C3-HFPO-DA	49	G1654-FS(0)	11/2/2020

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Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-FB03-101320

Battelle ID G1655-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix AQ
 Sample Size 0.260
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1.44 U	G1655-FS(0)	1.000	11/2/2020	0.507	1.44	4.81
PFHpA	375-85-9	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.253	0.962	4.81
PFOA	335-67-1	1.44 U	G1655-FS(0)	1.000	11/2/2020	0.491	1.44	4.81
PFNA	375-95-1	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.297	0.962	4.81
PFDA	335-76-2	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.137	0.481	4.81
PFUnA	2058-94-8	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.211	0.481	4.81
PFDoA	307-55-1	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.185	0.481	4.81
PFTiDA	72629-94-8	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.148	0.481	4.81
PFTeDA	376-06-7	1.92 U	G1655-FS(0)	1.000	11/2/2020	0.705	1.92	4.81
NMeFOSAA	2355-31-9	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.337	0.962	4.81
NEtFOSAA	2991-50-6	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.481	0.962	4.81
PFBS	375-73-5	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.138	0.481	4.81
PFHxS	355-46-4	0.385 U	G1655-FS(0)	1.000	11/2/2020	0.108	0.385	4.81
PFOS	1763-23-1	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.420	0.962	4.81
HFPO-DA	13252-13-6	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.238	0.481	4.81
Adona	919005-14-4	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.255	0.962	4.81
9CI-PF3ONS	756426-58-1	0.481 U	G1655-FS(0)	1.000	11/2/2020	0.258	0.481	4.81
11CI-PF3OUds	763051-92-9	0.962 U	G1655-FS(0)	1.000	11/2/2020	0.222	0.962	4.81

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Analyzed by: Schumitz, Denise
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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-EB01-101320-SW

Battelle ID G1656-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix AQ
 Sample Size 0.270
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1.39 U	G1656-FS(0)	1.000	11/2/2020	0.488	1.39	4.63
PFHpA	375-85-9	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.244	0.926	4.63
PFOA	335-67-1	1.39 U	G1656-FS(0)	1.000	11/2/2020	0.473	1.39	4.63
PFNA	375-95-1	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.286	0.926	4.63
PFDA	335-76-2	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.131	0.463	4.63
PFUnA	2058-94-8	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.203	0.463	4.63
PFDoA	307-55-1	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.178	0.463	4.63
PFTeDA	72629-94-8	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.143	0.463	4.63
PFTeDA	376-06-7	1.85 U	G1656-FS(0)	1.000	11/2/2020	0.679	1.85	4.63
NMeFOSAA	2355-31-9	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.324	0.926	4.63
NEtFOSAA	2991-50-6	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.463	0.926	4.63
PFBS	375-73-5	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.133	0.463	4.63
PFHxS	355-46-4	0.370 U	G1656-FS(0)	1.000	11/2/2020	0.104	0.370	4.63
PFOS	1763-23-1	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.405	0.926	4.63
HFPO-DA	13252-13-6	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.230	0.463	4.63
Adona	919005-14-4	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.245	0.926	4.63
9CI-PF3ONS	756426-58-1	0.463 U	G1656-FS(0)	1.000	11/2/2020	0.248	0.463	4.63
11CI-PF3OUds	763051-92-9	0.926 U	G1656-FS(0)	1.000	11/2/2020	0.214	0.926	4.63

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Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-EB01-101320-SD

