



**Groundwater Sample Results,
Level 4 Laboratory Report, Electronic Data
Deliverable, Data Validation Report, Sample Location
Report, SDG 20-1321**

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, GW

Batch 20-1321

Package DP-20-1200

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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It can be done

**CTO-4532: NRL Chesapeake Bay Detachment
(NRL-CBD) Site 10
Project No 100142218
PFAS by DoD QSM 5.3 Table B-15
AQ, GW
Batch 20-1321
*Package DP-20-1200***

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: 2020.11.13 15:40:06 -05'00'

QC Chemist Approval:



Digitally signed by Carla Devine
Date: 2020.11.17 13:49:12 -05'00'

Project Manager Approval:



Robert Lizotte, Jr.
2020.11.17 14:54:27 -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, GW

Batch 20-1321


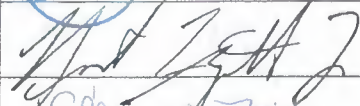






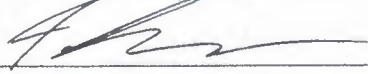



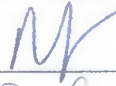

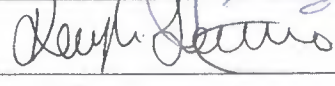
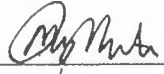
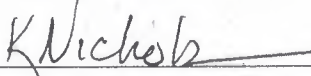
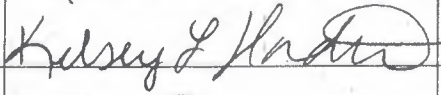
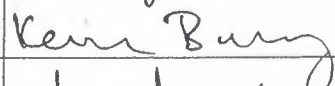
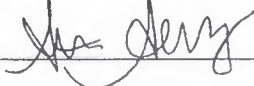
Package DP-20-1200

1	<i>Work Plan</i> Laboratory Work Plan, Addendums To Work Plan, Memos From Project Manager, Special Instructions, Chain-of-Custody Reports.	1
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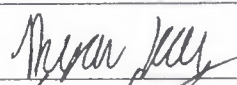
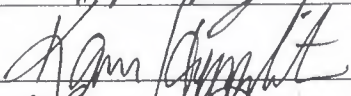

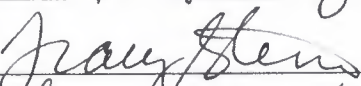
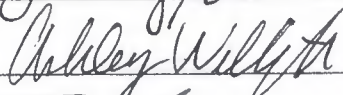


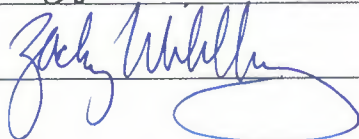
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Master Signature Page

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

Master Signature Page

Name (Printed)	Signature	Initials	Date
Uimico Brown		UB	01/30/20
Ryan Kelly		RK	01/30/20
KAREN HYPPOLITE		K.H.	01/31/20
Gail DeRuzzo		GD	01/31/2020
Tracy Stenner		JS	1/31/2020
Ashley Wellington		AW	1/31/2020
Daniel Cooney		DAC	1/31/2020
Peter Demers		PD	1/31/2020
Zachary Willenberg		ZW	2/3/2020

Sample Summary

Client: CH2M
 SDG: 20-1321
 Project/Site: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
 CTO: 4532

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Receipt Date
DA945PB-FS	Procedural Blank	WATER	10/22/2020	10/22/2020
DA946LCS-FS	Laboratory Control Sample	WATER	10/22/2020	10/22/2020
G1765-FS	CBD-AOA-MW04-1020	GW	10/19/2020	10/20/2020
G1766-FS	CBD-AOA-MW01-1020	GW	10/19/2020	10/20/2020
G1767-FS	CBD-AOA-MW01P-1020	GW	10/19/2020	10/20/2020
G1768-FS	CBD-AOA-MW03-1020	GW	10/19/2020	10/20/2020
G1769-FS	CBD-AOA-MW08-1020	GW	10/19/2020	10/20/2020
G1770MS-FS	CBD-AOA-MW08-1020-MS	GW	10/19/2020	10/20/2020
G1771MSD-FS	CBD-AOA-MW08-1020-SD	GW	10/19/2020	10/20/2020
G1772-FS	CBD-AOA-MW02-1020	GW	10/19/2020	10/20/2020
G1773-FS	CBD-AOA-MW18-1020	GW	10/19/2020	10/20/2020
G1774-FS	CBD-AOA-EB01-101920-GW	AQ	10/19/2020	10/20/2020
G1775-FS	CBD-SO3-MW01-1020	GW	10/19/2020	10/20/2020

Work Plan



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.



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



WORK/QUALITY ASSURANCE PROJECT PLAN

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

LIMS Reports: No

Histograms: No

Excel Tables: No

EICs: No

Chromatograms: No

EDDs: No



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



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.



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)		



WORK/QUALITY ASSURANCE PROJECT PLAN

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)		



WORK/QUALITY ASSURANCE PROJECT PLAN

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



WORK/QUALITY ASSURANCE PROJECT PLAN

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)		



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	PFTTrDA	T		13C2-PFTeDA	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



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. Organics Results in the Target is less than 5 times the Original	N n	Review with Project Manager; re-analyze or justify reporting results in the project records.
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. Organics Results in the Target is less than 5 times the Original	N n	Review with Project Manager; re-analyze or justify reporting results in the project records.
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). Organics Results in the Target is less than 5 times the MDL	N n	Review with Project Manager; re-analyze or justify reporting results in the project records.
Analytical Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). 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.



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-201020-04

It can be done

Battelle Project No: 100142218

Sample Receipt Form

Approved: Authorized Project Number: 708007CHClient: JacobsReceived by: Schumitz, MattDate/Time Received: Tuesday, October 20, 2020 10:30 AMNo. of Shipping Containers: 1**SHIPMENT**Method of Delivery: Commercial CarrierTracking Number: Fed ExCOC 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	7718 1466 2461	Custody Seals	Intact	Intact	Therm_2	1.3	11

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): 1.3 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: G1765 - G1775

Samples logged in by: Schumitz, Matt Date/Time: 10/20/2020 10:30 AM

Approved By: _____ Approved On: _____

Authorized By: _____ Authorized On: _____



It can be done

ShpNo SHP-201020-04

Battelle Project No: 100142218

Sample Receipt Form Details

Approved: Authorized

Project Number: 708007CH Client: Jacobs

Received by: Schumitz, Matt Date/Time Received: Tuesday, October 20, 2020 10:30 AM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
G1765	CBD-AOA-MW04-1020	10/19/20 10:20	10/20/20 11:33	2	GW	1.3	NA	NA	NA	R0119 (NA)			
G1766	CBD-AOA-MW01-1020	10/19/20 10:35	10/20/20 11:33	2	GW	1.3	NA	NA	NA	R0119 (NA)			
G1767	CBD-AOA-MW01P-1020	10/19/20 10:40	10/20/20 11:33	2	GW	1.3	NA	NA	NA	R0119 (NA)			
G1768	CBD-AOA-MW03-1020	10/19/20 11:35	10/20/20 11:33	2	GW	1.3	NA	NA	NA	R0119 (NA)			
G1769	CBD-AOA-MW08-1020	10/19/20 12:55	10/20/20 11:34	2	GW	1.3	NA	NA	NA	R0119 (NA)			
G1770	CBD-AOA-MW08-1020-MS	10/19/20 12:55	10/20/20 11:34	2	GW	1.3	NA	NA	NA	R0119 (NA)			
G1771	CBD-AOA-MW08-1020-SD	10/19/20 12:55	10/20/20 11:34	2	GW	1.3	NA	NA	NA	R0119 (NA)			
G1772	CBD-AOA-MW02-1020	10/19/20 13:10	10/20/20 11:34	2	GW	1.3	NA	NA	NA	R0119 (NA)			
G1773	CBD-AOA-MW18-1020	10/19/20 14:35	10/20/20 11:34	2	GW	1.3	NA	NA	NA	R0119 (NA)			
G1774	CBD-AOA-EB01-101920-GW	10/19/20 16:00	10/20/20 11:35	2	AQ	1.3	NA	NA	NA	R0119 (NA)			
G1775	CBD-SO3-MW01-1020	10/19/20 15:20	10/20/20 11:35	2	GW	1.3	NA	NA	NA	R0119 (NA)			

Total Samples: 11



Chain-of-Custody

Client Contact Information		Project Manager:		Sampling Site:		Site Information:	
Mike Zamboni michael.zamboni@jacobs.com CH2M/Jacobs		Caitlin Bronfield Phone: 703 376 5097 Email: caitlin.bronfield@jacobs.com		Site ID (FA)		NREL CBD	
Project Name: Site 10 SI		Sampler Information (print name): Caitlin Bronfield		Preservative: none		COC #	
Project No: 708207EH		Phone: 703 376 5097		Analysis: PFAS		Page# 1 of 1	
Time Zone: ET		Turnaround Time (TAT) Requested: RUSH					
Sample Identification				Analysis			
Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.	Analysis	Preservative
CBD-A0A-MW09-1020	10/19/20	1020	Grab	GW	2	PFAS	none
CBD-A0A-MW01-1020		1035			2		
CBD-A0A-MW01P-1020		1040			2		
CBD-A0A-MW03-1020		1135			2		
CBD-A0A-MW08-1020		1255			2		
CBD-A0A-MW08-1020-MS		1255			2		
CBD-A0A-MW08-1020-SD		1255			2		
CBD-A0A-MW02-1020		1310			2		
CBD-A0A-MW18-1020		1435			2		
CBD-A0A-EBo1-101920-GW		1600		AG	2		
CBD-503-MW01-1020	1520	1605		GW	2		
CBD-503-MW02-1020					2		
Receipt Temperature: (°C)				Samples Intact: Yes - No			
Samples Intact: Yes - No				Samples on Ice: Yes - No			
Receipt Comments:							
Relinquished by (Print/Sign)		Company		Date/Time		Received by (Print/Sign)	
Caitlin Bronfield		CH2M/Jacobs		10/19/20 1800		[Signature]	
Relinquished by (Print/Sign)		Company		Date/Time		Received by (Print/Sign)	
[Signature]		BNIO		10-20-20 1030		[Signature]	
Relinquished by (Print/Sign)		Company		Date/Time		Received by (Print/Sign)	
[Signature]		[Signature]		[Signature]		[Signature]	
Comments:							

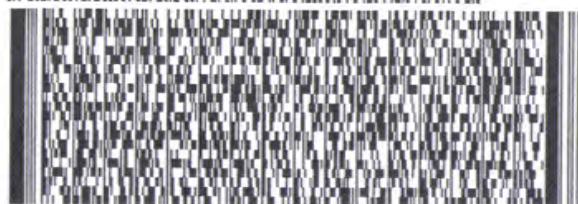
ORIGIN ID:BCBA (703) 376-5000
CAITLIN DRONFIELD
CAITLIN DRONFIELD
2411 DULLES CORNER PARK
SUITE 500
HERNDON, VA 20171
UNITED STATES US

SHIP DATE: 15OCT20
ACTWGT: 50.00 LB
CAD: 103931050/INET4280
DIMS: 16x24x18 IN
BILL THIRD PARTY

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

566J2/A27EB766

(781) 681-5565 REF: 708207/CH.FIFS
INV. DEPT.
PO.



FRI - 16 OCT 10:30A
PRIORITY OVERNIGHT

TRK# 7718 1466 2461
0201

EM XPUA

02061
MA-US BOS



*Therm 2
1.30*

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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-MW04-1020

Battelle ID G1765-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.255
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1360 D	G1765-FS-D(7)	31.250	11/10/2020	16.1	46.0	153
PFHpA	375-85-9	471	G1765-FS(0)	1.000	11/10/2020	0.258	0.980	4.90
PFOA	335-67-1	1090 D	G1765-FS-D(5)	12.500	11/10/2020	6.26	18.4	61.3
PFNA	375-95-1	1130 D	G1765-FS-D(3)	5.000	11/10/2020	1.51	4.90	24.5
PFDA	335-76-2	360 D	G1765-FS-D(3)	5.000	11/10/2020	0.696	2.45	24.5
PFUnA	2058-94-8	3390 D	G1765-FS-D(9)	156.250	11/11/2020	33.5	76.6	766
PFDoA	307-55-1	175	G1765-FS(0)	1.000	11/10/2020	0.188	0.490	4.90
PFTTrDA	72629-94-8	488 D	G1765-FS-D(3)	5.000	11/10/2020	0.755	2.45	24.5
PFTeDA	376-06-7	1.96 U	G1765-FS(0)	1.000	11/10/2020	0.719	1.96	4.90
NMeFOSAA	2355-31-9	7.27	G1765-FS(0)	1.000	11/10/2020	0.343	0.980	4.90
NEtFOSAA	2991-50-6	18.5	G1765-FS(0)	1.000	11/10/2020	0.490	0.980	4.90
PFBS	375-73-5	88.8	G1765-FS(0)	1.000	11/10/2020	0.141	0.490	4.90
PFHxS	355-46-4	3170 D	G1765-FS-D(9)	156.250	11/11/2020	17.2	61.3	766
PFOS	1763-23-1	10800 D	G1765-FS-D(9)	156.250	11/11/2020	66.9	153	766
HFPO-DA	13252-13-6	0.490 U	G1765-FS(0)	1.000	11/10/2020	0.243	0.490	4.90
Adona	919005-14-4	0.980 U	G1765-FS(0)	1.000	11/10/2020	0.260	0.980	4.90
9CI-PF3ONS	756426-58-1	0.490 U	G1765-FS(0)	1.000	11/10/2020	0.263	0.490	4.90
11CI-PF3OUdS	763051-92-9	0.980 U	G1765-FS(0)	1.000	11/10/2020	0.226	0.980	4.90



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

Client ID CBD-AOA-MW04-1020

Battelle ID G1765-FS

Sample Type SA

Collection Date 10/19/2020

Extraction Date 10/22/2020

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

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	98 D	G1765-FS-D(7)	11/10/2020
13C4-PFHpA	87 D	G1765-FS-D(5)	11/10/2020
13C8-PFOA	80 D	G1765-FS-D(5)	11/10/2020
13C9-PFNA	77 D	G1765-FS-D(7)	11/10/2020
13C6-PFDA	91 D	G1765-FS-D(3)	11/10/2020
13C7-PFUnA	103 D	G1765-FS-D(9)	11/11/2020
13C2-PFDoA	100 D	G1765-FS-D(3)	11/10/2020
13C2-PFTeDA	108 D	G1765-FS-D(3)	11/10/2020
d3-MeFOSAA	91 D	G1765-FS-D(9)	11/11/2020
d5-EtFOSAA	108 D	G1765-FS-D(9)	11/11/2020
13C3-PFBS	103 D	G1765-FS-D(9)	11/11/2020
13C3-PFHxS	103 D	G1765-FS-D(9)	11/11/2020
13C8-PFOS	103 D	G1765-FS-D(9)	11/11/2020
13C3-HFPO-DA	88 D	G1765-FS-D(5)	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-MW01-1020

Battelle ID G1766-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix GW
 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	2880 D	G1766-FS-D(7)	62.500	11/11/2020	31.7	90.1	300
PFHpA	375-85-9	1600 D	G1766-FS-D(7)	62.500	11/11/2020	15.8	60.1	300
PFOA	335-67-1	1970 D	G1766-FS-D(5)	25.000	11/11/2020	12.3	36.1	120
PFNA	375-95-1	2150 D	G1766-FS-D(5)	25.000	11/11/2020	7.43	24.0	120
PFDA	335-76-2	210 D	G1766-FS-D(3)	5.000	11/11/2020	0.683	2.40	24.0
PFUnA	2058-94-8	776 D	G1766-FS-D(5)	25.000	11/11/2020	5.26	12.0	120
PFDoA	307-55-1	2.39 J	G1766-FS(0)	1.000	11/11/2020	0.185	0.481	4.81
PFTTrDA	72629-94-8	5.02	G1766-FS(0)	1.000	11/11/2020	0.148	0.481	4.81
PFTeDA	376-06-7	1.92 U	G1766-FS(0)	1.000	11/11/2020	0.705	1.92	4.81
NMeFOSAA	2355-31-9	0.764 J	G1766-FS(0)	1.000	11/11/2020	0.337	0.962	4.81
NEtFOSAA	2991-50-6	1.70 J	G1766-FS(0)	1.000	11/11/2020	0.481	0.962	4.81
PFBS	375-73-5	167	G1766-FS(0)	1.000	11/11/2020	0.138	0.481	4.81
PFHxS	355-46-4	6180 D	G1766-FS-D(9)	312.500	11/11/2020	33.7	120	1500
PFOS	1763-23-1	23700 D	G1766-FS-D(9)	312.500	11/11/2020	131	300	1500
HFPO-DA	13252-13-6	0.481 U	G1766-FS(0)	1.000	11/11/2020	0.238	0.481	4.81
Adona	919005-14-4	0.962 U	G1766-FS(0)	1.000	11/11/2020	0.255	0.962	4.81
9CI-PF3ONS	756426-58-1	0.481 U	G1766-FS(0)	1.000	11/11/2020	0.258	0.481	4.81
11CI-PF3OUdS	763051-92-9	0.962 U	G1766-FS(0)	1.000	11/11/2020	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-MW01-1020

Battelle ID G1766-FS
Sample Type SA
Collection Date 10/19/2020
Extraction Date 10/22/2020
Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	93 D	G1766-FS-D(7)	11/11/2020
13C4-PFHpA	87 D	G1766-FS-D(7)	11/11/2020
13C8-PFOA	87 D	G1766-FS-D(5)	11/11/2020
13C9-PFNA	60 D	G1766-FS-D(5)	11/11/2020
13C6-PFDA	95 D	G1766-FS-D(3)	11/11/2020
13C7-PFUnA	101 D	G1766-FS-D(5)	11/11/2020
13C2-PFDoA	123 D	G1766-FS-D(3)	11/11/2020
13C2-PFTeDA	125 D	G1766-FS-D(3)	11/11/2020
d3-MeFOSAA	96 D	G1766-FS-D(9)	11/11/2020
d5-EtFOSAA	108 D	G1766-FS-D(9)	11/11/2020
13C3-PFBS	100 D	G1766-FS-D(9)	11/11/2020
13C3-PFHxS	97 D	G1766-FS-D(9)	11/11/2020
13C8-PFOS	86 D	G1766-FS-D(9)	11/11/2020
13C3-HFPO-DA	85 D	G1766-FS-D(5)	11/11/2020



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

Client ID CBD-AOA-MW01P-1020

Battelle ID G1767-FS

Sample Type SA

Collection Date 10/19/2020

Extraction Date 10/22/2020

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

% Moisture NA

Matrix GW

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	2970 D	G1767-FS-D(9)	312.500	11/11/2020	155	442	1470
PFHpA	375-85-9	1740 D	G1767-FS-D(7)	62.500	11/11/2020	15.5	59.0	295
PFOA	335-67-1	2330 D	G1767-FS-D(7)	62.500	11/11/2020	30.1	88.4	295
PFNA	375-95-1	2130 D	G1767-FS-D(7)	62.500	11/11/2020	18.2	59.0	295
PFDA	335-76-2	225 D	G1767-FS-D(3)	5.000	11/11/2020	0.670	2.36	23.6
PFUnA	2058-94-8	942 D	G1767-FS-D(7)	62.500	11/11/2020	12.9	29.5	295
PFDoA	307-55-1	2.68 J	G1767-FS(0)	1.000	11/11/2020	0.181	0.472	4.72
PFTTrDA	72629-94-8	5.57	G1767-FS(0)	1.000	11/11/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89 U	G1767-FS(0)	1.000	11/11/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	0.843 J	G1767-FS(0)	1.000	11/11/2020	0.330	0.943	4.72
NEtFOSAA	2991-50-6	1.99 J	G1767-FS(0)	1.000	11/11/2020	0.472	0.943	4.72
PFBS	375-73-5	171	G1767-FS(0)	1.000	11/11/2020	0.136	0.472	4.72
PFHxS	355-46-4	7140 D	G1767-FS-D(9)	312.500	11/11/2020	33.0	118	1470
PFOS	1763-23-1	21600 D	G1767-FS-D(9)	312.500	11/11/2020	129	295	1470
HFPO-DA	13252-13-6	0.472 U	G1767-FS(0)	1.000	11/11/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943 U	G1767-FS(0)	1.000	11/11/2020	0.250	0.943	4.72
9CI-PF3ONS	756426-58-1	0.472 U	G1767-FS(0)	1.000	11/11/2020	0.253	0.472	4.72
11CI-PF3OUdS	763051-92-9	0.943 U	G1767-FS(0)	1.000	11/11/2020	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-MW01P-1020
 Battelle ID G1767-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	94 D	G1767-FS-D(9)	11/11/2020
13C4-PFHpA	86 D	G1767-FS-D(7)	11/11/2020
13C8-PFOA	91 D	G1767-FS-D(7)	11/11/2020
13C9-PFNA	70 D	G1767-FS-D(7)	11/11/2020
13C6-PFDA	94 D	G1767-FS-D(3)	11/11/2020
13C7-PFUnA	102 D	G1767-FS-D(7)	11/11/2020
13C2-PFDoA	123 D	G1767-FS-D(3)	11/11/2020
13C2-PFTeDA	128 D	G1767-FS-D(3)	11/11/2020
d3-MeFOSAA	99 D	G1767-FS-D(9)	11/11/2020
d5-EtFOSAA	109 D	G1767-FS-D(9)	11/11/2020
13C3-PFBS	102 D	G1767-FS-D(9)	11/11/2020
13C3-PFHxS	95 D	G1767-FS-D(9)	11/11/2020
13C8-PFOS	104 D	G1767-FS-D(9)	11/11/2020
13C3-HFPO-DA	74 D	G1767-FS-D(7)	11/11/2020