Battelle ID G1657-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix AQ
 Sample Size 0.270
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1.39 U	G1657-FS(0)	1.000	11/2/2020	0.488	1.39	4.63
PFHpA	375-85-9	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.244	0.926	4.63
PFOA	335-67-1	1.39 U	G1657-FS(0)	1.000	11/2/2020	0.473	1.39	4.63
PFNA	375-95-1	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.286	0.926	4.63
PFDA	335-76-2	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.131	0.463	4.63
PFUnA	2058-94-8	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.203	0.463	4.63
PFDoA	307-55-1	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.178	0.463	4.63
PFTrDA	72629-94-8	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.143	0.463	4.63
PFTeDA	376-06-7	1.85 U	G1657-FS(0)	1.000	11/2/2020	0.679	1.85	4.63
NMeFOSAA	2355-31-9	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.324	0.926	4.63
NEtFOSAA	2991-50-6	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.463	0.926	4.63
PFBS	375-73-5	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.133	0.463	4.63
PFHxS	355-46-4	0.370 U	G1657-FS(0)	1.000	11/2/2020	0.104	0.370	4.63
PFOS	1763-23-1	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.405	0.926	4.63
HFPO-DA	13252-13-6	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.230	0.463	4.63
Adona	919005-14-4	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.245	0.926	4.63
9Cl-PF3ONS	756426-58-1	0.463 U	G1657-FS(0)	1.000	11/2/2020	0.248	0.463	4.63
11Cl-PF3OUdS	763051-92-9	0.926 U	G1657-FS(0)	1.000	11/2/2020	0.214	0.926	4.63

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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW08-1020

Battelle ID G1658-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.265
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	384 U	G1658-FS-D(3)	5.000	11/3/2020	2.49	7.08	23.6
PFHpA	375-85-9	310	G1658-FS(0)	1.000	11/3/2020	0.248	0.943	4.72
PFOA	335-67-1	453 U	G1658-FS-D(3)	5.000	11/3/2020	2.41	7.08	23.6
PFNA	375-95-1	407 U	G1658-FS-D(3)	5.000	11/3/2020	1.46	4.72	23.6
PFDA	335-76-2	37.6	G1658-FS(0)	1.000	11/3/2020	0.134	0.472	4.72
PFUnA	2058-94-8	116 U	G1658-FS-D(3)	5.000	11/3/2020	1.03	2.36	23.6
PFDoA	307-55-1	1.43 J	G1658-FS(0)	1.000	11/3/2020	0.181	0.472	4.72
PFTrDA	72629-94-8	12.1	G1658-FS(0)	1.000	11/3/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89 U	G1658-FS(0)	1.000	11/3/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	0.943 U	G1658-FS(0)	1.000	11/3/2020	0.330	0.943	4.72
NEtFOSAA	2991-50-6	0.943 U	G1658-FS(0)	1.000	11/3/2020	0.472	0.943	4.72
PFBS	375-73-5	51.1	G1658-FS(0)	1.000	11/3/2020	0.136	0.472	4.72
PFHxS	355-46-4	1700 U	G1658-FS-D(7)	62.500	11/3/2020	6.60	23.6	295
PFOS	1763-23-1	4960 U	G1658-FS-D(7)	62.500	11/3/2020	25.8	59.0	295
HFPO-DA	13252-13-6	0.472 U	G1658-FS(0)	1.000	11/3/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943 U	G1658-FS(0)	1.000	11/3/2020	0.250	0.943	4.72
9CI-PF3ONS	756426-58-1	0.472 U	G1658-FS(0)	1.000	11/3/2020	0.253	0.472	4.72
11CI-PF3OUds	763051-92-9	0.943 U	G1658-FS(0)	1.000	11/3/2020	0.218	0.943	4.72

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Analyzed by: Schumitz, Denise
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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW06-1020

Battelle ID G1661-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.260
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	392 U	G1661-FS-D(3)	5.000	11/3/2020	2.53	7.21	24.0
PFHpA	375-85-9	305 U	G1661-FS(0)	1.000	11/3/2020	0.253	0.962	4.81
PFOA	335-67-1	521 U	G1661-FS-D(5)	25.000	11/3/2020	12.3	36.1	120
PFNA	375-95-1	416 U	G1661-FS-D(3)	5.000	11/3/2020	1.49	4.81	24.0
PFDA	335-76-2	40.2 U	G1661-FS(0)	1.000	11/3/2020	0.137	0.481	4.81
PFUnA	2058-94-8	112 U	G1661-FS-D(3)	5.000	11/3/2020	1.05	2.40	24.0
PFDoA	307-55-1	1.51 U	G1661-FS(0)	1.000	11/3/2020	0.185	0.481	4.81
PFTrDA	72629-94-8	30.8 U	G1661-FS(0)	1.000	11/3/2020	0.148	0.481	4.81
PFTeDA	376-06-7	1.92 U	G1661-FS(0)	1.000	11/3/2020	0.705	1.92	4.81
NMeFOSAA	2355-31-9	0.962 U	G1661-FS(0)	1.000	11/3/2020	0.337	0.962	4.81
NEtFOSAA	2991-50-6	0.962 U	G1661-FS(0)	1.000	11/3/2020	0.481	0.962	4.81
PFBS	375-73-5	51.2 U	G1661-FS(0)	1.000	11/3/2020	0.138	0.481	4.81
PFHxS	355-46-4	1520 U	G1661-FS-D(5)	25.000	11/3/2020	2.69	9.62	120
PFOS	1763-23-1	4140 U	G1661-FS-D(7)	62.500	11/3/2020	26.3	60.1	300
HFPO-DA	13252-13-6	0.481 U	G1661-FS(0)	1.000	11/3/2020	0.238	0.481	4.81
Adona	919005-14-4	0.962 U	G1661-FS(0)	1.000	11/3/2020	0.255	0.962	4.81
9CI-PF3ONS	756426-58-1	0.481 U	G1661-FS(0)	1.000	11/3/2020	0.258	0.481	4.81
11CI-PF3OUdS	763051-92-9	0.962 U	G1661-FS(0)	1.000	11/3/2020	0.222	0.962	4.81

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Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW06-1020

Battelle ID G1661-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	75 D	G1661-FS-D(5)	11/3/2020
13C4-PFHpA	75 D	G1661-FS-D(5)	11/3/2020
13C8-PFOA	71 D	G1661-FS-D(5)	11/3/2020
13C9-PFNA	95 D	G1661-FS-D(5)	11/3/2020
13C6-PFDA	69	G1661-FS(0)	11/3/2020
13C7-PFUnA	66	G1661-FS(0)	11/3/2020
13C2-PFDoA	43 M	G1661-FS(0)	11/3/2020
13C2-PFTeDA	6 N	G1661-FS(0)	11/3/2020
d3-MeFOSAA	97 D	G1661-FS-D(7)	11/3/2020
d5-StFOSAA	101 D	G1661-FS-D(7)	11/3/2020
13C3-PFBS	91 D	G1661-FS-D(7)	11/3/2020
13C3-PFHkS	101 D	G1661-FS-D(7)	11/3/2020
13C8-PFOS	95 D	G1661-FS-D(7)	11/3/2020
13C3-HFPO-DA	61 D	G1661-FS-D(5)	11/3/2020

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Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW11-1020