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

Client ID CBD-AOA-MW03-1020

Battelle ID G1768-FS

Sample Type SA

Collection Date 10/19/2020

Extraction Date 10/22/2020

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

% Moisture NA

Matrix GW

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	6210 D	G1768-FS-D(7)	156.250	11/11/2020	77.7	221	737
PFHpA	375-85-9	5820 D	G1768-FS-D(5)	62.500	11/11/2020	15.5	59.0	295
PFOA	335-67-1	6800 D	G1768-FS-D(7)	156.250	11/11/2020	75.3	221	737
PFNA	375-95-1	8720 D	G1768-FS-D(5)	62.500	11/11/2020	18.2	59.0	295
PFDA	335-76-2	306 D	G1768-FS-D(3)	5.000	11/11/2020	0.670	2.36	23.6
PFUnA	2058-94-8	763 D	G1768-FS-D(5)	62.500	11/11/2020	12.9	29.5	295
PFDoA	307-55-1	4.01 J	G1768-FS(0)	1.000	11/11/2020	0.181	0.472	4.72
PFTTrDA	72629-94-8	25.0	G1768-FS(0)	1.000	11/11/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89 U	G1768-FS(0)	1.000	11/11/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	1.05 J	G1768-FS(0)	1.000	11/11/2020	0.330	0.943	4.72
NEtFOSAA	2991-50-6	2.03 J	G1768-FS(0)	1.000	11/11/2020	0.472	0.943	4.72
PFBS	375-73-5	574 D	G1768-FS-D(3)	5.000	11/11/2020	0.679	2.36	23.6
PFHxS	355-46-4	25600 D	G1768-FS-D(9)	390.625	11/11/2020	41.3	147	1840
PFOS	1763-23-1	112000 D	G1768-FS-D(13)	2441.406	11/12/2020	1010	2300	11500
HFPO-DA	13252-13-6	0.472 U	G1768-FS(0)	1.000	11/11/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943 U	G1768-FS(0)	1.000	11/11/2020	0.250	0.943	4.72
9CI-PF3ONS	756426-58-1	0.472 U	G1768-FS(0)	1.000	11/11/2020	0.253	0.472	4.72
11CI-PF3OUdS	763051-92-9	0.943 U	G1768-FS(0)	1.000	11/11/2020	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-MW03-1020
 Battelle ID G1768-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	90 D	G1768-FS-D(7)	11/11/2020
13C4-PFHpA	76 D	G1768-FS-D(7)	11/11/2020
13C8-PFOA	90 D	G1768-FS-D(7)	11/11/2020
13C9-PFNA	53 D	G1768-FS-D(7)	11/11/2020
13C6-PFDA	101 D	G1768-FS-D(3)	11/11/2020
13C7-PFUnA	109 D	G1768-FS-D(5)	11/11/2020
13C2-PFDoA	144 D	G1768-FS-D(3)	11/11/2020
13C2-PFTeDA	160 ND	G1768-FS-D(3)	11/11/2020
d3-MeFOSAA	88 D	G1768-FS-D(13)	11/12/2020
d5-EtFOSAA	91 D	G1768-FS-D(13)	11/12/2020
13C3-PFBS	82 D	G1768-FS-D(13)	11/12/2020
13C3-PFHxS	79 D	G1768-FS-D(13)	11/12/2020
13C8-PFOS	82 D	G1768-FS-D(13)	11/12/2020
13C3-HFPO-DA	68 D	G1768-FS-D(7)	11/11/2020



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

Client ID CBD-AOA-MW08-1020

Battelle ID G1769-FS

Sample Type SA

Collection Date 10/19/2020

Extraction Date 10/22/2020

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

% Moisture NA

Matrix GW

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	2280 D	G1769-FS-D(7)	31.250	11/11/2020	15.8	45.1	150
PFHpA	375-85-9	881 D	G1769-FS-D(3)	5.000	11/11/2020	1.26	4.81	24.0
PFOA	335-67-1	4630 D	G1769-FS-D(9)	78.125	11/11/2020	38.4	113	376
PFNA	375-95-1	2430 D	G1769-FS-D(7)	31.250	11/11/2020	9.28	30.0	150
PFDA	335-76-2	33.6	G1769-FS(0)	1.000	11/11/2020	0.137	0.481	4.81
PFUnA	2058-94-8	3.49 J	G1769-FS(0)	1.000	11/11/2020	0.211	0.481	4.81
PFDoA	307-55-1	0.481 U	G1769-FS(0)	1.000	11/11/2020	0.185	0.481	4.81
PFTTrDA	72629-94-8	0.481 U	G1769-FS(0)	1.000	11/11/2020	0.148	0.481	4.81
PFTeDA	376-06-7	1.92 U	G1769-FS(0)	1.000	11/11/2020	0.705	1.92	4.81
NMeFOSAA	2355-31-9	0.962 U	G1769-FS(0)	1.000	11/11/2020	0.337	0.962	4.81
NEtFOSAA	2991-50-6	0.962 U	G1769-FS(0)	1.000	11/11/2020	0.481	0.962	4.81
PFBS	375-73-5	501 D	G1769-FS-D(3)	5.000	11/11/2020	0.692	2.40	24.0
PFHxS	355-46-4	7690 D	G1769-FS-D(11)	195.313	11/11/2020	21.0	75.1	939
PFOS	1763-23-1	13300 D	G1769-FS-D(11)	195.313	11/11/2020	82.1	188	939
HFPO-DA	13252-13-6	0.481 U	G1769-FS(0)	1.000	11/11/2020	0.238	0.481	4.81
Adona	919005-14-4	0.962 U	G1769-FS(0)	1.000	11/11/2020	0.255	0.962	4.81
9CI-PF3ONS	756426-58-1	0.481 U	G1769-FS(0)	1.000	11/11/2020	0.258	0.481	4.81
11CI-PF3OUdS	763051-92-9	0.962 U	G1769-FS(0)	1.000	11/11/2020	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-MW08-1020

Battelle ID G1769-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	91 D	G1769-FS-D(9)	11/11/2020
13C4-PFHpA	87 D	G1769-FS-D(9)	11/11/2020
13C8-PFOA	91 D	G1769-FS-D(9)	11/11/2020
13C9-PFNA	83 D	G1769-FS-D(9)	11/11/2020
13C6-PFDA	87	G1769-FS(0)	11/11/2020
13C7-PFUnA	99	G1769-FS(0)	11/11/2020
13C2-PFDoA	100	G1769-FS(0)	11/11/2020
13C2-PFTeDA	96	G1769-FS(0)	11/11/2020
d3-MeFOSAA	104 D	G1769-FS-D(11)	11/11/2020
d5-EtFOSAA	120 D	G1769-FS-D(11)	11/11/2020
13C3-PFBS	109 D	G1769-FS-D(11)	11/11/2020
13C3-PFHxS	106 D	G1769-FS-D(11)	11/11/2020
13C8-PFOS	96 D	G1769-FS-D(11)	11/11/2020
13C3-HFPO-DA	75 D	G1769-FS-D(9)	11/11/2020



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

Client ID CBD-AOA-MW02-1020

Battelle ID G1772-FS

Sample Type SA

Collection Date 10/19/2020

Extraction Date 10/22/2020

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

% Moisture NA

Matrix GW

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	3860 D	G1772-FS-D(7)	78.125	11/11/2020	37.4	107	355
PFHpA	375-85-9	1850 D	G1772-FS-D(3)	12.500	11/11/2020	2.99	11.4	56.8
PFOA	335-67-1	3870 D	G1772-FS-D(7)	78.125	11/11/2020	36.3	107	355
PFNA	375-95-1	31000 D	G1772-FS-D(11)	488.281	11/11/2020	137	444	2220
PFDA	335-76-2	849 D	G1772-FS-D(3)	12.500	11/11/2020	1.61	5.68	56.8
PFUnA	2058-94-8	868 D	G1772-FS-D(3)	12.500	11/11/2020	2.49	5.68	56.8
PFDoA	307-55-1	5.16	G1772-FS(0)	1.000	11/11/2020	0.175	0.455	4.55
PFTTrDA	72629-94-8	86.9	G1772-FS(0)	1.000	11/11/2020	0.140	0.455	4.55
PFTeDA	376-06-7	1.82 U	G1772-FS(0)	1.000	11/11/2020	0.666	1.82	4.55
NMeFOSAA	2355-31-9	0.909 U	G1772-FS(0)	1.000	11/11/2020	0.318	0.909	4.55
NEtFOSAA	2991-50-6	0.909 U	G1772-FS(0)	1.000	11/11/2020	0.455	0.909	4.55
PFBS	375-73-5	261	G1772-FS(0)	1.000	11/11/2020	0.131	0.455	4.55
PFHxS	355-46-4	12300 D	G1772-FS-D(9)	195.313	11/11/2020	19.9	71.0	888
PFOS	1763-23-1	171000 D	G1772-FS-D(13)	2441.406	11/11/2020	970	2220	11100
HFPO-DA	13252-13-6	0.455 U	G1772-FS(0)	1.000	11/11/2020	0.225	0.455	4.55
Adona	919005-14-4	0.909 U	G1772-FS(0)	1.000	11/11/2020	0.241	0.909	4.55
9CI-PF3ONS	756426-58-1	0.455 U	G1772-FS(0)	1.000	11/11/2020	0.244	0.455	4.55
11CI-PF3OUdS	763051-92-9	0.909 U	G1772-FS(0)	1.000	11/11/2020	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-MW02-1020

Battelle ID G1772-FS
Sample Type SA
Collection Date 10/19/2020
Extraction Date 10/22/2020
Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	95 D	G1772-FS-D(7)	11/11/2020
13C4-PFHpA	90 D	G1772-FS-D(7)	11/11/2020
13C8-PFOA	85 D	G1772-FS-D(7)	11/11/2020
13C9-PFNA	76 D	G1772-FS-D(11)	11/11/2020
13C6-PFDA	101 D	G1772-FS-D(3)	11/11/2020
13C7-PFUnA	149 D	G1772-FS-D(3)	11/11/2020
13C2-PFDoA	148 D	G1772-FS-D(3)	11/11/2020
13C2-PFTeDA	147 D	G1772-FS-D(3)	11/11/2020
d3-MeFOSAA	95 D	G1772-FS-D(13)	11/11/2020
d5-EtFOSAA	106 D	G1772-FS-D(13)	11/11/2020
13C3-PFBS	106 D	G1772-FS-D(13)	11/11/2020
13C3-PFHxS	105 D	G1772-FS-D(13)	11/11/2020
13C8-PFOS	97 D	G1772-FS-D(13)	11/11/2020
13C3-HFPO-DA	78 D	G1772-FS-D(7)	11/11/2020



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

Client ID CBD-AOA-MW18-1020

Battelle ID G1773-FS

Sample Type SA

Collection Date 10/19/2020

Extraction Date 10/22/2020

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

% Moisture NA

Matrix GW

Sample Size 0.255

Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	636 D	G1773-FS-D(3)	5.000	11/11/2020	2.58	7.35	24.5
PFHpA	375-85-9	412 D	G1773-FS-D(3)	5.000	11/11/2020	1.29	4.90	24.5
PFOA	335-67-1	1030 D	G1773-FS-D(5)	12.500	11/11/2020	6.26	18.4	61.3
PFNA	375-95-1	631 D	G1773-FS-D(3)	5.000	11/11/2020	1.51	4.90	24.5
PFDA	335-76-2	8.21	G1773-FS(0)	1.000	11/11/2020	0.139	0.490	4.90
PFUnA	2058-94-8	30.8	G1773-FS(0)	1.000	11/11/2020	0.215	0.490	4.90
PFDoA	307-55-1	0.490 U	G1773-FS(0)	1.000	11/11/2020	0.188	0.490	4.90
PFTTrDA	72629-94-8	0.490 U	G1773-FS(0)	1.000	11/11/2020	0.151	0.490	4.90
PFTeDA	376-06-7	1.96 U	G1773-FS(0)	1.000	11/11/2020	0.719	1.96	4.90
NMeFOSAA	2355-31-9	0.441 J	G1773-FS(0)	1.000	11/11/2020	0.343	0.980	4.90
NEtFOSAA	2991-50-6	0.980 U	G1773-FS(0)	1.000	11/11/2020	0.490	0.980	4.90
PFBS	375-73-5	62.0	G1773-FS(0)	1.000	11/11/2020	0.141	0.490	4.90
PFHxS	355-46-4	12800 D	G1773-FS-D(9)	156.250	11/12/2020	17.2	61.3	766
PFOS	1763-23-1	12700 D	G1773-FS-D(9)	156.250	11/12/2020	66.9	153	766
HFPO-DA	13252-13-6	0.490 U	G1773-FS(0)	1.000	11/11/2020	0.243	0.490	4.90
Adona	919005-14-4	0.980 U	G1773-FS(0)	1.000	11/11/2020	0.260	0.980	4.90
9CI-PF3ONS	756426-58-1	0.490 U	G1773-FS(0)	1.000	11/11/2020	0.263	0.490	4.90
11CI-PF3OUdS	763051-92-9	0.980 U	G1773-FS(0)	1.000	11/11/2020	0.226	0.980	4.90



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

Client ID CBD-AOA-EB01-101920-GW

Battelle ID G1774-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix AQ
 Sample Size 0.255
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1.47 U	G1774-FS(0)	1.000	11/11/2020	0.517	1.47	4.90
PFHpA	375-85-9	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.258	0.980	4.90
PFOA	335-67-1	1.47 U	G1774-FS(0)	1.000	11/11/2020	0.501	1.47	4.90
PFNA	375-95-1	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.303	0.980	4.90
PFDA	335-76-2	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.139	0.490	4.90
PFUnA	2058-94-8	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.215	0.490	4.90
PFDoA	307-55-1	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.188	0.490	4.90
PFTTrDA	72629-94-8	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.151	0.490	4.90
PFTeDA	376-06-7	1.96 U	G1774-FS(0)	1.000	11/11/2020	0.719	1.96	4.90
NMeFOSAA	2355-31-9	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.343	0.980	4.90
NEtFOSAA	2991-50-6	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.490	0.980	4.90
PFBS	375-73-5	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.141	0.490	4.90
PFHxS	355-46-4	0.392 U	G1774-FS(0)	1.000	11/11/2020	0.110	0.392	4.90
PFOS	1763-23-1	0.449 J	G1774-FS(0)	1.000	11/11/2020	0.428	0.980	4.90
HFPO-DA	13252-13-6	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.243	0.490	4.90
Adona	919005-14-4	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.260	0.980	4.90
9CI-PF3ONS	756426-58-1	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.263	0.490	4.90
11CI-PF3OUdS	763051-92-9	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.226	0.980	4.90



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

Client ID CBD-AOA-EB01-101920-GW
 Battelle ID G1774-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	69	G1774-FS(0)	11/11/2020
13C4-PFHpA	73	G1774-FS(0)	11/11/2020
13C8-PFOA	74	G1774-FS(0)	11/11/2020
13C9-PFNA	71	G1774-FS(0)	11/11/2020
13C6-PFDA	94	G1774-FS(0)	11/11/2020
13C7-PFUnA	89	G1774-FS(0)	11/11/2020
13C2-PFDoA	91	G1774-FS(0)	11/11/2020
13C2-PFTeDA	91	G1774-FS(0)	11/11/2020
d3-MeFOSAA	110	G1774-FS(0)	11/11/2020
d5-EtFOSAA	112	G1774-FS(0)	11/11/2020
13C3-PFBS	134	G1774-FS(0)	11/11/2020
13C3-PFHxS	104	G1774-FS(0)	11/11/2020
13C8-PFOS	100	G1774-FS(0)	11/11/2020
13C3-HFPO-DA	61	G1774-FS(0)	11/11/2020



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

Client ID CBD-SO3-MW01-1020

Battelle ID G1775-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix GW
 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	39.2	G1775-FS(0)	1.000	11/11/2020	0.479	1.36	4.55
PFHpA	375-85-9	14.5	G1775-FS(0)	1.000	11/11/2020	0.239	0.909	4.55
PFOA	335-67-1	59.6	G1775-FS(0)	1.000	11/11/2020	0.465	1.36	4.55
PFNA	375-95-1	67.7	G1775-FS(0)	1.000	11/11/2020	0.281	0.909	4.55
PFDA	335-76-2	0.708 J	G1775-FS(0)	1.000	11/11/2020	0.129	0.455	4.55
PFUnA	2058-94-8	2.96 J	G1775-FS(0)	1.000	11/11/2020	0.199	0.455	4.55
PFDoA	307-55-1	0.455 U	G1775-FS(0)	1.000	11/11/2020	0.175	0.455	4.55
PFTrDA	72629-94-8	0.455 U	G1775-FS(0)	1.000	11/11/2020	0.140	0.455	4.55
PFTeDA	376-06-7	1.82 U	G1775-FS(0)	1.000	11/11/2020	0.666	1.82	4.55
NMeFOSAA	2355-31-9	0.909 U	G1775-FS(0)	1.000	11/11/2020	0.318	0.909	4.55
NEtFOSAA	2991-50-6	0.909 U	G1775-FS(0)	1.000	11/11/2020	0.455	0.909	4.55
PFBS	375-73-5	7.50	G1775-FS(0)	1.000	11/11/2020	0.131	0.455	4.55
PFHxS	355-46-4	393 D	G1775-FS-D(3)	5.000	11/11/2020	0.509	1.82	22.7
PFOS	1763-23-1	1090 D	G1775-FS-D(7)	31.250	11/12/2020	12.4	28.4	142
HFPO-DA	13252-13-6	0.455 U	G1775-FS(0)	1.000	11/11/2020	0.225	0.455	4.55
Adona	919005-14-4	0.909 U	G1775-FS(0)	1.000	11/11/2020	0.241	0.909	4.55
9CI-PF3ONS	756426-58-1	0.455 U	G1775-FS(0)	1.000	11/11/2020	0.244	0.455	4.55
11CI-PF3OUdS	763051-92-9	0.909 U	G1775-FS(0)	1.000	11/11/2020	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-SO3-MW01-1020

Battelle ID G1775-FS
Sample Type SA
Collection Date 10/19/2020
Extraction Date 10/22/2020
Analytical Instrument Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	60	G1775-FS(0)	11/11/2020
13C4-PFHpA	58	G1775-FS(0)	11/11/2020
13C8-PFOA	77	G1775-FS(0)	11/11/2020
13C9-PFNA	53	G1775-FS(0)	11/11/2020
13C6-PFDA	79	G1775-FS(0)	11/11/2020
13C7-PFUnA	76	G1775-FS(0)	11/11/2020
13C2-PFDoA	82	G1775-FS(0)	11/11/2020
13C2-PFTeDA	80	G1775-FS(0)	11/11/2020
d3-MeFOSAA	118 D	G1775-FS-D(7)	11/12/2020
d5-EtFOSAA	111 D	G1775-FS-D(7)	11/12/2020
13C3-PFBS	88 D	G1775-FS-D(7)	11/12/2020
13C3-PFHxS	99 D	G1775-FS-D(7)	11/12/2020
13C8-PFOS	95 D	G1775-FS-D(7)	11/12/2020
13C3-HFPO-DA	65	G1775-FS(0)	11/11/2020



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_11/10/2020

Sample Type IB

Collection Date NA

Extraction Date NA

Analysis Date 11/10/2020

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	0.350 J	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: 11/17/2020

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_11/10/2020
Sample Type	IB
Collection Date	NA
Extraction Date	NA
Analysis Date	11/10/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS
% Moisture	NA
Matrix	Water
Sample Size	0.250
Size Unit-Basis	L

Surrogate Recoveries (%)

13C5-PFHxA	112
13C4-PFHpA	105
13C8-PFOA	102
13C9-PFNA	106
13C6-PFDA	111
13C7-PFUnA	107
13C2-PFDoA	103
13C2-PFTeDA	105
d3-MeFOSAA	100
d5-EtFOSAA	107
13C3-PFBS	100
13C3-PFHxS	91
13C8-PFOS	97
13C3-HFPO-DA	94



It can be done

Project Client: CH2M

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

Project No.: 100142218

Client ID LE58 IB

Battelle ID LE58 IB_11/12/2020

Sample Type IB

Collection Date NA

Extraction Date NA

Analysis Date 11/12/2020

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	0.387 J	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: 11/17/2020

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	LE58 IB
Battelle ID	LE58 IB_11/12/2020
Sample Type	IB
Collection Date	NA
Extraction Date	NA
Analysis Date	11/12/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS
% Moisture	NA
Matrix	Water
Sample Size	0.250
Size Unit-Basis	L

Surrogate Recoveries (%)

13C5-PFHxA	109
13C4-PFHpA	102
13C8-PFOA	106
13C9-PFNA	102
13C6-PFDA	108
13C7-PFUnA	114
13C2-PFDoA	111
13C2-PFTeDA	106
d3-MeFOSAA	97
d5-EtFOSAA	110
13C3-PFBS	100
13C3-PFHxS	103
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 DA945PB-FS
 Sample Type PB
 Collection Date 10/22/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix WATER
 Sample Size 0.255
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1.47 U	DA945PB-FS(0)	1.000	11/10/2020	0.517	1.47	4.90
PFHpA	375-85-9	0.980 U	DA945PB-FS(0)	1.000	11/10/2020	0.258	0.980	4.90
PFOA	335-67-1	1.47 U	DA945PB-FS(0)	1.000	11/10/2020	0.501	1.47	4.90
PFNA	375-95-1	0.980 U	DA945PB-FS(0)	1.000	11/10/2020	0.303	0.980	4.90
PFDA	335-76-2	0.490 U	DA945PB-FS(0)	1.000	11/10/2020	0.139	0.490	4.90
PFUnA	2058-94-8	0.490 U	DA945PB-FS(0)	1.000	11/10/2020	0.215	0.490	4.90
PFDoA	307-55-1	0.490 U	DA945PB-FS(0)	1.000	11/10/2020	0.188	0.490	4.90
PFTTrDA	72629-94-8	0.490 U	DA945PB-FS(0)	1.000	11/10/2020	0.151	0.490	4.90
PFTeDA	376-06-7	1.96 U	DA945PB-FS(0)	1.000	11/10/2020	0.719	1.96	4.90
NMeFOSAA	2355-31-9	0.980 U	DA945PB-FS(0)	1.000	11/10/2020	0.343	0.980	4.90
NEtFOSAA	2991-50-6	0.980 U	DA945PB-FS(0)	1.000	11/10/2020	0.490	0.980	4.90
PFBS	375-73-5	0.490 U	DA945PB-FS(0)	1.000	11/10/2020	0.141	0.490	4.90
PFHxS	355-46-4	0.392 U	DA945PB-FS(0)	1.000	11/10/2020	0.110	0.392	4.90
PFOS	1763-23-1	0.980 U	DA945PB-FS(0)	1.000	11/10/2020	0.428	0.980	4.90
HFPO-DA	13252-13-6	0.490 U	DA945PB-FS(0)	1.000	11/10/2020	0.243	0.490	4.90
Adona	919005-14-4	0.980 U	DA945PB-FS(0)	1.000	11/10/2020	0.260	0.980	4.90
9Cl-PF3ONS	756426-58-1	0.490 U	DA945PB-FS(0)	1.000	11/10/2020	0.263	0.490	4.90
11Cl-PF3OUdS	763051-92-9	0.980 U	DA945PB-FS(0)	1.000	11/10/2020	0.226	0.980	4.90