Battelle ID G1663-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.265
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	452 D	G1663-FS-D(3)	5.000	11/3/2020	2.49	7.08	23.6
PFHpA	375-89-9	365 D	G1663-FS-D(3)	5.000	11/3/2020	1.24	4.72	23.6
PFOA	335-67-1	550 D	G1663-FS-D(5)	12.500	11/3/2020	6.03	17.7	59.0
PFNA	375-95-1	354 D	G1663-FS-D(3)	5.000	11/3/2020	1.46	4.72	23.6
PFDA	335-76-2	32.1	G1663-FS(0)	1.000	11/3/2020	0.134	0.472	4.72
PFUnA	2098-94-8	81.4 J	G1663-FS(0)	1.000	11/3/2020	0.207	0.472	4.72
PFDoA	307-55-1	1.75 J	G1663-FS(0)	1.000	11/3/2020	0.181	0.472	4.72
PFTrDA	72629-94-8	23.4	G1663-FS(0)	1.000	11/3/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89 U J	G1663-FS(0)	1.000	11/3/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	0.943 U	G1663-FS(0)	1.000	11/3/2020	0.330	0.943	4.72
NEtFOSAA	2991-50-6	0.943 U	G1663-FS(0)	1.000	11/3/2020	0.472	0.943	4.72
PFBS	375-73-5	45.0	G1663-FS(0)	1.000	11/3/2020	0.136	0.472	4.72
PFHxS	355-46-4	1760 D	G1663-FS-D(7)	31.250	11/3/2020	3.30	11.8	147
PFOS	1763-23-1	4370 D	G1663-FS-D(9)	156.250	11/3/2020	64.4	147	737
HFPO-DA	13252-13-6	0.472 U	G1663-FS(0)	1.000	11/3/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943 U	G1663-FS(0)	1.000	11/3/2020	0.250	0.943	4.72
9Cl-PF3ONS	756426-58-1	0.472 U	G1663-FS(0)	1.000	11/3/2020	0.253	0.472	4.72
11Cl-PF3OUdS	763051-92-9	0.943 U	G1663-FS(0)	1.000	11/3/2020	0.218	0.943	4.72

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Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW11-1020
 Battelle ID G1663-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	72 0	G1663-FS-D(5)	11/3/2020
13C4-PFHxA	71 0	G1663-FS-D(5)	11/3/2020
13C8-PFOA	72 0	G1663-FS-D(5)	11/3/2020
13C9-PFNA	94 0	G1663-FS-D(5)	11/3/2020
13C6-PFDA	76	G1663-FS(0)	11/3/2020
13C7-PFUnA	79	G1663-FS(0)	11/3/2020
13C2-PFDoA	61	G1663-FS(0)	11/3/2020
13C2-PFTeDA	36 0	G1663-FS(0)	11/3/2020
d3-MeFOSAA	83 0	G1663-FS-D(9)	11/3/2020
d5-EtFOSAA	97 0	G1663-FS-D(9)	11/3/2020
13C3-PFBS	78 0	G1663-FS-D(9)	11/3/2020
13C3-PFHxS	91 0	G1663-FS-D(9)	11/3/2020
13C8-PFOS	85 0	G1663-FS-D(9)	11/3/2020
13C3-HFPO-DA	64 0	G1663-FS-D(5)	11/3/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW11P-1020

Battelle ID G1664-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.270
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	494 D	G1664-FS-D(3)	5.000	11/3/2020	2.44	6.94	23.1
PFHpA	375-85-9	360 D	G1664-FS-D(3)	5.000	11/3/2020	1.22	4.63	23.1
PFOA	335-67-1	578 D	G1664-FS-D(5)	12.500	11/3/2020	5.91	17.4	57.9
PFNA	375-95-1	443 D	G1664-FS-D(3)	5.000	11/3/2020	1.43	4.63	23.1
PFDA	335-76-2	38.6	G1664-FS(0)	1.000	11/3/2020	0.131	0.463	4.63
PFUnA	2058-94-8	114 J	G1664-FS(0)	1.000	11/3/2020	0.203	0.463	4.63
PFDoA	307-55-1	1.69 J	G1664-FS(0)	1.000	11/3/2020	0.178	0.463	4.63
PFTrDA	72629-94-8	26.4	G1664-FS(0)	1.000	11/3/2020	0.143	0.463	4.63
PFTeDA	376-06-7	1.85 U J	G1664-FS(0)	1.000	11/3/2020	0.679	1.85	4.63
NMeFOSAA	2355-31-9	0.926 U	G1664-FS(0)	1.000	11/3/2020	0.324	0.926	4.63
NEtFOSAA	2991-50-6	0.926 U	G1664-FS(0)	1.000	11/3/2020	0.463	0.926	4.63
PFBS	375-73-5	51.2	G1664-FS(0)	1.000	11/3/2020	0.133	0.463	4.63
PFHxS	355-46-4	1730 D	G1664-FS-D(7)	62.500	11/3/2020	6.48	23.1	289
PFOS	1763-23-1	3820 D	G1664-FS-D(7)	62.500	11/3/2020	25.3	57.9	289
HFPO-DA	13252-13-6	0.463 U	G1664-FS(0)	1.000	11/3/2020	0.230	0.463	4.63
Adona	919005-14-4	0.926 U	G1664-FS(0)	1.000	11/3/2020	0.245	0.926	4.63
9CI-PF3ONS	756426-58-1	0.463 U	G1664-FS(0)	1.000	11/3/2020	0.248	0.463	4.63
11CI-PF3OUdS	763051-92-9	0.926 U	G1664-FS(0)	1.000	11/3/2020	0.214	0.926	4.63

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Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW10-1020

Battelle ID G1665-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.275
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	363 P	G1665-FS-D(3)	5.000	11/3/2020	2.40	6.82	22.7
PFHpA	375-85-9	295	G1665-FS(0)	1.000	11/3/2020	0.239	0.909	4.55
PFOA	335-67-1	413 P	G1665-FS-D(3)	5.000	11/3/2020	2.32	6.82	22.7
PFNA	375-95-1	495 P	G1665-FS-D(3)	5.000	11/3/2020	1.40	4.55	22.7
PFDA	335-76-2	27.6	G1665-FS(0)	1.000	11/3/2020	0.129	0.455	4.55
PFUnA	2058-94-8	99.0 P J	G1665-FS-D(3)	5.000	11/3/2020	0.995	2.27	22.7
PFDoA	307-55-1	0.419 J	G1665-FS(0)	1.000	11/3/2020	0.175	0.455	4.55
PFTrDA	72629-94-8	4.00 P J	G1665-FS(0)	1.000	11/3/2020	0.140	0.455	4.55
PFTeDA	376-06-7	1.82 U	G1665-FS(0)	1.000	11/3/2020	0.666	1.82	4.55
NMeFOSAA	2355-31-9	0.909 U	G1665-FS(0)	1.000	11/3/2020	0.318	0.909	4.55
NEtFOSAA	2991-50-6	0.909 U	G1665-FS(0)	1.000	11/3/2020	0.455	0.909	4.55
PFBS	375-73-5	64.1	G1665-FS(0)	1.000	11/3/2020	0.131	0.455	4.55
PFHxS	355-46-4	1130 P	G1665-FS-D(7)	31.250	11/3/2020	3.18	11.4	142
PFOS	1763-23-1	4050 P	G1665-FS-D(9)	156.250	11/3/2020	62.1	142	710
HFPO-DA	13252-13-6	0.455 U	G1665-FS(0)	1.000	11/3/2020	0.225	0.455	4.55
Adona	919005-14-4	0.909 U	G1665-FS(0)	1.000	11/3/2020	0.241	0.909	4.55
9CI-PF3ONS	756426-58-1	0.455 U	G1665-FS(0)	1.000	11/3/2020	0.244	0.455	4.55
11CI-PF3OUdS	763051-92-9	0.909 U	G1665-FS(0)	1.000	11/3/2020	0.210	0.909	4.55

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Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW09-1020