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

Client ID	Procedural Blank
Battelle ID	DA945PB-FS
Sample Type	PB
Collection Date	10/22/2020
Extraction Date	10/22/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	90	DA945PB-FS(0)	11/10/2020
13C4-PFHpA	84	DA945PB-FS(0)	11/10/2020
13C8-PFOA	83	DA945PB-FS(0)	11/10/2020
13C9-PFNA	88	DA945PB-FS(0)	11/10/2020
13C6-PFDA	91	DA945PB-FS(0)	11/10/2020
13C7-PFUnA	92	DA945PB-FS(0)	11/10/2020
13C2-PFDoA	91	DA945PB-FS(0)	11/10/2020
13C2-PFTeDA	86	DA945PB-FS(0)	11/10/2020
d3-MeFOSAA	94	DA945PB-FS(0)	11/10/2020
d5-EtFOSAA	97	DA945PB-FS(0)	11/10/2020
13C3-PFBS	99	DA945PB-FS(0)	11/10/2020
13C3-PFHxS	87	DA945PB-FS(0)	11/10/2020
13C8-PFOS	89	DA945PB-FS(0)	11/10/2020
13C3-HFPO-DA	75	DA945PB-FS(0)	11/10/2020



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 DA946LCS-FS
 Sample Type LCS
 Collection Date 10/22/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix WATER
 Sample Size 0.255
 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	36.1	DA946LCS-FS(0)	1.000	11/10/2020	39.6	91		72	129
PFHpA	375-85-9	34.7	DA946LCS-FS(0)	1.000	11/10/2020	39.2	89		72	130
PFOA	335-67-1	32.9	DA946LCS-FS(0)	1.000	11/10/2020	39.2	84		71	133
PFNA	375-95-1	39.0	DA946LCS-FS(0)	1.000	11/10/2020	39.2	99		69	130
PFDA	335-76-2	38.9	DA946LCS-FS(0)	1.000	11/10/2020	39.2	99		71	129
PFUnA	2058-94-8	32.5	DA946LCS-FS(0)	1.000	11/10/2020	39.2	83		69	133
PFDoA	307-55-1	36.6	DA946LCS-FS(0)	1.000	11/10/2020	39.2	93		72	134
PFTTrDA	72629-94-8	38.5	DA946LCS-FS(0)	1.000	11/10/2020	39.2	98		65	144
PFTeDA	376-06-7	37.0	DA946LCS-FS(0)	1.000	11/10/2020	39.2	94		71	132
NMeFOSAA	2355-31-9	33.4	DA946LCS-FS(0)	1.000	11/10/2020	39.2	85		65	136
NEtFOSAA	2991-50-6	33.3	DA946LCS-FS(0)	1.000	11/10/2020	39.2	85		61	135
PFBS	375-73-5	39.4	DA946LCS-FS(0)	1.000	11/10/2020	39.2	101		72	130
PFHxS	355-46-4	42.9	DA946LCS-FS(0)	1.000	11/10/2020	39.6	108		68	131
PFOS	1763-23-1	35.1	DA946LCS-FS(0)	1.000	11/10/2020	39.6	89		65	140
HFPO-DA	13252-13-6	38.3	DA946LCS-FS(0)	1.000	11/10/2020	39.2	98		74	148
Adona	919005-14-4	38.9	DA946LCS-FS(0)	1.000	11/10/2020	39.2	99		61	143
9CI-PF3ONS	756426-58-1	36.3	DA946LCS-FS(0)	1.000	11/10/2020	39.2	93		52	158
11CI-PF3OUdS	763051-92-9	35.4	DA946LCS-FS(0)	1.000	11/10/2020	39.2	90		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	DA946LCS-FS
Sample Type	LCS
Collection Date	10/22/2020
Extraction Date	10/22/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS

<i>Surrogate Recoveries (%)</i>	Recovery	Extract ID	Analysis Date
13C5-PFHxA	91	DA946LCS-FS(0)	11/10/2020
13C4-PFHpA	86	DA946LCS-FS(0)	11/10/2020
13C8-PFOA	93	DA946LCS-FS(0)	11/10/2020
13C9-PFNA	84	DA946LCS-FS(0)	11/10/2020
13C6-PFDA	86	DA946LCS-FS(0)	11/10/2020
13C7-PFUnA	87	DA946LCS-FS(0)	11/10/2020
13C2-PFDoA	90	DA946LCS-FS(0)	11/10/2020
13C2-PFTeDA	88	DA946LCS-FS(0)	11/10/2020
d3-MeFOSAA	95	DA946LCS-FS(0)	11/10/2020
d5-EtFOSAA	89	DA946LCS-FS(0)	11/10/2020
13C3-PFBS	109	DA946LCS-FS(0)	11/10/2020
13C3-PFHxS	92	DA946LCS-FS(0)	11/10/2020
13C8-PFOS	96	DA946LCS-FS(0)	11/10/2020
13C3-HFPO-DA	86	DA946LCS-FS(0)	11/10/2020



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-MW08-1020-MS	CBD-AOA-MW08-1020										
Battelle ID	G1770MS-FS	G1769-FS										
Sample Type	MS	SA										
Collection Date	10/19/2020	10/19/2020										
Extraction Date	10/22/2020	10/22/2020										
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS	Sciex 6500+ (AE) LC/MS/MS										
% Moisture	NA	NA										
Matrix	GW	GW										
Sample Size	0.275	0.260										
Size Unit-Basis	L	L										
Analyte	CAS No.	Result (ng/L)	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits Lower	Upper	
PFHxA	307-24-4	2720 D	2280 D	G1770MS-FS-D(7)	31.250	11/11/2020	45.9	959	N	72	129	
PFHpA	375-85-9	949 D	881 D	G1770MS-FS-D(3)	5.000	11/11/2020	45.5	149	N	72	130	
PFOA	335-67-1	5100 D	4630 D	G1770MS-FS-D(9)	78.125	11/11/2020	45.5	1033	N	71	133	
PFNA	375-95-1	2920 D	2430 D	G1770MS-FS-D(7)	31.250	11/11/2020	45.5	1077	N	69	130	
PFDA	335-76-2	81.1	33.6	G1770MS-FS(0)	1.000	11/11/2020	45.5	104		71	129	
PFUnA	2058-94-8	55.4	3.49 J	G1770MS-FS(0)	1.000	11/11/2020	45.5	114		69	133	
PFDoA	307-55-1	44.5	0.481 U	G1770MS-FS(0)	1.000	11/11/2020	45.5	98		72	134	
PFTrDA	72629-94-8	45.6	0.481 U	G1770MS-FS(0)	1.000	11/11/2020	45.5	100		65	144	
PFTeDA	376-06-7	43.7	1.92 U	G1770MS-FS(0)	1.000	11/11/2020	45.5	96		71	132	
NMeFOSAA	2355-31-9	42.3	0.962 U	G1770MS-FS(0)	1.000	11/11/2020	45.5	93		65	136	
NEtFOSAA	2991-50-6	38.5	0.962 U	G1770MS-FS(0)	1.000	11/11/2020	45.5	85		61	135	
PFBS	375-73-5	618 D	501 D	G1770MS-FS-D(7)	31.250	11/11/2020	45.5	257	N	72	130	
PFHxS	355-46-4	7940 D	7690 D	G1770MS-FS-D(11)	195.313	11/11/2020	45.9	545	N	68	131	
PFOS	1763-23-1	14800 D	13300 D	G1770MS-FS-D(11)	195.313	11/11/2020	45.9	3268	N	65	140	
HFPO-DA	13252-13-6	33.4	0.481 U	G1770MS-FS(0)	1.000	11/11/2020	45.5	73	N	74	148	
Adona	919005-14-4	64.5	0.962 U	G1770MS-FS(0)	1.000	11/11/2020	45.5	142		61	143	
9CI-PF3ONS	756426-58-1	32.3	0.481 U	G1770MS-FS(0)	1.000	11/11/2020	45.5	71		52	158	
11CI-PF3OUdS	763051-92-9	39.8	0.962 U	G1770MS-FS(0)	1.000	11/11/2020	45.5	87		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-MW08-1020-MS	CBD-AOA-MW08-1020
Battelle ID	G1770MS-FS	G1769-FS
Sample Type	MS	SA
Collection Date	10/19/2020	10/19/2020
Extraction Date	10/22/2020	10/22/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS	Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	91 D	G1770MS-FS-D(9)	11/11/2020
13C4-PFHpA	78 D	G1770MS-FS-D(9)	11/11/2020
13C8-PFOA	85 D	G1770MS-FS-D(9)	11/11/2020
13C9-PFNA	75 D	G1770MS-FS-D(9)	11/11/2020
13C6-PFDA	81	G1770MS-FS(0)	11/11/2020
13C7-PFUnA	98	G1770MS-FS(0)	11/11/2020
13C2-PFDoA	113	G1770MS-FS(0)	11/11/2020
13C2-PFTeDA	120	G1770MS-FS(0)	11/11/2020
d3-MeFOSAA	104 D	G1770MS-FS-D(11)	11/11/2020
d5-EtFOSAA	117 D	G1770MS-FS-D(11)	11/11/2020
13C3-PFBS	110 D	G1770MS-FS-D(11)	11/11/2020
13C3-PFHxS	107 D	G1770MS-FS-D(11)	11/11/2020
13C8-PFOS	103 D	G1770MS-FS-D(11)	11/11/2020
13C3-HFPO-DA	75 D	G1770MS-FS-D(9)	11/11/2020



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-MW08-1020-SD	CBD-AOA-MW08-1020
Battelle ID	G1771MSD-FS	G1769-FS
Sample Type	MSD	SA
Collection Date	10/19/2020	10/19/2020
Extraction Date	10/22/2020	10/22/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS	Sciex 6500+ (AE) LC/MS/MS
% Moisture	NA	NA
Matrix	GW	GW
Sample Size	0.265	0.260
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	2420 D	2280 D	G1771MSD-FS-D(7)	31.250	11/11/2020	47.6	294	N	72	129	106.1	N	≤ 30
PFHpA	375-85-9	952 D	881 D	G1771MSD-FS-D(3)	5.000	11/11/2020	47.2	150	N	72	130	0.7		≤ 30
PFOA	335-67-1	4870 D	4630 D	G1771MSD-FS-D(9)	78.125	11/11/2020	47.2	508	N	71	133	68.1	N	≤ 30
PFNA	375-95-1	2770 D	2430 D	G1771MSD-FS-D(7)	31.250	11/11/2020	47.2	720	N	69	130	39.7	N	≤ 30
PFDA	335-76-2	74.0	33.6	G1771MSD-FS(0)	1.000	11/11/2020	47.2	86		71	129	18.9		≤ 30
PFUnA	2058-94-8	51.5	3.49 J	G1771MSD-FS(0)	1.000	11/11/2020	47.2	102		69	133	11.1		≤ 30
PFDoA	307-55-1	46.1	0.481 U	G1771MSD-FS(0)	1.000	11/11/2020	47.2	98		72	134	0.0		≤ 30
PFTrDA	72629-94-8	49.7	0.481 U	G1771MSD-FS(0)	1.000	11/11/2020	47.2	105		65	144	4.9		≤ 30
PFTeDA	376-06-7	44.0	1.92 U	G1771MSD-FS(0)	1.000	11/11/2020	47.2	93		71	132	3.2		≤ 30
NMeFOSAA	2355-31-9	45.1	0.962 U	G1771MSD-FS(0)	1.000	11/11/2020	47.2	96		65	136	3.2		≤ 30
NEtFOSAA	2991-50-6	38.7	0.962 U	G1771MSD-FS(0)	1.000	11/11/2020	47.2	82		61	135	3.6		≤ 30
PFBS	375-73-5	600 D	501 D	G1771MSD-FS-D(7)	31.250	11/11/2020	47.2	210	N	72	130	20.1		≤ 30
PFHxS	355-46-4	8270 D	7690 D	G1771MSD-FS-D(11)	195.313	11/11/2020	47.6	1218	N	68	131	76.3	N	≤ 30
PFOS	1763-23-1	13200 D	13300 D	G1771MSD-FS-D(11)	195.313	11/11/2020	47.6	0	N	65	140	200.0	N	≤ 30
HFPO-DA	13252-13-6	30.1	0.481 U	G1771MSD-FS(0)	1.000	11/11/2020	47.2	64	N	74	148	13.1		≤ 30
Adona	919005-14-4	60.6	0.962 U	G1771MSD-FS(0)	1.000	11/11/2020	47.2	128		61	143	10.4		≤ 30
9CI-PF3ONS	756426-58-1	34.6	0.481 U	G1771MSD-FS(0)	1.000	11/11/2020	47.2	73		52	158	2.8		≤ 30
11CI-PF3OUdS	763051-92-9	40.6	0.962 U	G1771MSD-FS(0)	1.000	11/11/2020	47.2	86		59	147	1.2		≤ 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-MW08-1020-SD	CBD-AOA-MW08-1020
Battelle ID	G1771MSD-FS	G1769-FS
Sample Type	MSD	SA
Collection Date	10/19/2020	10/19/2020
Extraction Date	10/22/2020	10/22/2020
Analytical Instrument	Sciex 6500+ (AE) LC/MS/MS	Sciex 6500+ (AE) LC/MS/MS

Surrogate Recoveries (%)	Recovery	Extract ID	Analysis Date
13C5-PFHxA	87 D	G1771MSD-FS-D(9)	11/11/2020
13C4-PFHpA	80 D	G1771MSD-FS-D(9)	11/11/2020
13C8-PFOA	90 D	G1771MSD-FS-D(9)	11/11/2020
13C9-PFNA	79 D	G1771MSD-FS-D(9)	11/11/2020
13C6-PFDA	83	G1771MSD-FS(0)	11/11/2020
13C7-PFUnA	98	G1771MSD-FS(0)	11/11/2020
13C2-PFDoA	103	G1771MSD-FS(0)	11/11/2020
13C2-PFTeDA	99	G1771MSD-FS(0)	11/11/2020
d3-MeFOSAA	95 D	G1771MSD-FS-D(11)	11/11/2020
d5-EtFOSAA	111 D	G1771MSD-FS-D(11)	11/11/2020
13C3-PFBS	97 D	G1771MSD-FS-D(11)	11/11/2020
13C3-PFHxS	93 D	G1771MSD-FS-D(11)	11/11/2020
13C8-PFOS	96 D	G1771MSD-FS-D(11)	11/11/2020
13C3-HFPO-DA	73 D	G1771MSD-FS-D(9)	11/11/2020



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 20-1321

Project:	CTO-4532: NRL Chesapeake Bay Detachment (NRL-CBD) Site 10
Client Project Manager:	Michael Zamboni
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	AQ, GW
Data Set:	DP-20-1200
Analytical SOP:	5-369
Method Reference:	PFAS to QSM 5.3 Table B-15

Sample Custody		
Collection Date	Receipt Date	Temp (°C)
10/19/2020	10/20/2020	1.3

Corrective Actions	None.
Sample Storage	The samples were stored refrigerated until extraction.
Related samples	Sample G1773-FS (CBD-AOA-MW18-1020) re-extracted in SDG 20-1481 to verify the 13C2-PFTeDA recovery.

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 G1765-FS (CBD-AOA-MW04-1020), G1766-FS (CBD-AOA-MW01-1020), G1767-FS (CBD-AOA-MW01P-1020), G1768-FS (CBD-AOA-MW03-1020), G1769-FS (CBD-AOA-MW08-1020), G1770MS-FS (CBD-AOA-MW08-1020-MS), G1771MSD-FS (CBD-AOA-MW08-1020-SD), and G1773-FS (CBD-AOA-MW18-1020) contained particulates.</p> <p>Samples G1772-FS (CBD-AOA-MW02-1020) and G1775-FS (CBD-SO3-MW01-1020) 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	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.

**QA/QC Summary
Batch 20-1321**

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>9Cl-PF3ONS and 11Cl-PF3OUdS are quantified using 13C2-PFDoA.</p> <p>Adona is quantified using 13C3-PFHxS.</p> <p>9Cl-PF3ONS in the level one for the secondary transition (quant method 20-1321A) 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>
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Holding Times	Extraction Date(s)	Analysis Date(s)
	10/22/2020	11/10 – 13/2020

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	No exceedances noted.
Samples >10x PB	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	<p>Sixteen (16) recovery and five (5) precision exceedances noted.</p> <p>Except for HFPO-DA, the recoveries are impacted by the concentrations in the background sample are above the concentration fortified into the MS/MSD samples.</p> <p>HFPO-DA in the MS and MS were both under-recovered, however, the RPD passed. This analyte also passed in the LCS sample. Samples were reanalyzed, confirming the original results. The quant reports for data not reported is included in the unused data section of the full data package.</p>

QA/QC Summary Batch 20-1321

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	Two (2) exceedances noted.					
	<p>Two 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;"> <tr> <td></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">13C2-PFTeDA</td> </tr> <tr> <td>G1768-FS (CBD-AOA-MW03-1020)</td> <td style="text-align: center;">P</td> </tr> <tr> <td>G1773-FS (CBD-AOA-MW18-1020)</td> <td style="text-align: center;">↓</td> </tr> </table> <p>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. Samples with passing area are not re-extracted.</p>		13C2-PFTeDA	G1768-FS (CBD-AOA-MW03-1020)	P	G1773-FS (CBD-AOA-MW18-1020)
	13C2-PFTeDA					
G1768-FS (CBD-AOA-MW03-1020)	P					
G1773-FS (CBD-AOA-MW18-1020)	↓					
Internal Standard Analytes	Labelled analog compounds were added prior to analysis.					
+/- 50% of the area of the L5 calibration point.	No exceedances noted.					
	There are 33 instances of 13C2-PFOA, 13C2-PFDA and/or 13C4-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.					
	<p>The following secondary transitions are outside of criteria:</p> <ul style="list-style-type: none"> • HFPO-DA in LD76 CCV (11/11/2020 11:09:02) <p>The secondary transition is monitored solely for peak identification, not quantification. There is no impact on the reported data.</p>					

**QA/QC Summary
Batch 20-1321**

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: 20-1321
 Data Set: DP-20-1200
 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	16	PFHxA, PFHpA, PFOA, PFNA, PFBS, PFHxS and PFOS recoveries are impacted by the concentrations in the background sample are above the concentration fortified into the MS/MSD samples. HFPO-DA was confirmed with the reanalysis of a fresh aliquot. DMS 11/13/2020
Matrix Spike / Matrix Spike Duplicate Precision	5	PFHxA, PFOA, PFNA, PFBS and PFHxS and PFOS precision is impacted by the concentrations in the background sample are above the concentration fortified into the MS/MSD samples. DMS 11/13/2020
Extracted Internal Standard Analytes (Surrogates)	2	There are two extracted internal standard analytes that do not meet passing criteria. A fresh aliquot was taken, run and the results confirmed. DMS 11/13/2020
Instrument Calibration	0	None
Instrument Blank	0	None
Independent Calibration Check	0	None
Continuing Calibration Verification	0	None



It can be done

BATTELLE - NORWELL OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

Project Title:	CTO-4532: NRL Chesapeake Bay Detac	Data Set Number:	DP-20-1200
Project Number:	100142218	Prep Batch Number:	20-1321
Entered By:	Denise Schumitz	Entered On:	11/13/2020
Test Code (Matrix Type):	Master_369B(L)		

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).
DMS 11/13/2020

ADONA is being quantified off 13C3-PFHxS instead of 13C3-HFPO-DA, in both BASE methods.
DMS 11/13/2020

9CI-PF3ONS and 11CI-PF3OUdS are being quantified off 13C2-PFDoA instead of 13C3-HFPO-DA, in both BASE methods.
DMS 11/13/2020

9CI-PF3ONS in the level one for the secondary transition of the A 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 11/13/2020

The following secondary transitions are outside of criteria:

- HFPO-DA in LE76 CCV (11/11/2020 11:09:02)

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: 2020.11.16 12:51:52 -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: G1765-FS-D(9)
 Client Sample ID: CBD-AOA-MW04-1020
 Sample Size: 0.255
 Units: L
 Dilution Factor: 156.250
 PIV (L): 0.001
 Target Analyte: PFOS
 MRM Transition: 499.0 / 80.0
 Data file: AE_11112020_5-369.wiff
 Result table: 20-1321
 Area: 11,661,744.46
 IS Name: 13C8-PFOS
 IS Area: 209,737.24
 IS Amount (ng/L): 1195
 y-intercept: 0.05862
 slope: 3.77817

$$\text{Concentration} = \frac{[(11661744.46/209737.24) - 0.05862]}{3.77817} * 1195 * 0.001 * 156.25 / 0.255$$

$$\text{ng/L} = 10,764.56$$

*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: 20-1321
 Data Set: DP-20-1200

		DA945PB-FS (Procedural Blank)	DA946LCS-FS (Laboratory Control Sample)	G1770MS-FS (CBD-AOA-MW08-1020-MS)	G1771MSD-FS (CBD-AOA-MW08-1020-SD)	G1765-FS (CBD-AOA-MW04-1020)	G1766-FS (CBD-AOA-MW01-1020)	G1767-FS (CBD-AOA-MW01P-1020)	G1768-FS (CBD-AOA-MW03-1020)	G1769-FS (CBD-AOA-MW08-1020)	G1772-FS (CBD-AOA-MW02-1020)	G1773-FS (CBD-AOA-MW18-1020)	G1774-FS (CBD-AOA-EB01-101920-GW)	G1775-FS (CBD-S03-MW01-1020)
PFHxA	307-24-4	-	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
PFOA	335-67-1	-	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
PFDA	335-76-2	-	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
PFDoA	307-55-1	-	L	L	L	L	L	L	L	-	L	-	-	-
PFTTrDA	72629-94-8	-	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	L/Br	L/Br	L/Br	L/Br	-	-	L/Br	-	-
NEtFOSAA	2991-50-6	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	-	-	-	-	-
PFBS	375-73-5	-	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
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
HFPO-DA	13252-13-6	-	L	L	L	-	-	-	-	-	-	-	-	-
Adona	919005-14-4	-	L	L	L	-	-	-	-	-	-	-	-	-
9Cl-PF3ONS	756426-58-1	-	L	L	L	-	-	-	-	-	-	-	-	-
11Cl-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
LD78	L5	11/10/20 20:49	-	806,359.16	1,019,016.26	190,202.75
		Lower	-	403,179.58	509,508.13	95,101.38
		Upper	-	1,209,538.74	1,528,524.39	285,304.13

Sample Name	Sample ID	Analysis Date	13C3-PFBA	Qual	User	13C2-PFOA	Qual	User	13C2-PFDA	Qual	User	13C4-PFOS	Qual	User
LD74	L1	11/10/20 20:07	-			803,610.07			1,111,406.09			196,370.88		
LD75	L2	11/10/20 20:18	-			839,240.12			1,058,478.61			188,634.89		
LD76	L3	11/10/20 20:28	-			771,729.60			1,208,270.38			211,397.66		
LD77	L4	11/10/20 20:39	-			886,785.71			1,144,049.86			214,970.43		
LD78	L5	11/10/20 20:49	-			806,359.16			1,019,016.26			190,202.75		
LD79	L6	11/10/20 20:59	-			819,517.47			1,034,605.53			192,616.01		
LD80 IB	Instrument Blank	11/10/20 21:10	-			814,958.32			1,097,673.25			208,048.51		
LD81 ICC	ICC	11/10/20 21:20	-			903,127.60			1,081,806.51			200,709.84		
LE76 CCV	CCV	11/10/20 22:44	-			925,549.46			1,160,327.97			210,414.10		
DA945PB-FS(0)	Procedural Blank	11/10/20 23:05	-			1,026,260.64			1,269,155.76			244,323.04		
DA946LCS-FS(0)	Laboratory Control Sample	11/10/20 23:15	-			913,581.93			1,163,889.23			206,325.36		
G1765-FS(0)	CBD-AOA-MW04-1020	11/10/20 23:26	-			247,131.28	N	1	423,799.34	N	1	32,381.86	N	1
G1765-FS-D(3)	CBD-AOA-MW04-1020	11/10/20 23:36	-			578,363.21			833,980.79			77,844.27	N	1
G1765-FS-D(5)	CBD-AOA-MW04-1020	11/10/20 23:47	-			762,397.14			1,011,957.48			120,766.35		
G1765-FS-D(7)	CBD-AOA-MW04-1020	11/10/20 23:57	-			808,497.13			1,030,424.35			165,513.40		
G1765-FS-D(9)	CBD-AOA-MW04-1020	11/11/20 0:08	-			981,459.11			1,142,246.62			200,162.44		
LE77 CCV	CCV	11/11/20 0:29	-			900,968.14			1,269,955.41			209,785.44		
G1766-FS(0)	CBD-AOA-MW01-1020	11/11/20 0:39	-			225,263.71	N	1	417,381.16	N	1	19,564.97	N	1
G1766-FS-D(3)	CBD-AOA-MW01-1020	11/11/20 0:50	-			453,085.15			806,066.81			53,930.08	N	1
G1766-FS-D(5)	CBD-AOA-MW01-1020	11/11/20 1:00	-			804,884.07			1,063,356.29			134,260.26		
G1766-FS-D(7)	CBD-AOA-MW01-1020	11/11/20 1:11	-			857,715.71			1,081,679.74			169,731.72		
G1766-FS-D(9)	CBD-AOA-MW01-1020	11/11/20 1:21	-			886,638.08			1,141,398.15			206,177.26		
G1767-FS(0)	CBD-AOA-MW01P-1020	11/11/20 1:32	-			228,923.66	N	1	410,678.26	N	1	22,794.94	N	1
G1767-FS-D(3)	CBD-AOA-MW01P-1020	11/11/20 1:42	-			439,189.82			804,129.80			50,407.16	N	1
G1767-FS-D(7)	CBD-AOA-MW01P-1020	11/11/20 1:52	-			897,182.42			1,085,274.92			160,733.07		
G1767-FS-D(9)	CBD-AOA-MW01P-1020	11/11/20 2:03	-			949,298.97			1,082,560.30			196,772.74		
LE76 CCV	CCV	11/11/20 2:24	-			943,918.76			1,159,201.23			226,420.79		
G1768-FS(0)	CBD-AOA-MW03-1020	11/11/20 2:34	-			259,104.76	N	1	323,067.25	N	1	13,380.98	N	1
G1768-FS-D(3)	CBD-AOA-MW03-1020	11/11/20 2:45	-			394,454.09	N	1	645,581.84			16,011.56	N	1
G1768-FS-D(5)	CBD-AOA-MW03-1020	11/11/20 2:55	-			857,687.20			1,039,430.91			87,414.61	N	1
G1768-FS-D(7)	CBD-AOA-MW03-1020	11/11/20 3:06	-			945,958.49			1,124,558.06			128,221.95		
G1768-FS-D(9)	CBD-AOA-MW03-1020	11/11/20 3:16	-			953,502.77			1,104,435.77			169,231.80		
G1773-FS(0)	CBD-AOA-MW18-1020	11/11/20 3:37	-			421,230.61			961,938.58			57,027.83	N	1
G1773-FS-D(3)	CBD-AOA-MW18-1020	11/11/20 3:48	-			761,688.07			983,873.03			120,793.29		
G1773-FS-D(5)	CBD-AOA-MW18-1020	11/11/20 3:58	-			790,019.80			1,049,063.12			152,535.51		
LE77 CCV	CCV	11/11/20 4:19	-			925,108.20			1,099,419.76			198,319.02		
G1774-FS(0)	CBD-AOA-EB01-101920-GW	11/11/20 4:30	-			1,122,878.50			1,256,881.44			186,387.08		
G1775-FS(0)	CBD-SO3-MW01-1020	11/11/20 4:40	-			764,790.45			1,178,955.00			125,212.07		
G1775-FS-D(3)	CBD-SO3-MW01-1020	11/11/20 4:50	-			892,785.89			1,165,332.07			190,890.00		
LE76 CCV	CCV	11/11/20 5:22	-			923,245.40			1,159,680.28			215,871.51		
G1769-FS(0)	CBD-AOA-MW08-1020	11/11/20 5:32	-			343,191.27	N	1	873,183.63			29,756.56	N	1
G1769-FS-D(3)	CBD-AOA-MW08-1020	11/11/20 5:43	-			527,404.16			953,236.08			75,116.52	N	1
G1769-FS-D(7)	CBD-AOA-MW08-1020	11/11/20 6:04	-			905,635.67			1,106,544.88			152,199.89		
G1769-FS-D(9)	CBD-AOA-MW08-1020	11/11/20 6:14	-			928,200.52			1,117,350.37			191,124.23		
G1769-FS-D(11)	CBD-AOA-MW08-1020	11/11/20 6:25	-			927,174.31			1,187,703.32			189,219.20		
LE77 CCV	CCV	11/11/20 6:46	-			943,134.66			1,203,767.53			219,786.65		
G1770MS-FS(0)	CBD-AOA-MW08-1020-MS	11/11/20 6:56	-			348,052.37	N	1	767,797.94			21,636.65	N	1
G1770MS-FS-D(3)	CBD-AOA-MW08-1020-MS	11/11/20 7:07	-			517,474.01			882,060.30			57,300.21	N	1
G1770MS-FS-D(7)	CBD-AOA-MW08-1020-MS	11/11/20 7:28	-			880,829.91			1,051,259.57			138,823.57		
G1770MS-FS-D(9)	CBD-AOA-MW08-1020-MS	11/11/20 7:38	-			952,711.70			1,061,859.16			167,518.20		
G1770MS-FS-D(11)	CBD-AOA-MW08-1020-MS	11/11/20 7:49	-			968,230.22			1,106,927.50			199,937.82		
LE76 CCV	CCV	11/11/20 8:10	-			1,020,292.94			1,212,340.22			206,454.59		

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	
LD78	L5	11/10/20 20:49	-		806,359.16		1,019,016.26		190,202.75	
		Lower	-		403,179.58		509,508.13		95,101.38	
		Upper	-		1,209,538.74		1,528,524.39		285,304.13	

Sample Name	Sample ID	Analysis Date	13C3-PFBA	Qual	User	13C2-PFOA	Qual	User	13C2-PFDA	Qual	User	13C4-PFOS	Qual	User
G1771MSD-FS(0)	CBD-AOA-MW08-1020-SD	11/11/20 8:21	-			367,268.72	N	1	857,469.03			30,479.27	N	1
G1771MSD-FS-D(3)	CBD-AOA-MW08-1020-SD	11/11/20 8:31	-			542,180.85			952,876.59			63,997.72	N	1
G1771MSD-FS-D(7)	CBD-AOA-MW08-1020-SD	11/11/20 8:52	-			879,207.37			1,012,700.90			152,333.97		
G1771MSD-FS-D(9)	CBD-AOA-MW08-1020-SD	11/11/20 9:03	-			945,861.87			1,096,774.84			176,620.27		
G1771MSD-FS-D(11)	CBD-AOA-MW08-1020-SD	11/11/20 9:13	-			943,197.26			1,108,166.04			207,783.30		
LE77 CCV	CCV	11/11/20 9:34	-			958,116.70			1,139,432.48			224,361.34		
G1772-FS(0)	CBD-AOA-MW02-1020	11/11/20 9:45	-			167,856.89	N	1	166,526.68	N	1	13,754.54	N	1
G1772-FS-D(3)	CBD-AOA-MW02-1020	11/11/20 9:55	-			524,011.45			622,504.27			26,587.10	N	1
G1772-FS-D(7)	CBD-AOA-MW02-1020	11/11/20 10:16	-			836,771.68			903,066.01			80,656.24	N	1
G1772-FS-D(9)	CBD-AOA-MW02-1020	11/11/20 10:27	-			911,486.57			1,071,466.33			126,999.84		
G1772-FS-D(11)	CBD-AOA-MW02-1020	11/11/20 10:37	-			884,018.20			1,081,985.14			155,918.39		
G1772-FS-D(13)	CBD-AOA-MW02-1020	11/11/20 10:48	-			926,784.31			1,118,105.88			193,677.06		
LE76 CCV	CCV	11/11/20 11:09	-			1,012,872.67			1,167,427.64			225,098.07		

1. IS area outside of criteria, likely due to contribution from the native, extracted internal standards and natives reported from higher dilution. DMS 11/13/2020

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
LE56	L5	11/12/20 20:55	-	810,662.99	1,136,324.13	195,330.75
		Lower	-	405,331.50	568,162.07	97,665.38
		Upper	-	1,215,994.49	1,704,486.20	292,996.13

Sample Name	Sample ID	Analysis Date	13C3-PFBA	Qual	User	13C2-PFOA	Qual	User	13C2-PFDA	Qual	User	13C4-PFOS	Qual	User
LE52	L1	11/12/20 20:13	-			833,733.25			1,198,084.65			216,866.14		
LE53	L2	11/12/20 20:23	-			873,341.85			1,199,728.51			216,605.25		
LE54	L3	11/12/20 20:34	-			825,430.65			1,217,980.72			222,174.44		
LE55	L4	11/12/20 20:44	-			831,541.41			1,084,702.61			213,168.09		
LE56	L5	11/12/20 20:55	-			810,662.99			1,136,324.13			195,330.75		
LE57	L6	11/12/20 21:05	-			850,964.93			967,528.02			171,904.37		
LE58 IB	IB	11/12/20 21:16	-			786,349.60			1,061,311.15			199,490.68		
LE59 ICC	ICC	11/12/20 21:26	-			814,595.82			1,203,371.59			202,853.64		
LE55 CCV	CCV	11/12/20 23:11	-			813,475.71			1,175,974.15			200,349.30		
G1768-FS-D(13)	CBD-AOA-MW03-1020	11/12/20 23:32	-			937,448.61			1,250,537.19			247,656.19		
G1773-FS-D(9)	CBD-AOA-MW18-1020	11/12/20 23:43	-			1,011,034.31			1,403,692.91			219,793.05		
G1775-FS-D(7)	CBD-SO3-MW01-1020	11/12/20 23:53	-			987,621.19			1,415,910.83			211,601.60		
LE54 CCV	CCV	11/13/20 0:14	-			862,245.12			1,101,448.49			219,882.80		
G1766-FS(0)	CBD-AOA-MW01-1020	11/13/20 0:35	-			226,655.25	N		436,377.39	N		22,183.31	N	2
G1767-FS(0)	CBD-AOA-MW01P-1020	11/13/20 0:45	-			257,345.72	N		464,672.41	N		21,646.82	N	2
G1768-FS(0)	CBD-AOA-MW03-1020	11/13/20 0:56	-			272,874.16	N		355,408.48	N		9,921.83	N	1
G1770MS-FS(0)	CBD-AOA-MW08-1020-MS	11/13/20 1:06	-			395,597.60	N		878,805.52			24,201.72	N	1
G1771MSD-FS(0)	CBD-AOA-MW08-1020-SD	11/13/20 1:17	-			393,605.55	N		952,021.23			26,518.14	N	1
G1773-FS(0)	CBD-AOA-MW18-1020	11/13/20 1:27	-			474,660.44			976,927.12			66,752.59	N	1

1. Sample run for confirmation only. DMS 11/13/2020
2. Sample was run but was not needed. CRD 11/17/2020

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	11/10/2020 8:49:32 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Asymmetry Factor	Passing Range
PFBS_1	298.9 / 80.0	1.33	1.09	0.8 – 1.5
PFHxA_1	313.0 / 269.0	1.58	1.09	0.8 – 1.5

Sample Name	LE56	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:55:11 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Asymmetry Factor	Passing Range
PFBS_1	298.9 / 80.0	1.32	1.37	0.8 – 1.5
PFHxA_1	313.0 / 269.0	1.57	1.29	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	11/10/2020 8:59:59 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
PFBS_1	298.9 / 80.0	1.33	43	>10
PFBS_2	298.9 / 99.0	1.33	46	>10
PFHxA_1	313.0 / 269.0	1.58	56	>10
PFHxA_2	313.0 / 119.0	1.58	31	>10
PFHpA_1	363.0 / 319.0	1.91	57	>10
PFHpA_2	363.0 / 169.0	1.91	48	>10
PFHxS_1	399.0 / 80.0	1.92	38	>10
PFHxS_2	399.0 / 99.0	1.92	44	>10
PFOA_1	413.0 / 369.0	2.28	48	>10
PFOA_2	413.0 / 169.0	2.27	33	>10
PFNA_1	463.0 / 419.0	2.65	45	>10
PFNA_2	463.0 / 219.0	2.65	38	>10
PFOS_1	499.0 / 80.0	2.64	52	>10
PFOS_2	499.0 / 99.0	2.64	44	>10
PFDA_1	513.0 / 469.0	3.00	41	>10
PFDA_2	513.0 / 219.0	3.00	42	>10
PFUnA_1	563.0 / 519.0	3.32	67	>10
PFUnA_2	563.0 / 269.0	3.32	46	>10
PFDoA_1	613.0 / 569.0	3.61	95	>10
PFDoA_2	613.0 / 319.0	3.61	61	>10
PFTrDA_1	663.0 / 619.0	3.86	85	>10
PFTrDA_2	663.0 / 169.0	3.86	73	>10
PFTeDA_1	713.0 / 669.0	4.09	96	>10
PFTeDA_2	713.0 / 169.0	4.09	80	>10
NMeFOSAA_1	570.0 / 419.0	3.14	67	>10
NMeFOSAA_2	570.0 / 512.0	3.14	71	>10
NEtFOSAA_1	584.0 / 419.0	3.31	63	>10
NEtFOSAA_2	584.0 / 483.0	3.31	66	>10
HFPO-DA_1	285.0 / 169.0	1.67	21	>10
HFPO-DA_2	285.0 / 118.8	1.67	35	>10
ADONA_1	377.0 / 251.0	1.95	50	>10
ADONA_2	377.0 / 85.0	1.95	33	>10
9Cl-PF3ONS_1	531.0 / 351.0	2.85	37	>10
9Cl-PF3ONS_2	531.0 / 83.0	2.85	38	>10
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	83	>10
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	34	>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	11/10/2020 8:59:59 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
13C2-PFDoA	615.0 / 570.0	3.61	45	>10
d3-MeFOSAA	573.0 / 419.0	3.14	32	>10
d5-EtFOSAA	589.0 / 419.0	3.31	37	>10
13C5-PFHxA	318.0 / 273.0	1.57	38	>10
13C4-PFHpA	367.0 / 322.0	1.90	37	>10
13C8-PFOA	421.0 / 376.0	2.27	37	>10
13C9-PFNA	472.0 / 427.0	2.64	47	>10
13C6-PFDA	519.0 / 474.0	3.00	41	>10
13C7-PFUnA	570.0 / 525.0	3.32	37	>10
13C2-PFTeDA	715.0 / 670.0	4.08	72	>10
13C3-PFBS	302.0 / 99.0	1.32	12	>10
13C3-PFHxS	402.0 / 99.0	1.92	28	>10
13C8-PFOS	507.0 / 99.0	2.63	33	>10
13C3-HFPO-DA	287.0 / 169.0	1.67	37	>10

Sample Name	LE57	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:05:40 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
PFBS_1	298.9 / 80.0	1.32	57	>10
PFBS_2	298.9 / 99.0	1.32	64	>10
PFHxA_1	313.0 / 269.0	1.56	39	>10
PFHxA_2	313.0 / 119.0	1.56	38	>10
PFHpA_1	363.0 / 319.0	1.89	46	>10
PFHpA_2	363.0 / 169.0	1.89	30	>10
PFHxS_1	399.0 / 80.0	1.90	46	>10
PFHxS_2	399.0 / 99.0	1.89	46	>10
PFOA_1	413.0 / 369.0	2.25	35	>10
PFOA_2	413.0 / 169.0	2.25	30	>10
PFNA_1	463.0 / 419.0	2.62	39	>10
PFNA_2	463.0 / 219.0	2.62	38	>10
PFOS_1	499.0 / 80.0	2.61	62	>10
PFOS_2	499.0 / 99.0	2.61	57	>10
PFDA_1	513.0 / 469.0	2.97	65	>10
PFDA_2	513.0 / 219.0	2.97	49	>10
PFUnA_1	563.0 / 519.0	3.30	68	>10
PFUnA_2	563.0 / 269.0	3.30	59	>10
PFDoA_1	613.0 / 569.0	3.59	95	>10
PFDoA_2	613.0 / 319.0	3.59	59	>10
PFTTrDA_1	663.0 / 619.0	3.85	94	>10
PFTTrDA_2	663.0 / 169.0	3.84	76	>10
PFTeDA_1	713.0 / 669.0	4.08	114	>10
PFTeDA_2	713.0 / 169.0	4.08	77	>10
NMeFOSAA_1	570.0 / 419.0	3.12	58	>10
NMeFOSAA_2	570.0 / 512.0	3.12	73	>10
NEtFOSAA_1	584.0 / 419.0	3.29	64	>10
NEtFOSAA_2	584.0 / 483.0	3.29	49	>10
HFPO-DA_1	285.0 / 169.0	1.65	54	>10
HFPO-DA_2	285.0 / 118.8	1.65	34	>10
ADONA_1	377.0 / 251.0	1.92	51	>10
ADONA_2	377.0 / 85.0	1.92	31	>10
9Cl-PF3ONS_1	531.0 / 351.0	2.82	48	>10
9Cl-PF3ONS_2	531.0 / 83.0	2.82	28	>10
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	60	>10
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	31	>10

Sample Name	LE57	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:05:40 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
13C2-PFDoA	615.0 / 570.0	3.59	54	>10
d3-MeFOSAA	573.0 / 419.0	3.12	28	>10
d5-EtFOSAA	589.0 / 419.0	3.28	29	>10
13C5-PFHxA	318.0 / 273.0	1.55	33	>10
13C4-PFHpA	367.0 / 322.0	1.88	42	>10
13C8-PFOA	421.0 / 376.0	2.24	30	>10
13C9-PFNA	472.0 / 427.0	2.61	34	>10
13C6-PFDA	519.0 / 474.0	2.97	36	>10
13C7-PFUnA	570.0 / 525.0	3.29	40	>10
13C2-PFTeDA	715.0 / 670.0	4.07	75	>10
13C3-PFBS	302.0 / 99.0	1.31	41	>10
13C3-PFHxS	402.0 / 99.0	1.89	44	>10
13C8-PFOS	507.0 / 99.0	2.61	42	>10
13C3-HFPO-DA	287.0 / 169.0	1.64	31	>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



Zef Scientific Inc.