Battelle ID G1668-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix SW
 Sample Size 0.250
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	190	G1668-FS(0)	1.000	11/3/2020	0.527	1.50	5.00
PFHpA	375-85-9	223	G1668-FS(0)	1.000	11/3/2020	0.263	1.00	5.00
PFOA	335-67-1	140 J	G1668-FS-D(3)	5.000	11/3/2020	2.56	7.50	25.0
PFNA	375-95-1	120	G1668-FS(0)	1.000	11/3/2020	0.309	1.00	5.00
PFDA	335-76-2	20.0	G1668-FS(0)	1.000	11/3/2020	0.142	0.500	5.00
PFUnA	2058-94-8	185	G1668-FS-D(3)	5.000	11/3/2020	1.10	2.50	25.0
PFDoA	307-55-1	3.14 J	G1668-FS(0)	1.000	11/3/2020	0.192	0.500	5.00
PFTroA	72629-94-8	13.9	G1668-FS(0)	1.000	11/3/2020	0.154	0.500	5.00
PFTeDA	376-06-7	2.00 U J	G1668-FS(0)	1.000	11/3/2020	0.733	2.00	5.00
NMeFOSAA	2355-31-9	1.00 U	G1668-FS(0)	1.000	11/3/2020	0.350	1.00	5.00
NEtFOSAA	2991-50-6	1.00 U	G1668-FS(0)	1.000	11/3/2020	0.500	1.00	5.00
PFBS	375-73-5	18.4	G1668-FS(0)	1.000	11/3/2020	0.144	0.500	5.00
PFHxS	355-46-4	301	G1668-FS-D(3)	5.000	11/3/2020	0.560	2.00	25.0
PFOS	1763-23-1	2990	G1668-FS-D(7)	62.500	11/3/2020	27.3	62.5	313
HFPO-DA	13252-13-6	0.500 U	G1668-FS(0)	1.000	11/3/2020	0.248	0.500	5.00
Adona	919005-14-4	1.00 U	G1668-FS(0)	1.000	11/3/2020	0.265	1.00	5.00
9CI-PF3ONS	756426-58-1	0.500 U	G1668-FS(0)	1.000	11/3/2020	0.268	0.500	5.00
11CI-PF3OUdS	763051-92-9	1.00 U	G1668-FS(0)	1.000	11/3/2020	0.231	1.00	5.00

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Analyzed by: Schumitz, Denise
 Printed: 11/10/2020



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Project Client: CH2M
 Project Name: CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 Project No.: 100142218

Client ID CBD-AOA-SW09-1020
 Battelle ID G1668-FS
 Sample Type SA
 Collection Date 10/13/2020
 Extraction Date 10/21/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	54	G1668-FS-D(3)	11/3/2020
13C4-PFHpA	61	G1668-FS-D(3)	11/3/2020
13C8-PFOA	68	G1668-FS-D(3)	11/3/2020
13C9-PFNA	55	G1668-FS(0)	11/3/2020
13C6-PFDA	63	G1668-FS(0)	11/3/2020
13C7-PFNA	79	G1668-FS-D(3)	11/3/2020
13C2-PFDOA	40	G1668-FS(0)	11/3/2020
13C2-PFTeDA	22	G1668-FS(0)	11/3/2020
d3-MeFOSAA	86	G1668-FS-D(7)	11/3/2020
d5-EtFOSAA	90	G1668-FS-D(7)	11/3/2020
13C3-PFBS	80	G1668-FS-D(7)	11/3/2020
13C3-PFHxS	80	G1668-FS-D(7)	11/3/2020
13C8-PFOS	85	G1668-FS-D(7)	11/3/2020
13C3-HFPO-DA	56	G1668-FS-D(3)	11/3/2020

New 11/10/21

Analyzed by: Schumitz, Denise
 Printed: 11/10/2020

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESCRIPTION	SDG	COORD_X	COORD_Y	ANALYTICAL_METHOD_GRP_DESC	SAMPLE_NAME	SAMPLE_MATRIX	SAMPLE_MATRIX_DESC	COLLECT_DATE
		CHESAPEAKE_BEACH_NRL			20-1298			Perfluoroalkyl Compounds	CBD-AOA-EB01-101320-SD	WQ	Water for QC samples	13-Oct-20
		CHESAPEAKE_BEACH_NRL			20-1298			Perfluoroalkyl Compounds	CBD-AOA-EB01-101320-SW	WQ	Water for QC samples	13-Oct-20
		CHESAPEAKE_BEACH_NRL			20-1298			Perfluoroalkyl Compounds	CBD-AOA-FB03-101320	WQ	Water for QC samples	13-Oct-20
CBD-AOA-SW01	SITE 00010	CHESAPEAKE_BEACH_NRL	SWS	Surface water body - nonspecific	20-1298	1445171.64	360920.92	Perfluoroalkyl Compounds	CBD-AOA-SW01-1020	WS	Surface water	13-Oct-20
CBD-AOA-SW03	SITE 00010	CHESAPEAKE_BEACH_NRL	SWS	Surface water body - nonspecific	20-1298	1446150.22	360491.14	Perfluoroalkyl Compounds	CBD-AOA-SW03-1020	WS	Surface water	13-Oct-20
CBD-AOA-SW05	SITE 00010	CHESAPEAKE_BEACH_NRL	SWS	Surface water body - nonspecific	20-1298	1446739.77	359968.95	Perfluoroalkyl Compounds	CBD-AOA-SW05-1020	WS	Surface water	13-Oct-20
CBD-AOA-SW07	SITE 00010	CHESAPEAKE_BEACH_NRL	SWS	Surface water body - nonspecific	20-1298	1447020.98	359832.01	Perfluoroalkyl Compounds	CBD-AOA-SW07-1020	WS	Surface water	13-Oct-20
CBD-AOA-SW09	SITE 00010	CHESAPEAKE_BEACH_NRL	SWS	Surface water body - nonspecific	20-1298	1445182.83	361936.62	Perfluoroalkyl Compounds	CBD-AOA-SW09-1020	WS	Surface water	13-Oct-20
CBD-AOA-SW10	SITE 00010	CHESAPEAKE_BEACH_NRL	SWS	Surface water body - nonspecific	20-1298	1445476.8	362090.64	Perfluoroalkyl Compounds	CBD-AOA-SW10-1020	WS	Surface water	13-Oct-20
CBD-AOA-SW11	SITE 00010	CHESAPEAKE_BEACH_NRL	SWS	Surface water body - nonspecific	20-1298	1445594.25	362106.78	Perfluoroalkyl Compounds	CBD-AOA-SW11-1020	WS	Surface water	13-Oct-20
CBD-AOA-SW11	SITE 00010	CHESAPEAKE_BEACH_NRL	SWS	Surface water body - nonspecific	20-1298	1445594.25	362106.78	Perfluoroalkyl Compounds	CBD-AOA-SW11P-1020	WS	Surface water	13-Oct-20
CBD-AOA-SWSD02	SITE 00010	CHESAPEAKE_BEACH_NRL	SWSD	Surface Water/Sediment	20-1298	1445382.26	360845.6	Perfluoroalkyl Compounds	CBD-AOA-SW02-1020	WS	Surface water	13-Oct-20
CBD-AOA-SWSD02	SITE 00010	CHESAPEAKE_BEACH_NRL	SWSD	Surface Water/Sediment	20-1298	1445382.26	360845.6	Perfluoroalkyl Compounds	CBD-AOA-SW02P-1020	WS	Surface water	13-Oct-20
CBD-AOA-SWSD04	SITE 00010	CHESAPEAKE_BEACH_NRL	SWSD	Surface Water/Sediment	20-1298	1445697.63	360641.15	Perfluoroalkyl Compounds	CBD-AOA-SW04-1020	WS	Surface water	13-Oct-20
CBD-AOA-SWSD06	SITE 00010	CHESAPEAKE_BEACH_NRL	SWSD	Surface Water/Sediment	20-1298	1445768.61	362342.14	Perfluoroalkyl Compounds	CBD-AOA-SW06-1020	WS	Surface water	13-Oct-20
CBD-AOA-SWSD08	SITE 00010	CHESAPEAKE_BEACH_NRL	SWSD	Surface Water/Sediment	20-1298	1445958.45	362658.46	Perfluoroalkyl Compounds	CBD-AOA-SW08-1020	WS	Surface water	13-Oct-20