12707 High Bluff Dr.
Suite 200
San Diego, CA
USA 92130

1975 Hymus Blvd.
Suite 230
Dorval, QC
Canada H9P 1J8

Phone: 1.866.854.7988

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:** _____

**Zef Scientific Inc.**

12707 High Bluff Dr.
Suite 200
San Diego, CA
USA 92130

1975 Hymus Blvd.
Suite 230
Dorval, QC
Canada H9P 1J8

Phone: 1.866.854.7988

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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 1.1×10^{-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

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Suite 200
San Diego, CA
USA 92130

1975 Hymus Blvd.
Suite 230
Dorval, QC
Canada H9P 1J8

Phone: 1.866.854.7988

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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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USA 92130

1975 Hymus Blvd.
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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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USA 92130

1975 Hymus Blvd.
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Dorval, QC
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Phone: 1.866.854.7988

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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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San Diego, CA
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Dorval, QC
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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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San Diego, CA
USA 92130

1975 Hymus Blvd.
Suite 230
Dorval, QC
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Phone: 1.866.854.7988

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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		$\geq 8.0^{e6}$		0.6 to 0.8
Q1 500.380		$\geq 3.68^{e7}$		0.6 to 0.8
Q1 616.464		$\geq 2.4^{e7}$		0.6 to 0.8
Q1 906.673		$\geq 1.0^{e8}$		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		$\geq 8.0^{e6}$		0.6 to 0.8
Q3 500.380		$\geq 3.68^{e7}$		0.6 to 0.8
Q3 616.464		$\geq 2.4^{e7}$		0.6 to 0.8
Q3 906.673		$\geq 1.0^{e8}$		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		$\geq 1.8^{e7}$		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		$\geq 1.8^{e7}$		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

**Zef Scientific Inc.**

12707 High Bluff Dr.
Suite 200
San Diego, CA
USA 92130

1975 Hymus Blvd.
Suite 230
Dorval, QC
Canada H9P 1J8

Phone: 1.866.854.7988

Triple Quad 6500+

LC/MS/MS Detector System
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
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-01
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-02
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-03
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-04
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-05
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-06
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-07
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-08
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-09
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-10
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-11
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-12
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-13
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-14
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-15
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-16
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-17
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-18
LE39	PFAS - DoD Low Level Labelled Extracted Internal Standard	LB74	-	-	200721-19
LE39	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
LE40	PFAS - DoD Internal Standard Spiking Solution	LB75	-	-	200721-21
LE40	PFAS - DoD Internal Standard Spiking Solution	LB75	-	-	200721-22
LE40	PFAS - DoD Internal Standard Spiking Solution	LB75	-	-	200721-23
LE40	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

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
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
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

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
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
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

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
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
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

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
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
LE52	PFAS - DoD Calibration L1	LB78	LB75	-	200721-21
LE52	PFAS - DoD Calibration L1	LB78	LB75	-	200721-22
LE52	PFAS - DoD Calibration L1	LB78	LB75	-	200721-23
LE52	PFAS - DoD Calibration L1	LB78	LB75	-	200721-24
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-01
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-02
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-03
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-04
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-05
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-06
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-07
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-08
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-09
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-10
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-11
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-12
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-13
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-14
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-15
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-16
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-17
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-18
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-19
LE52	PFAS - DoD Calibration L1	LD73	LB74	-	200721-20
LE52	PFAS - DoD Calibration L1	LE51	LE50	LC24	200811-01
LE52	PFAS - DoD Calibration L1	LE51	LE50	LC24	200811-02
LE52	PFAS - DoD Calibration L1	LE51	LE50	LC24	200811-03
LE52	PFAS - DoD Calibration L1	LE51	LE50	-	200914-01
LE53	PFAS - DoD Calibration L2	LB78	LB75	-	200721-21
LE53	PFAS - DoD Calibration L2	LB78	LB75	-	200721-22
LE53	PFAS - DoD Calibration L2	LB78	LB75	-	200721-23
LE53	PFAS - DoD Calibration L2	LB78	LB75	-	200721-24
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-01
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-02
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-03
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-04
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-05
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-06
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-07
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-08
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-09
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-10
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-11
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-12
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-13
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-14

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-15
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-16
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-17
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-18
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-19
LE53	PFAS - DoD Calibration L2	LD73	LB74	-	200721-20
LE53	PFAS - DoD Calibration L2	LE51	LE50	LC24	200811-01
LE53	PFAS - DoD Calibration L2	LE51	LE50	LC24	200811-02
LE53	PFAS - DoD Calibration L2	LE51	LE50	LC24	200811-03
LE53	PFAS - DoD Calibration L2	LE51	LE50	-	200914-01
LE54	PFAS - DoD Calibration L3	LB78	LB75	-	200721-21
LE54	PFAS - DoD Calibration L3	LB78	LB75	-	200721-22
LE54	PFAS - DoD Calibration L3	LB78	LB75	-	200721-23
LE54	PFAS - DoD Calibration L3	LB78	LB75	-	200721-24
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-01
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-02
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-03
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-04
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-05
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-06
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-07
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-08
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-09
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-10
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-11
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-12
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-13
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-14
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-15
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-16
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-17
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-18
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-19
LE54	PFAS - DoD Calibration L3	LD73	LB74	-	200721-20
LE54	PFAS - DoD Calibration L3	LE50	LC24	-	200811-01
LE54	PFAS - DoD Calibration L3	LE50	LC24	-	200811-02
LE54	PFAS - DoD Calibration L3	LE50	LC24	-	200811-03
LE54	PFAS - DoD Calibration L3	LE50	-	-	200914-01
LE55	PFAS - DoD Calibration L4	LB78	LB75	-	200721-21
LE55	PFAS - DoD Calibration L4	LB78	LB75	-	200721-22
LE55	PFAS - DoD Calibration L4	LB78	LB75	-	200721-23
LE55	PFAS - DoD Calibration L4	LB78	LB75	-	200721-24
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-01
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-02
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-03
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-04
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-05
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-06
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-07
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-08
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-09
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-10
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-11
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-12
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-13
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-14
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-15
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-16

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-17
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-18
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-19
LE55	PFAS - DoD Calibration L4	LD73	LB74	-	200721-20
LE55	PFAS - DoD Calibration L4	LE50	LC24	-	200811-01
LE55	PFAS - DoD Calibration L4	LE50	LC24	-	200811-02
LE55	PFAS - DoD Calibration L4	LE50	LC24	-	200811-03
LE55	PFAS - DoD Calibration L4	LE50	-	-	200914-01
LE56	PFAS - DoD Calibration L5	LB78	LB75	-	200721-21
LE56	PFAS - DoD Calibration L5	LB78	LB75	-	200721-22
LE56	PFAS - DoD Calibration L5	LB78	LB75	-	200721-23
LE56	PFAS - DoD Calibration L5	LB78	LB75	-	200721-24
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-01
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-02
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-03
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-04
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-05
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-06
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-07
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-08
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-09
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-10
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-11
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-12
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-13
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-14
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-15
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-16
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-17
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-18
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-19
LE56	PFAS - DoD Calibration L5	LD73	LB74	-	200721-20
LE56	PFAS - DoD Calibration L5	LE50	LC24	-	200811-01
LE56	PFAS - DoD Calibration L5	LE50	LC24	-	200811-02
LE56	PFAS - DoD Calibration L5	LE50	LC24	-	200811-03
LE56	PFAS - DoD Calibration L5	LE50	-	-	200914-01
LE57	PFAS - DoD Calibration L6	LB78	LB75	-	200721-21
LE57	PFAS - DoD Calibration L6	LB78	LB75	-	200721-22
LE57	PFAS - DoD Calibration L6	LB78	LB75	-	200721-23
LE57	PFAS - DoD Calibration L6	LB78	LB75	-	200721-24
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-01
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-02
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-03
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-04
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-05
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-06
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-07
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-08
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-09
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-10
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-11
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-12
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-13
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-14
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-15
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-16
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-17
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-18

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-19
LE57	PFAS - DoD Calibration L6	LD73	LB74	-	200721-20
LE57	PFAS - DoD Calibration L6	LE50	LC24	-	200811-01
LE57	PFAS - DoD Calibration L6	LE50	LC24	-	200811-02
LE57	PFAS - DoD Calibration L6	LE50	LC24	-	200811-03
LE57	PFAS - DoD Calibration L6	LE50	-	-	200914-01
LE59	PFAS - DoD ICC	LB78	LB75	-	200721-21
LE59	PFAS - DoD ICC	LB78	LB75	-	200721-22
LE59	PFAS - DoD ICC	LB78	LB75	-	200721-23
LE59	PFAS - DoD ICC	LB78	LB75	-	200721-24
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-01
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-02
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-03
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-04
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-05
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-06
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-07
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-08
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-09
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-10
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-11
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-12
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-13
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-14
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-15
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-16
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-17
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-18
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-19
LE59	PFAS - DoD ICC	LD73	LB74	-	200721-20
LE59	PFAS - DoD ICC	LE49	LC24	-	200811-01
LE59	PFAS - DoD ICC	LE49	LC24	-	200811-02
LE59	PFAS - DoD ICC	LE49	LC24	-	200811-03
LE59	PFAS - DoD ICC	LE49	-	-	200909-01
LE59	PFAS - DoD ICC	LE49	-	-	201006-07



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-butanedioic Acid	.01000
Perfluoro-n-decanedioic Acid	.01000
Perfluoro-n-dodecanedioic acid	.01000
Perfluoro-n-heptanedioic Acid	.01000
Perfluoro-n-hexanedioic acid	.01010
Perfluoro-n-octanedioic Acid	.01000
Perfluorononanedioic Acid	.01000
Perfluoro-n-pentanedioic acid	.01010
Perfluoro-n-tetradecanedioic acid	.01000
Perfluoro-n-tridecanedioic acid	.01000
Perfluoro-n-undecanedioic acid	.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: **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
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

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-octanedisulfonate	.00253
perfluoro-1-pentanedisulfonate	.00250
Perfluoro-n-butanedisulfonate	.00250
Perfluoro-n-decanedisulfonate	.00250
Perfluoro-n-dodecanedisulfonate	.00250
Perfluoro-n-heptanedisulfonate	.00250
Perfluoro-n-hexanedisulfonate	.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

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LE39**

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: 11/4/2020 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-201104-11)

Approved By: Schumitz, Denise Date: 11/5/2020 10:09:00 AM



It can be done

Standard Solution Concentrations Approved:

Standard Laboratory ID Number: LE39

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: 11/4/2020	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-201104-11)

Approved By: Schumitz, Denise **Date:** 11/5/2020 10:09:00 AM



It can be done

Standard Solution Concentrations Approved:

Standard Laboratory ID Number: LE40
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: 11/4/2020	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 (RP-201104-12)

Approved By: Schumitz, Denise **Date:** 11/5/2020 10:54:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE49

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	0	1.00	1	100.000	1	10	0.00000
1H,1H,2H,2H-Perfluorodecane sulfonate	0	1.01	1	100.000	1	10	0.00000
1H,1H,2H,2H-Perfluorohexane sulfonate	0	1.00	1	100.000	1	10	0.00000
1H,1H,2H,2H-Perfluorooctane sulfonate	0	1.00	1	100.000	1	10	0.00000
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	0	1.00	1	100.000	1	10	0.00000
Adona	0	1.00	1	100.000	1	10	0.00000
Hexafluoropropylene oxide dimer acid	0	1.00	1	100.000	1	10	0.00000
N-ethylperfluoro-octanesulfonamidoacetic acid	0	1.00	1	100.000	1	10	0.00000
N-methylperfluoro-1-octanesulfonamidoacetic acid	0	1.00	1	100.000	1	10	0.00000
Perfluoro-1-butanefluoride	0	1.00	1	100.000	1	10	0.00000
Perfluoro-1-decanesulfonate	0	1.01	1	100.000	1	10	0.00000
Perfluoro-1-heptanesulfonate	0	1.00	1	100.000	1	10	0.00000
Perfluoro-1-hexanesulfonate	0	1.01	1	100.000	1	10	0.00000
Perfluoro-1-nonanesulfonate	0	1.01	1	100.000	1	10	0.00000
Perfluoro-1-octanesulfonamide	0	1.00	1	100.000	1	10	0.00000
Perfluoro-1-octanesulfonate	0	1.01	1	100.000	1	10	0.00000
perfluoro-1-pentanesulfonate	0	1.00	1	100.000	1	10	0.00000
Perfluoro-n-butanoic Acid	0	1.00	1	100.000	1	10	0.00000
Perfluoro-n-decanoic Acid	0	1.00	1	100.000	1	10	0.00000
Perfluoro-n-dodecanoic acid	0	1.00	1	100.000	1	10	0.00000
Perfluoro-n-heptanoic Acid	0	1.00	1	100.000	1	10	0.00000
Perfluoro-n-hexanoic acid	0	1.01	1	100.000	1	10	0.00000
Perfluoro-n-octanoic Acid	0	1.00	1	100.000	1	10	0.00000
Perfluorononanoic Acid	0	1.00	1	100.000	1	10	0.00000
Perfluoro-n-pentanoic acid	0	1.01	1	100.000	1	10	0.00000
Perfluoro-n-tetradecanoic acid	0	1.00	1	100.000	1	10	0.00000
Perfluoro-n-tridecanoic acid	0	1.00	1	100.000	1	10	0.00000
Perfluoro-n-undecanoic acid	0	1.00	1	100.000	1	10	0.00000

Stock Id: 201006-07

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	1000	1.00	1	100.000	1	10	0.10000
1H,1H,2H,2H-Perfluorodecane sulfonate	1000	1.01	1	100.000	1	10	0.10100
1H,1H,2H,2H-Perfluorohexane sulfonate	1000	1.00	1	100.000	1	10	0.10000
1H,1H,2H,2H-Perfluorooctane sulfonate	1000	1.00	1	100.000	1	10	0.10000

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/10/2020 **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-201110-)

Approved By: Schumitz, Denise **Date:** 11/11/2020 1:05:00 PM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LE49**

Description: PFAS - DoD Second Source LCS/MS Solution

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	1000	1.00	1	100.000	1	10	0.10000
Adona	1000	1.00	1	100.000	1	10	0.10000
Hexafluoropropylene oxide dimer acid	1000	1.00	1	100.000	1	10	0.10000
N-ethylperfluoro-octanesulfonamidoacetic acid	1000	1.00	1	100.000	1	10	0.10000
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-1-butanedisulfonate	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-1-decanedisulfonate	1000	1.01	1	100.000	1	10	0.10100
Perfluoro-1-heptanedisulfonate	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-1-hexanedisulfonate	1000	1.01	1	100.000	1	10	0.10100
Perfluoro-1-nonanedisulfonate	1000	1.01	1	100.000	1	10	0.10100
Perfluoro-1-octanesulfonamide	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-1-octanedisulfonate	1000	1.01	1	100.000	1	10	0.10100
perfluoro-1-pentanedisulfonate	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-n-butanoic Acid	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-n-decanoic Acid	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-n-dodecanoic acid	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-n-heptanoic Acid	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-n-hexanoic acid	1000	1.01	1	100.000	1	10	0.10100
Perfluoro-n-octanoic Acid	1000	1.00	1	100.000	1	10	0.10000
Perfluorononanoic Acid	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-n-pentanoic acid	1000	1.01	1	100.000	1	10	0.10100
Perfluoro-n-tetradecanoic acid	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-n-tridecanoic acid	1000	1.00	1	100.000	1	10	0.10000
Perfluoro-n-undecanoic acid	1000	1.00	1	100.000	1	10	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	200	5.00	---	---	1	10	0.10000
3-Perfluoropentyl propanoic acid	200	5.00	---	---	1	10	0.10000
3-perfluoropropyl propanoic Acid	200	5.00	---	---	1	10	0.10000

Final Concentrations:

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

Solution Prepared By: Bailey, Kevin Date Prepared: 11/10/2020 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-201110-)

Approved By: Schumitz, Denise Date: 11/11/2020 1:05:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE49

Description: PFAS - DoD Second Source LCS/MS Solution

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-octanedisulfonate	.10100
perfluoro-1-pentanedisulfonate	.10000
Perfluoro-n-butanedioic Acid	.10000
Perfluoro-n-decanedioic Acid	.10000
Perfluoro-n-dodecanedioic acid	.10000
Perfluoro-n-heptanedioic Acid	.10000
Perfluoro-n-hexanedioic acid	.10100
Perfluoro-n-octanedioic Acid	.10000
Perfluorononanedioic Acid	.10000
Perfluoro-n-pentanedioic acid	.10100
Perfluoro-n-tetradecanedioic acid	.10000
Perfluoro-n-tridecanedioic acid	.10000
Perfluoro-n-undecanedioic acid	.10000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
200909-01	Pipette	B820865811
201006-07	Pipette	B820865811
LC24	Pipette	B814657482

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/10/2020 **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-201110-)

Approved By: Schumitz, Denise **Date:** 11/11/2020 1:05:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE50

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:** 11/12/2020 **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-201112-3)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:15:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE50

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	B820865811
LC24	Pipette	B820865811

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/12/2020 **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-201112-3)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:15:00 PM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LE51**

Description: PFAS - DoD Low ICAL Stock

Stock Id: **LE50**

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: 11/12/2020 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-201112-3)

Approved By: Schumitz, Denise Date: 11/13/2020 1:15:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE51

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-octanesulfonate	.01010
perfluoro-1-pentanesulfonate	.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-pentane sulfonate	.01010
Perfluoro-n-tetradecanedisulfonate	.01000
Perfluoro-n-tridecanedisulfonate	.01000
Perfluoro-n-undecanedisulfonate	.01000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LE50	Pipette	B820865811

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/12/2020 **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-201112-3)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:15:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE52

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: 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

Stock Id: LE51

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	0.01	---	---	1	10	0.00025
1H,1H,2H,2H-Perfluorodecane sulfonate	250	0.01	---	---	1	10	0.00025
1H,1H,2H,2H-Perfluorohexane sulfonate	250	0.01	---	---	1	10	0.00025
1H,1H,2H,2H-Perfluorooctane sulfonate	250	0.01	---	---	1	10	0.00025
3-Perfluoroheptyl propanoic acid	250	0.01	---	---	1	10	0.00025

Solution Prepared By: Bailey, Kevin Date Prepared: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: **LE52**

Description: PFAS - DoD Calibration L1

3-Perfluoropentyl propanoic acid	250	0.01	---	---	1	10	0.00025
3-perfluoropropyl propanoic Acid	250	0.01	---	---	1	10	0.00025
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	250	0.01	---	---	1	10	0.00025
Adona	250	0.01	---	---	1	10	0.00025
Hexafluoropropylene oxide dimer acid	250	0.01	---	---	1	10	0.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	250	0.01	---	---	1	10	0.00025
N-methylperfluoro-1-octanesulfonamidoacetic acid	250	0.01	---	---	1	10	0.00025
Perfluoro-1-butanefulfonate	250	0.01	---	---	1	10	0.00025
Perfluoro-1-decanesulfonate	250	0.01	---	---	1	10	0.00025
Perfluoro-1-heptanesulfonate	250	0.01	---	---	1	10	0.00025
Perfluoro-1-hexanesulfonate	250	0.01	---	---	1	10	0.00025
Perfluoro-1-nonanesulfonate	250	0.01	---	---	1	10	0.00025
Perfluoro-1-octanesulfonamide	250	0.01	---	---	1	10	0.00025
Perfluoro-1-octanesulfonate	250	0.01	---	---	1	10	0.00025
perfluoro-1-pentanesulfonate	250	0.01	---	---	1	10	0.00025
Perfluoro-n-butanoic Acid	250	0.01	---	---	1	10	0.00025
Perfluoro-n-decanoic Acid	250	0.01	---	---	1	10	0.00025
Perfluoro-n-dodecanoic acid	250	0.01	---	---	1	10	0.00025
Perfluoro-n-heptanoic Acid	250	0.01	---	---	1	10	0.00025
Perfluoro-n-hexanoic acid	250	0.01	---	---	1	10	0.00025
Perfluoro-n-octanoic Acid	250	0.01	---	---	1	10	0.00025
Perfluorononanoic Acid	250	0.01	---	---	1	10	0.00025
Perfluoro-n-pentanoic acid	250	0.01	---	---	1	10	0.00025
Perfluoro-n-tetradecanoic acid	250	0.01	---	---	1	10	0.00025
Perfluoro-n-tridecanoic acid	250	0.01	---	---	1	10	0.00025
Perfluoro-n-undecanoic acid	250	0.01	---	---	1	10	0.00025

Final Concentrations:

Analyte:	Conc (ug/mL):
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	.00025
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: 11/12/2020	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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE52

Description: PFAS - DoD Calibration L1

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	.00025
1H,1H,2H,2H-Perfluorohexane sulfonate	.00025
1H,1H,2H,2H-Perfluorooctane sulfonate	.00025
3-Perfluoroheptyl propanoic acid	.00025
3-Perfluoropentyl propanoic acid	.00025
3-perfluoropropyl propanoic Acid	.00025
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	.00025
Adona	.00025
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125
Hexafluoropropylene oxide dimer acid	.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	.00025
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00025
Perfluoro-1-butanedisulfonate	.00025
Perfluoro-1-decanedisulfonate	.00025
Perfluoro-1-heptanedisulfonate	.00025
Perfluoro-1-hexanedisulfonate	.00025
Perfluoro-1-nonanedisulfonate	.00025
Perfluoro-1-octanesulfonamide	.00025
Perfluoro-1-octanedisulfonate	.00025
perfluoro-1-pentanedisulfonate	.00025
Perfluoro-n-butanedisulfonate	.00025
Perfluoro-n-decanedisulfonate	.00025
Perfluoro-n-dodecanedisulfonate	.00025
Perfluoro-n-heptanedisulfonate	.00025
Perfluoro-n-hexanedisulfonate	.00025

Solution Prepared By: Bailey, Kevin Date Prepared: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE52

Description: PFAS - DoD Calibration L1

Perfluoro-n-octanoic Acid	.00025
Perfluorononanoic Acid	.00025
Perfluoro-n-pentanoic acid	.00025
Perfluoro-n-tetradecanoic acid	.00025
Perfluoro-n-tridecanoic acid	.00025
Perfluoro-n-undecanoic acid	.00025

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B814657482
LD73	Pipette	B814657482
LE51	Pipette	B814657482

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/12/2020 **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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LE53**

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: 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

Stock Id: LE51

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	0.01	---	---	1	10	0.00050
1H,1H,2H,2H-Perfluorodecane sulfonate	500	0.01	---	---	1	10	0.00051
1H,1H,2H,2H-Perfluorohexane sulfonate	500	0.01	---	---	1	10	0.00050
1H,1H,2H,2H-Perfluorooctane sulfonate	500	0.01	---	---	1	10	0.00050
3-Perfluoroheptyl propanoic acid	500	0.01	---	---	1	10	0.00050

Solution Prepared By: Bailey, Kevin Date Prepared: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations Approved:

Standard Laboratory ID Number: LE53

Description: PFAS - DoD Calibration L2

3-Perfluoropentyl propanoic acid	500	0.01	---	---	1	10	0.00050
3-perfluoropropyl propanoic Acid	500	0.01	---	---	1	10	0.00050
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	500	0.01	---	---	1	10	0.00050
Adona	500	0.01	---	---	1	10	0.00050
Hexafluoropropylene oxide dimer acid	500	0.01	---	---	1	10	0.00050
N-ethylperfluoro-octanesulfonamidoacetic acid	500	0.01	---	---	1	10	0.00050
N-methylperfluoro-1-octanesulfonamidoacetic acid	500	0.01	---	---	1	10	0.00050
Perfluoro-1-butanefulfonate	500	0.01	---	---	1	10	0.00050
Perfluoro-1-decanesulfonate	500	0.01	---	---	1	10	0.00051
Perfluoro-1-heptanesulfonate	500	0.01	---	---	1	10	0.00050
Perfluoro-1-hexanesulfonate	500	0.01	---	---	1	10	0.00051
Perfluoro-1-nonanesulfonate	500	0.01	---	---	1	10	0.00051
Perfluoro-1-octanesulfonamide	500	0.01	---	---	1	10	0.00050
Perfluoro-1-octanesulfonate	500	0.01	---	---	1	10	0.00051
perfluoro-1-pentanesulfonate	500	0.01	---	---	1	10	0.00050
Perfluoro-n-butanoic Acid	500	0.01	---	---	1	10	0.00050
Perfluoro-n-decanoic Acid	500	0.01	---	---	1	10	0.00050
Perfluoro-n-dodecanoic acid	500	0.01	---	---	1	10	0.00050
Perfluoro-n-heptanoic Acid	500	0.01	---	---	1	10	0.00050
Perfluoro-n-hexanoic acid	500	0.01	---	---	1	10	0.00051
Perfluoro-n-octanoic Acid	500	0.01	---	---	1	10	0.00050
Perfluorononanoic Acid	500	0.01	---	---	1	10	0.00050
Perfluoro-n-pentanoic acid	500	0.01	---	---	1	10	0.00051
Perfluoro-n-tetradecanoic acid	500	0.01	---	---	1	10	0.00050
Perfluoro-n-tridecanoic acid	500	0.01	---	---	1	10	0.00050
Perfluoro-n-undecanoic acid	500	0.01	---	---	1	10	0.00050

Final Concentrations:

Analyte:	Conc (ug/mL):
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	.00050
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: 11/12/2020	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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE53

Description: PFAS - DoD Calibration L2

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	.00051
1H,1H,2H,2H-Perfluorohexane sulfonate	.00050
1H,1H,2H,2H-Perfluorooctane sulfonate	.00050
3-Perfluoroheptyl propanoic acid	.00050
3-Perfluoropentyl propanoic acid	.00050
3-perfluoropropyl propanoic Acid	.00050
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	.00050
Adona	.00050
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125
Hexafluoropropylene oxide dimer acid	.00050
N-ethylperfluoro-octanesulfonamidoacetic acid	.00050
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00050
Perfluoro-1-butanedisulfonate	.00050
Perfluoro-1-decanedisulfonate	.00051
Perfluoro-1-heptanedisulfonate	.00050
Perfluoro-1-hexanedisulfonate	.00051
Perfluoro-1-nonanedisulfonate	.00051
Perfluoro-1-octanesulfonamide	.00050
Perfluoro-1-octanedisulfonate	.00051
perfluoro-1-pentanedisulfonate	.00050
Perfluoro-n-butanedisulfonate	.00050
Perfluoro-n-decanedisulfonate	.00050
Perfluoro-n-dodecanedisulfonate	.00050
Perfluoro-n-heptanedisulfonate	.00050
Perfluoro-n-hexanedisulfonate	.00051

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/12/2020 **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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations Approved:

Standard Laboratory ID Number: LE53

Description: PFAS - DoD Calibration L2

Perfluoro-n-octanoic Acid	.00050
Perfluorononanoic Acid	.00050
Perfluoro-n-pentanoic acid	.00051
Perfluoro-n-tetradecanoic acid	.00050
Perfluoro-n-tridecanoic acid	.00050
Perfluoro-n-undecanoic acid	.00050

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B814657482
LD73	Pipette	B814657482
LE51	Pipette	B820865811

Solution Prepared By: Bailey, Kevin	Date Prepared: 11/12/2020	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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LE54**

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: 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-PFUnA	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

Stock Id: LE50

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	400	0.10	---	---	1	40	0.00100
1H,1H,2H,2H-Perfluorodecane sulfonate	400	0.10	---	---	1	40	0.00101
1H,1H,2H,2H-Perfluorohexane sulfonate	400	0.10	---	---	1	40	0.00100
1H,1H,2H,2H-Perfluorooctane sulfonate	400	0.10	---	---	1	40	0.00100
3-Perfluoroheptyl propanoic acid	400	0.10	---	---	1	40	0.00100

Solution Prepared By: Bailey, Kevin Date Prepared: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations Approved:

Standard Laboratory ID Number: LE54

Description: PFAS - DoD Calibration L3

3-Perfluoropentyl propanoic acid	400	0.10	---	---	1	40	0.00100
3-perfluoropropyl propanoic Acid	400	0.10	---	---	1	40	0.00100
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	400	0.10	---	---	1	40	0.00100
Adona	400	0.10	---	---	1	40	0.00100
Hexafluoropropylene oxide dimer acid	400	0.10	---	---	1	40	0.00100
N-ethylperfluoro-octanesulfonamidoacetic acid	400	0.10	---	---	1	40	0.00100
N-methylperfluoro-1-octanesulfonamidoacetic acid	400	0.10	---	---	1	40	0.00100
Perfluoro-1-butanefluorobutanoate	400	0.10	---	---	1	40	0.00100
Perfluoro-1-decanesulfonate	400	0.10	---	---	1	40	0.00101
Perfluoro-1-heptanesulfonate	400	0.10	---	---	1	40	0.00100
Perfluoro-1-hexanesulfonate	400	0.10	---	---	1	40	0.00101
Perfluoro-1-nonanesulfonate	400	0.10	---	---	1	40	0.00101
Perfluoro-1-octanesulfonamide	400	0.10	---	---	1	40	0.00100
Perfluoro-1-octanesulfonate	400	0.10	---	---	1	40	0.00101
perfluoro-1-pentanesulfonate	400	0.10	---	---	1	40	0.00100
Perfluoro-n-butanoic Acid	400	0.10	---	---	1	40	0.00100
Perfluoro-n-decanoic Acid	400	0.10	---	---	1	40	0.00100
Perfluoro-n-dodecanoic acid	400	0.10	---	---	1	40	0.00100
Perfluoro-n-heptanoic Acid	400	0.10	---	---	1	40	0.00100
Perfluoro-n-hexanoic acid	400	0.10	---	---	1	40	0.00101
Perfluoro-n-octanoic Acid	400	0.10	---	---	1	40	0.00100
Perfluorononanoic Acid	400	0.10	---	---	1	40	0.00100
Perfluoro-n-pentanoic acid	400	0.10	---	---	1	40	0.00101
Perfluoro-n-tetradecanoic acid	400	0.10	---	---	1	40	0.00100
Perfluoro-n-tridecanoic acid	400	0.10	---	---	1	40	0.00100
Perfluoro-n-undecanoic acid	400	0.10	---	---	1	40	0.00100

Final Concentrations:

Analyte:	Conc (ug/mL):
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	.00100
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: 11/12/2020	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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE54

Description: PFAS - DoD Calibration L3

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	.00101
1H,1H,2H,2H-Perfluorohexane sulfonate	.00100
1H,1H,2H,2H-Perfluorooctane sulfonate	.00100
3-Perfluoroheptyl propanoic acid	.00100
3-Perfluoropentyl propanoic acid	.00100
3-perfluoropropyl propanoic Acid	.00100
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	.00100
Adona	.00100
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125
Hexafluoropropylene oxide dimer acid	.00100
N-ethylperfluoro-octanesulfonamidoacetic acid	.00100
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00100
Perfluoro-1-butanedisulfonate	.00100
Perfluoro-1-decanedisulfonate	.00101
Perfluoro-1-heptanedisulfonate	.00100
Perfluoro-1-hexanedisulfonate	.00101
Perfluoro-1-nonanedisulfonate	.00101
Perfluoro-1-octanesulfonamide	.00100
Perfluoro-1-octanedisulfonate	.00101
perfluoro-1-pentanedisulfonate	.00100
Perfluoro-n-butanedisulfonate	.00100
Perfluoro-n-decanedisulfonate	.00100
Perfluoro-n-dodecanedisulfonate	.00100
Perfluoro-n-heptanedisulfonate	.00100
Perfluoro-n-hexanedisulfonate	.00101

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/12/2020 **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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE54

Description: PFAS - DoD Calibration L3

Perfluoro-n-octanoic Acid	.00100
Perfluorononanoic Acid	.00100
Perfluoro-n-pentanoic acid	.00101
Perfluoro-n-tetradecanoic acid	.00100
Perfluoro-n-tridecanoic acid	.00100
Perfluoro-n-undecanoic acid	.00100

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B820865811
LD73	Pipette	B820865811
LE50	Pipette	B820865811

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/12/2020 **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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LE55**

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: 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-PFUnA	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

Stock Id: LE50

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	1000	0.10	---	---	1	40	0.00250
1H,1H,2H,2H-Perfluorodecane sulfonate	1000	0.10	---	---	1	40	0.00253
1H,1H,2H,2H-Perfluorohexane sulfonate	1000	0.10	---	---	1	40	0.00250
1H,1H,2H,2H-Perfluorooctane sulfonate	1000	0.10	---	---	1	40	0.00250
3-Perfluoroheptyl propanoic acid	1000	0.10	---	---	1	40	0.00250

Solution Prepared By: Bailey, Kevin Date Prepared: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations Approved:

Standard Laboratory ID Number: LE55

Description: PFAS - DoD Calibration L4

3-Perfluoropentyl propanoic acid	1000	0.10	---	---	1	40	0.00250
3-perfluoropropyl propanoic Acid	1000	0.10	---	---	1	40	0.00250
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	1000	0.10	---	---	1	40	0.00250
Adona	1000	0.10	---	---	1	40	0.00250
Hexafluoropropylene oxide dimer acid	1000	0.10	---	---	1	40	0.00250
N-ethylperfluoro-octanesulfonamidoacetic acid	1000	0.10	---	---	1	40	0.00250
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	0.10	---	---	1	40	0.00250
Perfluoro-1-butanefulfonate	1000	0.10	---	---	1	40	0.00250
Perfluoro-1-decanesulfonate	1000	0.10	---	---	1	40	0.00253
Perfluoro-1-heptanesulfonate	1000	0.10	---	---	1	40	0.00250
Perfluoro-1-hexanesulfonate	1000	0.10	---	---	1	40	0.00253
Perfluoro-1-nonanesulfonate	1000	0.10	---	---	1	40	0.00253
Perfluoro-1-octanesulfonamide	1000	0.10	---	---	1	40	0.00250
Perfluoro-1-octanesulfonate	1000	0.10	---	---	1	40	0.00253
perfluoro-1-pentanesulfonate	1000	0.10	---	---	1	40	0.00250
Perfluoro-n-butanoic Acid	1000	0.10	---	---	1	40	0.00250
Perfluoro-n-decanoic Acid	1000	0.10	---	---	1	40	0.00250
Perfluoro-n-dodecanoic acid	1000	0.10	---	---	1	40	0.00250
Perfluoro-n-heptanoic Acid	1000	0.10	---	---	1	40	0.00250
Perfluoro-n-hexanoic acid	1000	0.10	---	---	1	40	0.00253
Perfluoro-n-octanoic Acid	1000	0.10	---	---	1	40	0.00250
Perfluorononanoic Acid	1000	0.10	---	---	1	40	0.00250
Perfluoro-n-pentanoic acid	1000	0.10	---	---	1	40	0.00253
Perfluoro-n-tetradecanoic acid	1000	0.10	---	---	1	40	0.00250
Perfluoro-n-tridecanoic acid	1000	0.10	---	---	1	40	0.00250
Perfluoro-n-undecanoic acid	1000	0.10	---	---	1	40	0.00250

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: 11/12/2020	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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE55

Description: PFAS - DoD Calibration L4

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-octanedisulfonate	.00253
perfluoro-1-pentanedisulfonate	.00250
Perfluoro-n-butanedisulfonate	.00250
Perfluoro-n-decanedisulfonate	.00250
Perfluoro-n-dodecanedisulfonate	.00250
Perfluoro-n-heptanedisulfonate	.00250
Perfluoro-n-hexanedisulfonate	.00253

Solution Prepared By: Bailey, Kevin Date Prepared: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE55

Description: PFAS - DoD Calibration L4

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	B820865811
LD73	Pipette	B820865811
LE50	Pipette	B820865811

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/12/2020 **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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LE56**

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: 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

Stock Id: LE50

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	1000	0.10	---	---	1	10	0.01000
1H,1H,2H,2H-Perfluorodecane sulfonate	1000	0.10	---	---	1	10	0.01010
1H,1H,2H,2H-Perfluorohexane sulfonate	1000	0.10	---	---	1	10	0.01000
1H,1H,2H,2H-Perfluorooctane sulfonate	1000	0.10	---	---	1	10	0.01000
3-Perfluoroheptyl propanoic acid	1000	0.10	---	---	1	10	0.01000

Solution Prepared By: Bailey, Kevin Date Prepared: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LE56**

Description: PFAS - DoD Calibration L5

3-Perfluoropentyl propanoic acid	1000	0.10	---	---	1	10	0.01000
3-perfluoropropyl propanoic Acid	1000	0.10	---	---	1	10	0.01000
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	1000	0.10	---	---	1	10	0.01000
Adona	1000	0.10	---	---	1	10	0.01000
Hexafluoropropylene oxide dimer acid	1000	0.10	---	---	1	10	0.01000
N-ethylperfluoro-octanesulfonamidoacetic acid	1000	0.10	---	---	1	10	0.01000
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	0.10	---	---	1	10	0.01000
Perfluoro-1-butanefulfonate	1000	0.10	---	---	1	10	0.01000
Perfluoro-1-decanesulfonate	1000	0.10	---	---	1	10	0.01010
Perfluoro-1-heptanesulfonate	1000	0.10	---	---	1	10	0.01000
Perfluoro-1-hexanesulfonate	1000	0.10	---	---	1	10	0.01010
Perfluoro-1-nonanesulfonate	1000	0.10	---	---	1	10	0.01010
Perfluoro-1-octanesulfonamide	1000	0.10	---	---	1	10	0.01000
Perfluoro-1-octanesulfonate	1000	0.10	---	---	1	10	0.01010
perfluoro-1-pentanesulfonate	1000	0.10	---	---	1	10	0.01000
Perfluoro-n-butanoic Acid	1000	0.10	---	---	1	10	0.01000
Perfluoro-n-decanoic Acid	1000	0.10	---	---	1	10	0.01000
Perfluoro-n-dodecanoic acid	1000	0.10	---	---	1	10	0.01000
Perfluoro-n-heptanoic Acid	1000	0.10	---	---	1	10	0.01000
Perfluoro-n-hexanoic acid	1000	0.10	---	---	1	10	0.01010
Perfluoro-n-octanoic Acid	1000	0.10	---	---	1	10	0.01000
Perfluorononanoic Acid	1000	0.10	---	---	1	10	0.01000
Perfluoro-n-pentanoic acid	1000	0.10	---	---	1	10	0.01010
Perfluoro-n-tetradecanoic acid	1000	0.10	---	---	1	10	0.01000
Perfluoro-n-tridecanoic acid	1000	0.10	---	---	1	10	0.01000
Perfluoro-n-undecanoic acid	1000	0.10	---	---	1	10	0.01000

Final Concentrations:

Analyte:	Conc (ug/mL):
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	.01000
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: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations Approved:

Standard Laboratory ID Number: LE56

Description: PFAS - DoD Calibration L5

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	.01010
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
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125
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-butanedic acid	.01000
Perfluoro-n-decanedic acid	.01000
Perfluoro-n-dodecanedic acid	.01000
Perfluoro-n-heptanedic acid	.01000
Perfluoro-n-hexanedic acid	.01010

Solution Prepared By: Bailey, Kevin	Date Prepared: 11/12/2020	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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE56

Description: PFAS - DoD Calibration L5

Perfluoro-n-octanoic Acid	.01000
Perfluorononanoic Acid	.01000
Perfluoro-n-pentanoic acid	.01010
Perfluoro-n-tetradecanoic acid	.01000
Perfluoro-n-tridecanoic acid	.01000
Perfluoro-n-undecanoic acid	.01000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B814657482
LD73	Pipette	B814657482
LE50	Pipette	B820865811

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/12/2020 **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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LE57**

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: 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

Stock Id: LE50

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	2500	0.10	---	---	1	10	0.02500
1H,1H,2H,2H-Perfluorodecane sulfonate	2500	0.10	---	---	1	10	0.02525
1H,1H,2H,2H-Perfluorohexane sulfonate	2500	0.10	---	---	1	10	0.02500
1H,1H,2H,2H-Perfluorooctane sulfonate	2500	0.10	---	---	1	10	0.02500
3-Perfluoroheptyl propanoic acid	2500	0.10	---	---	1	10	0.02500

Solution Prepared By: Bailey, Kevin Date Prepared: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE57

Description: PFAS - DoD Calibration L6

3-Perfluoropentyl propanoic acid	2500	0.10	---	---	1	10	0.02500
3-perfluoropropyl propanoic Acid	2500	0.10	---	---	1	10	0.02500
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	2500	0.10	---	---	1	10	0.02500
Adona	2500	0.10	---	---	1	10	0.02500
Hexafluoropropylene oxide dimer acid	2500	0.10	---	---	1	10	0.02500
N-ethylperfluoro-octanesulfonamidoacetic acid	2500	0.10	---	---	1	10	0.02500
N-methylperfluoro-1-octanesulfonamidoacetic acid	2500	0.10	---	---	1	10	0.02500
Perfluoro-1-butanefulfonate	2500	0.10	---	---	1	10	0.02500
Perfluoro-1-decanesulfonate	2500	0.10	---	---	1	10	0.02525
Perfluoro-1-heptanesulfonate	2500	0.10	---	---	1	10	0.02500
Perfluoro-1-hexanesulfonate	2500	0.10	---	---	1	10	0.02525
Perfluoro-1-nonanesulfonate	2500	0.10	---	---	1	10	0.02525
Perfluoro-1-octanesulfonamide	2500	0.10	---	---	1	10	0.02500
Perfluoro-1-octanesulfonate	2500	0.10	---	---	1	10	0.02525
perfluoro-1-pentanesulfonate	2500	0.10	---	---	1	10	0.02500
Perfluoro-n-butanoic Acid	2500	0.10	---	---	1	10	0.02500
Perfluoro-n-decanoic Acid	2500	0.10	---	---	1	10	0.02500
Perfluoro-n-dodecanoic acid	2500	0.10	---	---	1	10	0.02500
Perfluoro-n-heptanoic Acid	2500	0.10	---	---	1	10	0.02500
Perfluoro-n-hexanoic acid	2500	0.10	---	---	1	10	0.02525
Perfluoro-n-octanoic Acid	2500	0.10	---	---	1	10	0.02500
Perfluorononanoic Acid	2500	0.10	---	---	1	10	0.02500
Perfluoro-n-pentanoic acid	2500	0.10	---	---	1	10	0.02525
Perfluoro-n-tetradecanoic acid	2500	0.10	---	---	1	10	0.02500
Perfluoro-n-tridecanoic acid	2500	0.10	---	---	1	10	0.02500
Perfluoro-n-undecanoic acid	2500	0.10	---	---	1	10	0.02500

Final Concentrations:

Analyte:	Conc (ug/mL):
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	.02500
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: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE57

Description: PFAS - DoD Calibration L6

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	.02525
1H,1H,2H,2H-Perfluorohexane sulfonate	.02500
1H,1H,2H,2H-Perfluorooctane sulfonate	.02500
3-Perfluoroheptyl propanoic acid	.02500
3-Perfluoropentyl propanoic acid	.02500
3-perfluoropropyl propanoic Acid	.02500
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	.02500
Adona	.02500
d3-MeFOSAA	.00125
d5-EtFOSAA	.00125
Hexafluoropropylene oxide dimer acid	.02500
N-ethylperfluoro-octanesulfonamidoacetic acid	.02500
N-methylperfluoro-1-octanesulfonamidoacetic acid	.02500
Perfluoro-1-butanedisulfonate	.02500
Perfluoro-1-decanedisulfonate	.02525
Perfluoro-1-heptanedisulfonate	.02500
Perfluoro-1-hexanedisulfonate	.02525
Perfluoro-1-nonanedisulfonate	.02525
Perfluoro-1-octanesulfonamide	.02500
Perfluoro-1-octanesulfonate	.02525
perfluoro-1-pentanedisulfonate	.02500
Perfluoro-n-butanedisulfonate	.02500
Perfluoro-n-decanedisulfonate	.02500
Perfluoro-n-dodecanedisulfonate	.02500
Perfluoro-n-heptanedisulfonate	.02500
Perfluoro-n-hexanedisulfonate	.02525

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/12/2020 **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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations Approved:

Standard Laboratory ID Number: LE57

Description: PFAS - DoD Calibration L6

Perfluoro-n-octanoic Acid	.02500
Perfluorononanoic Acid	.02500
Perfluoro-n-pentanoic acid	.02525
Perfluoro-n-tetradecanoic acid	.02500
Perfluoro-n-tridecanoic acid	.02500
Perfluoro-n-undecanoic acid	.02500

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
LB78	Pipette	B814657482
LD73	Pipette	B814657482
LE50	Pipette	B814657482

Solution Prepared By: Bailey, Kevin	Date Prepared: 11/12/2020	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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LE59**

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: 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

Stock Id: LE49

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

Solution Prepared By: Bailey, Kevin Date Prepared: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **LE59**

Description: PFAS - DoD ICC

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-butanedisulfonate	250	0.10	---	---	1	10	0.00250
Perfluoro-1-decanedisulfonate	250	0.10	---	---	1	10	0.00253
Perfluoro-1-heptanedisulfonate	250	0.10	---	---	1	10	0.00250
Perfluoro-1-hexanedisulfonate	250	0.10	---	---	1	10	0.00253
Perfluoro-1-nonanedisulfonate	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-pentanedisulfonate	250	0.10	---	---	1	10	0.00250
Perfluoro-n-butanedioic Acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-decanedioic Acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-dodecanedioic acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-heptanedioic Acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-hexanedioic acid	250	0.10	---	---	1	10	0.00253
Perfluoro-n-octanedioic Acid	250	0.10	---	---	1	10	0.00250
Perfluorononanedioic Acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-pentanedioic acid	250	0.10	---	---	1	10	0.00253
Perfluoro-n-tetradecanedioic acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-tridecanedioic acid	250	0.10	---	---	1	10	0.00250
Perfluoro-n-undecanedioic acid	250	0.10	---	---	1	10	0.00250

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: 11/12/2020 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-201112-19)

Approved By: Schumitz, Denise Date: 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE59

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-octanedisulfonate	.00253
perfluoro-1-pentanedisulfonate	.00250
Perfluoro-n-butanedisulfonate	.00250
Perfluoro-n-decanedisulfonate	.00250
Perfluoro-n-dodecanedisulfonate	.00250
Perfluoro-n-heptanedisulfonate	.00250
Perfluoro-n-hexanedisulfonate	.00253

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/12/2020 **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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: LE59

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
LD73	Pipette	B814657482
LE49	Pipette	B814657482

Solution Prepared By: Bailey, Kevin **Date Prepared:** 11/12/2020 **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-201112-19)

Approved By: Schumitz, Denise **Date:** 11/13/2020 1:16:00 PM



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"/>		

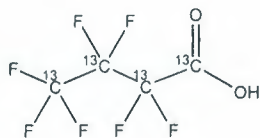
Total Analytes: 1

Notes:

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

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

PRODUCT CODE: MPFBA
COMPOUND: Perfluoro-n-[1,2,3,4-¹³C₄]butanoic acid
LOT NUMBER: MPFBA0420
STRUCTURE:
CAS #: Not available



MOLECULAR FORMULA: ¹³C₄HF₇O₂
CONCENTRATION: 50.0 ± 2.5 µg/ml
CHEMICAL PURITY: >98%
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

MOLECULAR WEIGHT: 218.01
SOLVENT(S): Methanol
Water (<1%)
ISOTOPIC PURITY: ≥99%¹³C
(1,2,3,4-¹³C₄)

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: _____

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

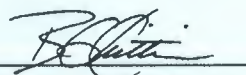
DOCUMENTATION/ DATA ATTACHED:

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

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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:	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

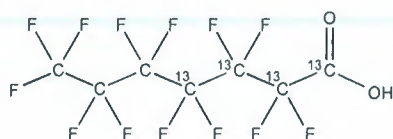
CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M4PFHpA
COMPOUND: Perfluoro-n-[1,2,3,4-¹³C₄]heptanoic acid

LOT NUMBER: M4PFHpA0120

STRUCTURE:

CAS #: Not available



MOLECULAR FORMULA: ¹³C₄¹²C₃HF₁₃O₂
CONCENTRATION: 50.0 ± 2.5 µg/ml

MOLECULAR WEIGHT: 368.03
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 01/08/2020
EXPIRY DATE: (mm/dd/yyyy) 01/08/2025

ISOTOPIC PURITY: ≥99%¹³C
(1,2,3,4-¹³C₄)

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: 
B.G. Chittim, General Manager

Date: 01/24/2020
(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:

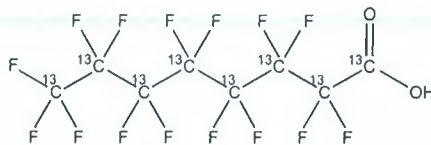
Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____



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

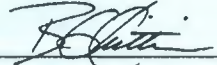
DOCUMENTATION/ DATA ATTACHED:

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:  **Date:** 01/24/2020
 B.G. Chittim, General Manager (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: _____

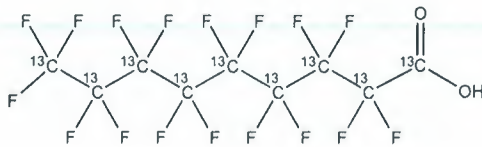


WELLINGTON LABORATORIES

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: 
B.G. Chittim, General Manager **Date:** 09/19/2018
(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: _____

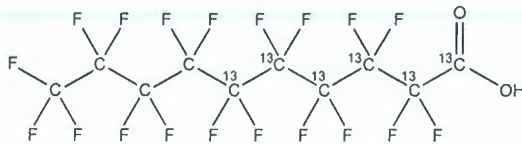
26074-07



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:

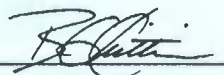
Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

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.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:


 B.G. Chittim, General Manager

Date: 07/26/2019

(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:

200721-08

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: _____

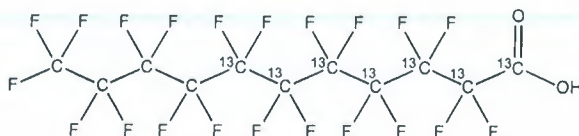
200721-08



WELLINGTON LABORATORIES

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: $^{13}\text{C}_7^{12}\text{C}_4\text{HF}_{21}\text{O}_2$ **MOLECULAR WEIGHT:** 571.04
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** $\geq 99\%$ 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:

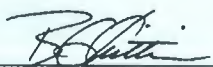
Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

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: Available:

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: _____

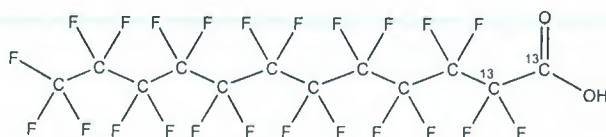
200721-09



WELLINGTON LABORATORIES

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:

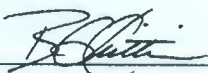
Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

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

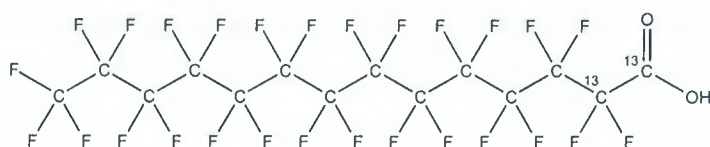
Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C2-PFTeDA	BDO-2224	50.0000	98.00	--	--	<input type="checkbox"/>		
Total Analytes:	1							

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)

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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

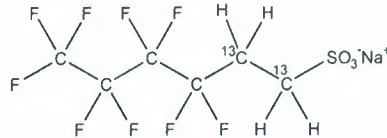


WELLINGTON LABORATORIES

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:

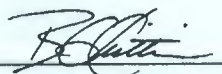
Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

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)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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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: _____

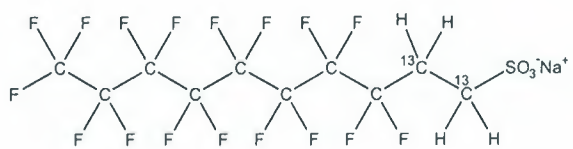


WELLINGTON LABORATORIES

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

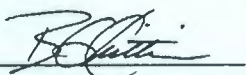
DOCUMENTATION/ DATA ATTACHED:

- 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:	Lower Limit:	Upper Limit:
13C3-PFBS	BDO-2226	46.5000	98.00	--	--	<input type="checkbox"/>		

Total Analytes: 1

Notes:

Approved by: _____ Approved on: _____

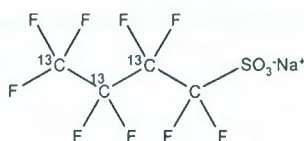
Authorized by: _____ Authorized on: _____



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:

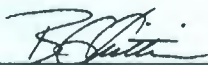
Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

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:


B.G. Chittim, General Manager

Date: 03/18/2020

(mm/dd/yyyy)

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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: _____

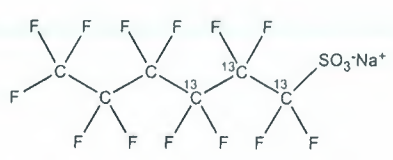


WELLINGTON LABORATORIES

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

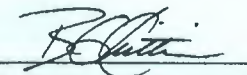
DOCUMENTATION/ DATA ATTACHED:

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

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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: _____

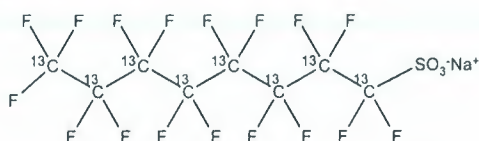
200721-16



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-[¹³C₈]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

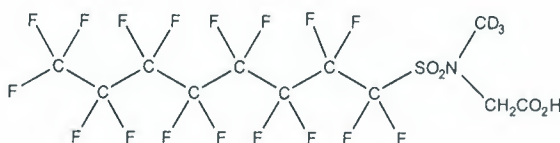


WELLINGTON LABORATORIES

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
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 574.23
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)

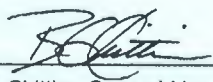
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

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: _____

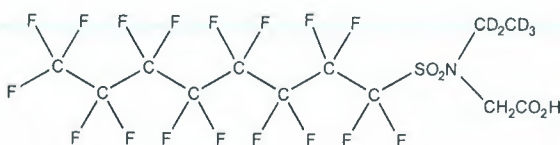


WELLINGTON LABORATORIES

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:	C ₁₂ D ₅ H ₃ F ₁₇ NO ₄ S	MOLECULAR WEIGHT:	590.26
CONCENTRATION:	50.0 ± 2.5 µg/ml	SOLVENT(S):	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	ISOTOPIC PURITY:	≥98% ² H ₅
LAST TESTED: (mm/dd/yyyy)	05/20/2020		
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.
- 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 **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: _____

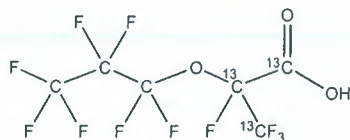


WELLINGTON LABORATORIES

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
LAST TESTED: (mm/dd/yyyy)	05/13/2020		(¹³ C ₃)
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)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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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:	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: _____

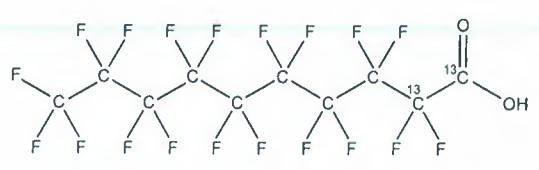


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

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

STRUCTURE: CAS #: Not available



MOLECULAR FORMULA: 13C2 12C8 HF19 O2 MOLECULAR WEIGHT: 516.07
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) 03/24/2020
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: [Signature] Date: 04/06/2020
B.G. Chittim, General Manager (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:

200721-22

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
LAST TESTED: (mm/dd/yyyy) 01/08/2020 (1,2-¹³C₂)
EXPIRY DATE: (mm/dd/yyyy) 01/08/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

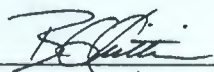
Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

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:

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 Val:	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: _____

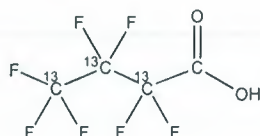


WELLINGTON LABORATORIES

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

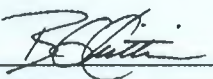
DOCUMENTATION/ DATA ATTACHED:

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)

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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: _____

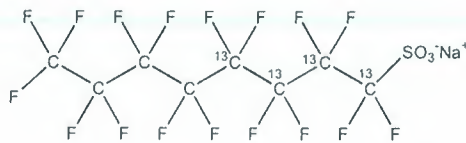


WELLINGTON LABORATORIES

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: ¹³C₄¹²C₄F₁₇SO₃Na **MOLECULAR WEIGHT:** 526.08
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
47.9 ± 2.4 µg/ml (MPFOS acid)
47.8 ± 2.4 µg/ml (MPFOS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 04/15/2020 (1,2,3,4-¹³C₄)
EXPIRY DATE: (mm/dd/yyyy) 04/15/2025
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

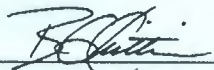
DOCUMENTATION/ DATA ATTACHED:

- 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.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

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 Val:	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:

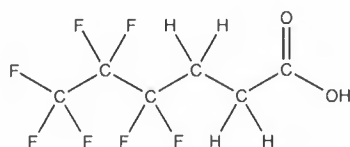
Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: FPrPA **LOT NUMBER:** FPrPA1219
COMPOUND: 3-Perfluoropropyl propanoic acid
STRUCTURE: **CAS #:** 356-02-5



MOLECULAR FORMULA: $C_6H_5F_7O_2$ **MOLECULAR WEIGHT:** 242.09
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 01/07/2020
EXPIRY DATE: (mm/dd/yyyy) 01/07/2023
RECOMMENDED STORAGE: Refrigerate ampoule

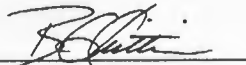
DOCUMENTATION/ DATA ATTACHED:

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% of the unsaturated 3:3 telomer acid ($C_6H_3F_7O_2$) 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:** 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:

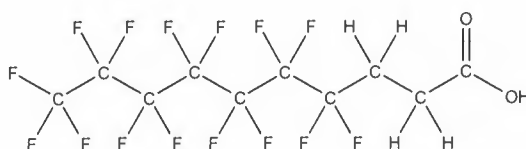
Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

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



MOLECULAR FORMULA: $C_{10}H_5F_{15}O_2$ **MOLECULAR WEIGHT:** 442.12
CONCENTRATION: $50.0 \pm 2.5 \mu\text{g/ml}$ **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

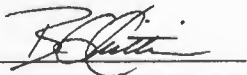
DOCUMENTATION/ DATA ATTACHED:

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 Val:	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

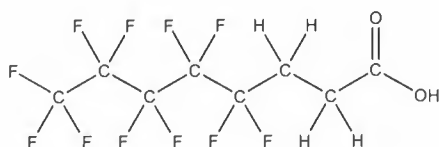
CERTIFICATE OF ANALYSIS DOCUMENTATION

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-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	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-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:** _____



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	LPFNS1119	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	LPFDS1119	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-tetrafluoropropionic 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	11ClPF30udS0320	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	9ClPF30NS0420	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 to ± 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.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



It can be done

BDO Id: 201006-07

Reagent Receipt Report

Approved: Authorized

Name: PFOA DOD **Received:** 10/6/2020
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:** _____



201006-07

CERTIFIED WEIGHT REPORT

Part Number: 64029
Lot Number: 072820
Description: PFOA - DOD
28 components

Expiration Date: 072825
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 1.0
NIST Test ID#: 23060

Solvent(s): Methanol (1 mM KOH)
2-Propanol

Lot# 042920 (98%)
23214 (2%)

5E-05 Balance Uncertainty
0.007 Flask Uncertainty

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

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-pentanoic acid	99543	110419	0.02	1.00	0.004	50.7	1.01	0.02	2708-90-3	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. Perfluoroheptanoic 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	335-87-1	N/A	lpr-rat 189mg/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	335-78-2	N/A	ort-rat 57mg/kg
8. Perfluoroundecanoic acid	99205	110419	0.02	1.00	0.004	50.1	1.00	0.01	2058-94-6	N/A	N/A
9. Tricosulfurododecanoic acid	99198	010820	0.02	1.00	0.004	50.1	1.00	0.01	307-55-1	N/A	N/A
10. Perfluorotridecanoic acid	99204	110419	0.02	1.00	0.004	50.1	1.00	0.01	72829-94-8	N/A	N/A
11. Perfluorotetradecanoic acid	99203	120319	0.02	1.00	0.004	50.1	1.00	0.01	378-08-7	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)*	4182	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)*	4183	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)*	99196	091219	0.02	1.00	0.004	50.6	1.01	0.01	355-48-4	N/A	N/A
18. Perfluoro-1-heptanesulfonic acid	3672	LPFHPS0120	0.021	1.05	0.004	47.8	1.00	0.05	375-92-8	N/A	N/A
19. Heptadecalluoroctanesulfonic 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	LPFN51119	0.021	1.05	0.004	48.0	1.01	0.05	98789-57-2	N/A	N/A
21. Perfluoro-1-decanesulfonic 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	48.7	1.00	0.05	27819-93-8	N/A	N/A
23. 1H,1H,2H,2H-Perfluorooctane sulfonic acid	3681	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	3682	82FTS0520	0.021	1.05	0.004	47.9	1.01	0.05	27819-98-1	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-Chloroicosasulfuro-3-oxaundecane-1-sulfonic acid	4185	11CIPF3OUdS0320	0.021	1.06	0.004	47.1	1.00	0.05	83329-89-9	N/A	N/A
27. 9-Chlorohexadecasulfuro-3-oxanonane-1-sulfonic acid	4184	9CIPF3ONS0420	0.021	1.07	0.004	46.6	1.00	0.05	73608-19-6	N/A	N/A
28. Dodecalfuoro-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	335-87-1	N/A	lpr-rat 189mg/kg
Perfluorooctanoic acid (branched isomer)*	99202	021820	0.02	1.00	0.004	6.0	0.12	0.002	335-87-1	N/A	lpr-rat 189mg/kg
Perfluorohexanesulfonic acid (linear)*	99196	091219	0.02	1.00	0.004	50.0	1.00	0.01	355-48-4	N/A	N/A
Perfluorohexanesulfonic acid (branched isomer)*	99196	091219	0.02	1.00	0.004	0.6	0.01	0.0002	355-48-4	N/A	N/A
Heptadecalluoroctanesulfonic acid (linear)*	99201	021820	0.02	1.00	0.004	38.2	0.78	0.01	1783-23-1	N/A	N/A
Heptadecalluoroctanesulfonic acid (branched isomer)*	99201	021820	0.02	1.00	0.004	7.5	0.15	0.002	1783-23-1	N/A	N/A
Heptadecalluoroctanesulfonic acid (branched isomer)*	99201	021820	0.02	1.00	0.004	4.0	0.08	0.001	1783-23-1	N/A	N/A
Heptadecalluoroctanesulfonic 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)*	4182	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)*	4182	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)*	4152	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)*	4182	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)*	4183	brNEIFOSAA0819	0.02	1.00	0.004	38.2	0.72	0.04	2991-50-6	N/A	N/A
N-Ethylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4183	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)*	4183	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)*	4183	brNEIFOSAA0819	0.02	1.00	0.004	0.8	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. 1.2.2) 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 caps tight and under appropriate laboratory conditions.
 • Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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
20-1321	
CTO-4532: PFAS in Water	
AQ, GW	
SOP Numbers (see workplan for modifications)	
ExtractionSOP No.	5-370

This Batch Contains The Following Samples:		
DA945PB-FS	G1769-FS	G1775-FS
DA946LCS-FS	G1770MS-FS	
G1765-FS	G1771MSD-FS	
G1766-FS	G1772-FS	
G1767-FS	G1773-FS	
G1768-FS	G1774-FS	

Laboratory Preparation Records
COMPLETE AND VALIDATED

Prep Task Leader: Kelsey Harnden

Approved By:	Date	Initials
Denise Schumitz	11/12/2020	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

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Sample ID	Description
DA945PB-FS	Procedural Blank
DA946LCS-FS	Laboratory Control Sample
G1765-FS	CBD-AOA-MW04-1020
G1766-FS	CBD-AOA-MW01-1020
G1767-FS	CBD-AOA-MW01P-1020
G1768-FS	CBD-AOA-MW03-1020
G1769-FS	CBD-AOA-MW08-1020
G1770MS-FS	Matrix Spike of CBD-AOA-MW08-1020-MS
G1771MSD-FS	Matrix Spike Duplicate of CBD-AOA-MW08-1020-SD
G1772-FS	CBD-AOA-MW02-1020
G1773-FS	CBD-AOA-MW18-1020
G1774-FS	CBD-AOA-EB01-101920-GW
G1775-FS	CBD-SO3-MW01-1020

Samples Assigned By:

Matt Schumitz

Date : October 20, 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

20-1321

CTO-4532: PFAS in Water

AQ, GW

Requested On/By: 10/22/2020 KH	Purpose: Sample Preparation
Relinquished On/By: 10/22/2020 MDS	Last Activity: Transfer
Accepted On/By: 10/22/2020 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	G1765	1	C	Consumed	NA	
2	G1766	1	C	Consumed	NA	
3	G1767	1	C	Consumed	NA	
4	G1768	1	C	Consumed	NA	
5	G1769	1	C	Consumed	NA	
6	G1772	1	C	Consumed	NA	
7	G1773	1	C	Consumed	NA	
8	G1774	1	C	Consumed	NA	
9	G1775	1	C	Consumed	NA	
Total Samples		9		* "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

20-1321

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

Sample ID	Description	Volume (mL)	Bottles	*	Date Initials
DA945PB-FS	Procedural Blank	255.0	NA	--	10/22/20 BTM
DA946LCS-FS	Laboratory Control Sample	255.0	NA	--	10/22/20 AW
G1765-FS	CBD-AOA-MW04-1020	255.0	1	C	10/22/20 BTM
G1766-FS	CBD-AOA-MW01-1020	260.0	1	C	10/22/20 AW
G1767-FS	CBD-AOA-MW01P-1020	265.0	1	C	10/22/20 AW
G1768-FS	CBD-AOA-MW03-1020	265.0	1	C	10/22/20 AW
G1769-FS	CBD-AOA-MW08-1020	260.0	1	C	10/22/20 AW
G1770MS-FS	Matrix Spike	275.0	1	C	10/22/20 BTM
G1771MSD-FS	Matrix Spike Duplicate	265.0	1	C	10/22/20 BTM
G1772-FS	CBD-AOA-MW02-1020	275.0	1	C	10/22/20 BTM
G1773-FS	CBD-AOA-MW18-1020	255.0	1	C	10/22/20 BTM
G1774-FS	CBD-AOA-EB01-101920-GW	255.0	1	C	10/22/20 BTM
G1775-FS	CBD-SO3-MW01-1020	275.0	1	C	10/22/20 BTM

Comments:

Samples Assigned By:

Matt Schumitz

Date : October 20, 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

20-1321

CTO-4532: PFAS in Water

AQ, GW

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
DA945PB-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
DA946LCS-FS	LD43	LCS/MS	1	100	10/22/20 AW	KH	NA
DA946LCS-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
G1765-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
G1766-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
G1767-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
G1768-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
G1769-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
G1770MS-FS	LD43	LCS/MS	1	125	10/22/20 AW	KH	NA
G1770MS-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
G1771MSD-FS	LD43	LCS/MS	1	125	10/22/20 AW	KH	NA
G1771MSD-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
G1772-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
G1773-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
G1774-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA
G1775-FS	LD44	SIS	5	125	10/22/20 AW	KH	NA

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

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Conc. ID	Turbo °C	Turbo PSI	KD °C	Comment
DA945PB-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
DA946LCS-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
G1765-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
G1766-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
G1767-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
G1768-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
G1769-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
G1770MS-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
G1771MSD-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
G1772-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
G1773-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
G1774-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA
G1775-FS	10/22/20 AW	NA	NA	NEVAP_3	NA	NA	NA	NA

Solvents/Reagent Preparations:

Name	ID	Expires	Lot No	Procedure	Comments
pH Indicator Strips 0-14	200923-01	09/23/25	10D0401	NA	
0.5% NH ₃ in Methanol (w/v)	RP-201022-1	10/22/20	A0409799	Per 100 mL, 4.25 mL ammonia solution brought to 100 mL with methanol	
0.5% NH ₃ in Methanol (w/v)	RP-201022-1	10/22/20	202167	Per 100 mL, 4.25 mL ammonia solution brought to 100 mL with methanol	
Pre-packed SPE Column	RP-201022-4	10/22/20	S308-0116/S20-004415	Pre-packed SPE Column	

Solvents/Reagents:

Name	Lot No	Comments
Methanol HPLC (201009-01)	202167	



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

20-1321

CTO-4532: PFAS in Water

AQ, GW

Extract Id	Date	Init.	Comments
DA945PB-FS(0)	10/22/20	AW	NA
DA946LCS-FS(0)	10/22/20	AW	NA
G1765-FS(0)	10/22/20	AW	NA
G1766-FS(0)	10/22/20	AW	NA
G1767-FS(0)	10/22/20	AW	NA
G1768-FS(0)	10/22/20	AW	NA
G1769-FS(0)	10/22/20	AW	NA
G1770MS-FS(0)	10/22/20	AW	NA
G1771MSD-FS(0)	10/22/20	AW	NA
G1772-FS(0)	10/22/20	AW	NA
G1773-FS(0)	10/22/20	AW	NA
G1774-FS(0)	10/22/20	AW	NA
G1775-FS(0)	10/22/20	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

20-1321

CTO-4532: PFAS in Water

AQ, GW

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

20-1321

CTO-4532: PFAS in Water

AQ, GW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
DA945PB-FS(0)	875	125	LE40	125	2	1000	1.000	11/11/20 KB	BTM
DA946LCS-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1765-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1765-FS-D(3)	900	100	LE40	125	2	1000	5.000	11/10/20 KB	RPK
G1765-FS-D(5)	925	75	LE40	125	2	1000	12.500	11/10/20 KB	RPK
G1765-FS-D(7)	925	75	LE40	125	2	1000	31.250	11/10/20 KB	RPK
G1765-FS-D(9)	900	100	LE40	125	2	1000	156.250	11/10/20 KB	RPK
G1766-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1766-FS-D(3)	900	100	LE40	125	2	1000	5.000	11/10/20 KB	RPK
G1766-FS-D(5)	900	100	LE40	125	2	1000	25.000	11/10/20 KB	RPK
G1766-FS-D(7)	925	75	LE40	125	2	1000	62.500	11/10/20 KB	RPK
G1766-FS-D(9)	900	100	LE40	125	2	1000	312.500	11/10/20 KB	RPK
G1767-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1767-FS-D(3)	900	100	LE40	125	2	1000	5.000	11/10/20 KB	RPK
G1767-FS-D(5)	900	100	LE40	125	2	1000	25.000	11/10/20 KB	RPK
G1767-FS-D(7)	925	75	LE40	125	2	1000	62.500	11/10/20 KB	RPK
G1767-FS-D(9)	900	100	LE40	125	2	1000	312.500	11/10/20 KB	RPK
G1768-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1768-FS-D(3)	900	100	LE40	125	2	1000	5.000	11/10/20 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

20-1321**CTO-4532: PFAS in Water****AQ, GW****(N/A Fraction)**

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
G1768-FS-D(5)	885	115	LE40	125	2	1000	62.500	11/10/20 KB	RPK
G1768-FS-D(7)	925	75	LE40	125	2	1000	156.250	11/10/20 KB	RPK
G1768-FS-D(9)	925	75	LE40	125	2	1000	390.625	11/10/20 KB	RPK
G1768-FS-D(11)	925	75	LE40	125	2	1000	976.563	11/10/20 KB	RPK
G1768-FS-D(13)	925	75	LE40	125	1	1000	2441.406	11/11/20 KB	BTM
G1769-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1769-FS-D(3)	900	100	LE40	125	2	1000	5.000	11/10/20 KB	RPK
G1769-FS-D(5)	925	75	LE40	125	2	1000	12.500	11/10/20 KB	RPK
G1769-FS-D(7)	925	75	LE40	125	2	1000	31.250	11/10/20 KB	RPK
G1769-FS-D(9)	925	75	LE40	125	2	1000	78.125	11/10/20 KB	RPK
G1769-FS-D(11)	925	75	LE40	125	2	1000	195.313	11/10/20 KB	RPK
G1770MS-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1770MS-FS-D(3)	900	100	LE40	125	2	1000	5.000	11/10/20 KB	RPK
G1770MS-FS-D(5)	925	75	LE40	125	2	1000	12.500	11/10/20 KB	RPK
G1770MS-FS-D(7)	925	75	LE40	125	2	1000	31.250	11/10/20 KB	RPK
G1770MS-FS-D(9)	925	75	LE40	125	2	1000	78.125	11/10/20 KB	RPK
G1770MS-FS-D(11)	925	75	LE40	125	2	1000	195.313	11/10/20 KB	RPK
G1771MSD-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1771MSD-FS-D(3)	900	100	LE40	125	2	1000	5.000	11/10/20 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

20-1321

CTO-4532: PFAS in Water

AQ, GW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
G1771MSD-FS-D(5)	925	75	LE40	125	2	1000	12.500	11/10/20 KB	RPK
G1771MSD-FS-D(7)	925	75	LE40	125	2	1000	31.250	11/10/20 KB	RPK
G1771MSD-FS-D(9)	925	75	LE40	125	2	1000	78.125	11/10/20 KB	RPK
G1771MSD-FS-D(11)	925	75	LE40	125	2	1000	195.313	11/10/20 KB	RPK
G1772-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1772-FS-D(3)	885	115	LE40	125	2	1000	12.500	11/10/20 KB	RPK
G1772-FS-D(5)	925	75	LE40	125	2	1000	31.250	11/10/20 KB	RPK
G1772-FS-D(7)	925	75	LE40	125	2	1000	78.125	11/10/20 KB	RPK
G1772-FS-D(9)	925	75	LE40	125	2	1000	195.313	11/10/20 KB	RPK
G1772-FS-D(11)	925	75	LE40	125	2	1000	488.281	11/10/20 KB	RPK
G1772-FS-D(13)	900	100	LE40	125	2	1000	2441.406	11/10/20 KB	RPK
G1773-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1773-FS-D(3)	900	100	LE40	125	2	1000	5.000	11/10/20 KB	RPK
G1773-FS-D(5)	925	75	LE40	125	2	1000	12.500	11/10/20 KB	RPK
G1773-FS-D(7)	925	75	LE40	125	2	1000	31.250	11/10/20 KB	RPK
G1773-FS-D(9)	900	100	LE40	125	1	1000	156.250	11/11/20 KB	BTM
G1774-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1775-FS(0)	875	125	LE40	125	2	1000	1.000	11/10/20 KB	RPK
G1775-FS-D(3)	900	100	LE40	125	2	1000	5.000	11/10/20 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

20-1321**CTO-4532: PFAS in Water****AQ, GW****(N/A Fraction)**

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
G1775-FS-D(5)	925	75	LE40	125	2	1000	12.500	11/10/20 KB	RPK
G1775-FS-D(7)	925	75	LE40	125	1	1000	31.250	11/11/20 KB	BTM

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
LE39	Pipette	B814657482
LE40	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

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Extract Id	DF	Std. ID	Type	Vial No.	Vol. Added (uL)	Conc (ug/mL)	Added (ng)	Date Spiked/ Spiked By	Witn'd By
G1765-FS-D(3)	5	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1765-FS-D(5)	12.5	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1765-FS-D(7)	31.25	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1765-FS-D(9)	156.25	LE39	SIS	3	100	0	0	11/10/20 KB	BTM
G1766-FS-D(3)	5	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1766-FS-D(5)	25	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1766-FS-D(7)	62.5	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1766-FS-D(9)	312.5	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1767-FS-D(3)	5	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1767-FS-D(5)	25	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1767-FS-D(7)	62.5	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1767-FS-D(9)	312.5	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1768-FS-D(3)	5	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1768-FS-D(5)	62.5	LE39	SIS	3	115	0	0	11/10/20 KB	RPK
G1768-FS-D(7)	156.25	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1768-FS-D(9)	390.625	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1768-FS-D(11)	976.563	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1768-FS-D(13)	2441.406	LE39	SIS	3	75	0	0	11/11/20 KB	BTM
G1769-FS-D(3)	5	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1769-FS-D(5)	12.5	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1769-FS-D(7)	31.25	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1769-FS-D(9)	78.125	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1769-FS-D(11)	195.313	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1770MS-FS-D(3)	5	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1770MS-FS-D(5)	12.5	LE39	SIS	3	75	0	0	11/10/20 KB	RPK



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

20-1321

CTO-4532: PFAS in Water

AQ, GW

Extract Id	DF	Std. ID	Type	Vial No.	Vol. Added (uL)	Conc (ug/mL)	Added (ng)	Date Spiked/ Spiked By	Witn'd By
G1770MS-FS-D(7)	31.25	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1770MS-FS-D(9)	78.125	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1770MS-FS-D(11)	195.313	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1771MSD-FS-D(3)	5	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1771MSD-FS-D(5)	12.5	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1771MSD-FS-D(7)	31.25	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1771MSD-FS-D(9)	78.125	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1771MSD-FS-D(11)	195.313	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1772-FS-D(3)	12.5	LE39	SIS	3	115	0	0	11/10/20 KB	RPK
G1772-FS-D(5)	31.25	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1772-FS-D(7)	78.125	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1772-FS-D(9)	195.313	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1772-FS-D(11)	488.281	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1772-FS-D(13)	2441.406	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1773-FS-D(3)	5	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1773-FS-D(5)	12.5	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1773-FS-D(7)	31.25	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1773-FS-D(9)	156.25	LE39	SIS	2	100	0	0	11/11/20 KB	BTM
G1775-FS-D(3)	5	LE39	SIS	3	100	0	0	11/10/20 KB	RPK
G1775-FS-D(5)	12.5	LE39	SIS	3	75	0	0	11/10/20 KB	RPK
G1775-FS-D(7)	31.25	LE39	SIS	3	75	0	0	11/11/20 KB	BTM



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

20-1321

CTO-4532: PFAS in Water

AQ, GW

Extract Id	DF	Std. ID	Type	Vial No.	Vol. Added (uL)	Conc (ug/mL)	Added (ng)	Date Spiked/ Spiked By	Witn'd By

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
LE39	Pipette	B814657482
LE40	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

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
DA945PB-FS	0	--	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
DA946LCS-FS	0	--	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
G1765-FS	0	C	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
G1765-FS	2	--	11/10/2020 9:56:00 AM	G1765-FS	0	1000	800	1.250	1.250	11/10/20 KB
G1765-FS-D	3	C	11/10/2020 9:56:00 AM	G1765-FS	0	1000	200	5.000	5.000	11/10/20 KB
G1765-FS-D	4	--	11/10/2020 10:01:00 AM	G1765-FS-D	3	1000	600	1.667	8.333	11/10/20 KB
G1765-FS-D	5	C	11/10/2020 10:01:00 AM	G1765-FS-D	3	1000	400	2.500	12.500	11/10/20 KB
G1765-FS-D	6	--	11/10/2020 10:08:00 AM	G1765-FS-D	5	1000	600	1.667	20.833	11/10/20 KB
G1765-FS-D	7	C	11/10/2020 10:08:00 AM	G1765-FS-D	5	1000	400	2.500	31.250	11/10/20 KB
G1765-FS-D	8	--	11/10/2020 10:13:00 AM	G1765-FS-D	7	1000	800	1.250	39.063	11/10/20 KB
G1765-FS-D	9	--	11/10/2020 10:13:00 AM	G1765-FS-D	7	1000	200	5.000	156.250	11/10/20 KB
G1766-FS	0	C	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
G1766-FS	2	--	11/10/2020 9:56:00 AM	G1766-FS	0	1000	800	1.250	1.250	11/10/20 KB
G1766-FS-D	3	C	11/10/2020 9:56:00 AM	G1766-FS	0	1000	200	5.000	5.000	11/10/20 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

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1766-FS-D	4	--	11/10/2020 10:07:00 AM	G1766-FS-D	3	1000	800	1.250	6.250	11/10/20 KB
G1766-FS-D	5	C	11/10/2020 10:07:00 AM	G1766-FS-D	3	1000	200	5.000	25.000	11/10/20 KB
G1766-FS-D	6	--	11/10/2020 10:08:00 AM	G1766-FS-D	5	1000	600	1.667	41.667	11/10/20 KB
G1766-FS-D	7	C	11/10/2020 10:08:00 AM	G1766-FS-D	5	1000	400	2.500	62.500	11/10/20 KB
G1766-FS-D	8	--	11/10/2020 10:13:00 AM	G1766-FS-D	7	1000	800	1.250	78.125	11/10/20 KB
G1766-FS-D	9	--	11/10/2020 10:13:00 AM	G1766-FS-D	7	1000	200	5.000	312.500	11/10/20 KB
G1767-FS	0	C	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
G1767-FS	2	--	11/10/2020 9:56:00 AM	G1767-FS	0	1000	800	1.250	1.250	11/10/20 KB
G1767-FS-D	3	C	11/10/2020 9:56:00 AM	G1767-FS	0	1000	200	5.000	5.000	11/10/20 KB
G1767-FS-D	4	--	11/10/2020 10:07:00 AM	G1767-FS-D	3	1000	800	1.250	6.250	11/10/20 KB
G1767-FS-D	5	C	11/10/2020 10:07:00 AM	G1767-FS-D	3	1000	200	5.000	25.000	11/10/20 KB
G1767-FS-D	6	--	11/10/2020 10:08:00 AM	G1767-FS-D	5	1000	600	1.667	41.667	11/10/20 KB
G1767-FS-D	7	C	11/10/2020 10:08:00 AM	G1767-FS-D	5	1000	400	2.500	62.500	11/10/20 KB
G1767-FS-D	8	--	11/10/2020 10:13:00 AM	G1767-FS-D	7	1000	800	1.250	78.125	11/10/20 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

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1767-FS-D	9	--	11/10/2020 10:13:00 AM	G1767-FS-D	7	1000	200	5.000	312.500	11/10/20 KB
G1768-FS	0	C	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
G1768-FS	2	--	11/10/2020 9:56:00 AM	G1768-FS	0	1000	800	1.250	1.250	11/10/20 KB
G1768-FS-D	3	C	11/10/2020 9:56:00 AM	G1768-FS	0	1000	200	5.000	5.000	11/10/20 KB
G1768-FS-D	4	--	11/10/2020 10:27:00 AM	G1768-FS-D	3	1000	920	1.087	5.435	11/10/20 KB
G1768-FS-D	5	C	11/10/2020 10:27:00 AM	G1768-FS-D	3	1000	80	12.500	62.500	11/10/20 KB
G1768-FS-D	6	--	11/10/2020 10:29:00 AM	G1768-FS-D	5	1000	600	1.667	104.167	11/10/20 KB
G1768-FS-D	7	C	11/10/2020 10:29:00 AM	G1768-FS-D	5	1000	400	2.500	156.250	11/10/20 KB
G1768-FS-D	8	--	11/10/2020 10:30:00 AM	G1768-FS-D	7	1000	600	1.667	260.417	11/10/20 KB
G1768-FS-D	9	C	11/10/2020 10:30:00 AM	G1768-FS-D	7	1000	400	2.500	390.625	11/10/20 KB
G1768-FS-D	10	--	11/10/2020 10:31:00 AM	G1768-FS-D	9	1000	600	1.667	651.042	11/10/20 KB
G1768-FS-D	11	C	11/10/2020 10:31:00 AM	G1768-FS-D	9	1000	400	2.500	976.563	11/10/20 KB
G1768-FS-D	12	--	11/11/2020 1:48:00 PM	G1768-FS-D	11	1000	600	1.667	1627.604	11/11/20 KB
G1768-FS-D	13	--	11/11/2020 1:48:00 PM	G1768-FS-D	11	1000	400	2.500	2441.406	11/11/20 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

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1769-FS	0	C	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
G1769-FS	2	--	11/10/2020 9:56:00 AM	G1769-FS	0	1000	800	1.250	1.250	11/10/20 KB
G1769-FS-D	3	C	11/10/2020 9:56:00 AM	G1769-FS	0	1000	200	5.000	5.000	11/10/20 KB
G1769-FS-D	4	--	11/10/2020 10:01:00 AM	G1769-FS-D	3	1000	600	1.667	8.333	11/10/20 KB
G1769-FS-D	5	C	11/10/2020 10:01:00 AM	G1769-FS-D	3	1000	400	2.500	12.500	11/10/20 KB
G1769-FS-D	6	--	11/10/2020 10:08:00 AM	G1769-FS-D	5	1000	600	1.667	20.833	11/10/20 KB
G1769-FS-D	7	C	11/10/2020 10:08:00 AM	G1769-FS-D	5	1000	400	2.500	31.250	11/10/20 KB
G1769-FS-D	8	--	11/10/2020 10:15:00 AM	G1769-FS-D	7	1000	600	1.667	52.083	11/10/20 KB
G1769-FS-D	9	C	11/10/2020 10:15:00 AM	G1769-FS-D	7	1000	400	2.500	78.125	11/10/20 KB
G1769-FS-D	10	--	11/10/2020 10:23:00 AM	G1769-FS-D	9	1000	600	1.667	130.208	11/10/20 KB
G1769-FS-D	11	--	11/10/2020 10:23:00 AM	G1769-FS-D	9	1000	400	2.500	195.313	11/10/20 KB
G1770MS-FS	0	C	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
G1770MS-FS	2	--	11/10/2020 9:56:00 AM	G1770MS-FS	0	1000	800	1.250	1.250	11/10/20 KB
G1770MS-FS-D	3	C	11/10/2020 9:56:00 AM	G1770MS-FS	0	1000	200	5.000	5.000	11/10/20 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

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1770MS-FS-D	4	--	11/10/2020 10:01:00 AM	G1770MS-FS-D	3	1000	600	1.667	8.333	11/10/20 KB
G1770MS-FS-D	5	C	11/10/2020 10:01:00 AM	G1770MS-FS-D	3	1000	400	2.500	12.500	11/10/20 KB
G1770MS-FS-D	6	--	11/10/2020 10:08:00 AM	G1770MS-FS-D	5	1000	600	1.667	20.833	11/10/20 KB
G1770MS-FS-D	7	C	11/10/2020 10:08:00 AM	G1770MS-FS-D	5	1000	400	2.500	31.250	11/10/20 KB
G1770MS-FS-D	8	--	11/10/2020 10:15:00 AM	G1770MS-FS-D	7	1000	600	1.667	52.083	11/10/20 KB
G1770MS-FS-D	9	C	11/10/2020 10:15:00 AM	G1770MS-FS-D	7	1000	400	2.500	78.125	11/10/20 KB
G1770MS-FS-D	10	--	11/10/2020 10:23:00 AM	G1770MS-FS-D	9	1000	600	1.667	130.208	11/10/20 KB
G1770MS-FS-D	11	--	11/10/2020 10:23:00 AM	G1770MS-FS-D	9	1000	400	2.500	195.313	11/10/20 KB
G1771MSD-FS	0	C	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
G1771MSD-FS	2	--	11/10/2020 9:56:00 AM	G1771MSD-FS	0	1000	800	1.250	1.250	11/10/20 KB
G1771MSD-FS-D	3	C	11/10/2020 9:56:00 AM	G1771MSD-FS	0	1000	200	5.000	5.000	11/10/20 KB
G1771MSD-FS-D	4	--	11/10/2020 10:01:00 AM	G1771MSD-FS-D	3	1000	600	1.667	8.333	11/10/20 KB
G1771MSD-FS-D	5	C	11/10/2020 10:01:00 AM	G1771MSD-FS-D	3	1000	400	2.500	12.500	11/10/20 KB
G1771MSD-FS-D	6	--	11/10/2020 10:08:00 AM	G1771MSD-FS-D	5	1000	600	1.667	20.833	11/10/20 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

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1771MSD-FS-D	7	C	11/10/2020 10:08:00 AM	G1771MSD-FS-D	5	1000	400	2.500	31.250	11/10/20 KB
G1771MSD-FS-D	8	--	11/10/2020 10:15:00 AM	G1771MSD-FS-D	7	1000	600	1.667	52.083	11/10/20 KB
G1771MSD-FS-D	9	C	11/10/2020 10:15:00 AM	G1771MSD-FS-D	7	1000	400	2.500	78.125	11/10/20 KB
G1771MSD-FS-D	10	--	11/10/2020 10:23:00 AM	G1771MSD-FS-D	9	1000	600	1.667	130.208	11/10/20 KB
G1771MSD-FS-D	11	--	11/10/2020 10:23:00 AM	G1771MSD-FS-D	9	1000	400	2.500	195.313	11/10/20 KB
G1772-FS	0	C	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
G1772-FS	2	--	11/10/2020 10:00:00 AM	G1772-FS	0	1000	920	1.087	1.087	11/10/20 KB
G1772-FS-D	3	C	11/10/2020 10:00:00 AM	G1772-FS	0	1000	80	12.500	12.500	11/10/20 KB
G1772-FS-D	4	--	11/10/2020 10:01:00 AM	G1772-FS-D	3	1000	600	1.667	20.833	11/10/20 KB
G1772-FS-D	5	C	11/10/2020 10:01:00 AM	G1772-FS-D	3	1000	400	2.500	31.250	11/10/20 KB
G1772-FS-D	6	--	11/10/2020 10:08:00 AM	G1772-FS-D	5	1000	600	1.667	52.083	11/10/20 KB
G1772-FS-D	7	C	11/10/2020 10:08:00 AM	G1772-FS-D	5	1000	400	2.500	78.125	11/10/20 KB
G1772-FS-D	8	--	11/10/2020 10:15:00 AM	G1772-FS-D	7	1000	600	1.667	130.208	11/10/20 KB
G1772-FS-D	9	C	11/10/2020 10:15:00 AM	G1772-FS-D	7	1000	400	2.500	195.313	11/10/20 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

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1772-FS-D	10	--	11/10/2020 10:23:00 AM	G1772-FS-D	9	1000	600	1.667	325.521	11/10/20 KB
G1772-FS-D	11	C	11/10/2020 10:23:00 AM	G1772-FS-D	9	1000	400	2.500	488.281	11/10/20 KB
G1772-FS-D	12	--	11/10/2020 10:26:00 AM	G1772-FS-D	11	1000	800	1.250	610.352	11/10/20 KB
G1772-FS-D	13	--	11/10/2020 10:26:00 AM	G1772-FS-D	11	1000	200	5.000	2441.406	11/10/20 KB
G1773-FS	0	C	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
G1773-FS	2	--	11/10/2020 9:56:00 AM	G1773-FS	0	1000	800	1.250	1.250	11/10/20 KB
G1773-FS-D	3	C	11/10/2020 9:56:00 AM	G1773-FS	0	1000	200	5.000	5.000	11/10/20 KB
G1773-FS-D	4	--	11/10/2020 10:01:00 AM	G1773-FS-D	3	1000	600	1.667	8.333	11/10/20 KB
G1773-FS-D	5	C	11/10/2020 10:01:00 AM	G1773-FS-D	3	1000	400	2.500	12.500	11/10/20 KB
G1773-FS-D	6	--	11/10/2020 10:08:00 AM	G1773-FS-D	5	1000	600	1.667	20.833	11/10/20 KB
G1773-FS-D	7	C	11/10/2020 10:08:00 AM	G1773-FS-D	5	1000	400	2.500	31.250	11/10/20 KB
G1773-FS-D	8	--	11/11/2020 1:43:00 PM	G1773-FS-D	7	1000	800	1.250	39.063	11/11/20 KB
G1773-FS-D	9	--	11/11/2020 1:43:00 PM	G1773-FS-D	7	1000	200	5.000	156.250	11/11/20 KB
G1774-FS	0	--	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 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

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
G1775-FS	0	C	10/22/2020 10:27:00 AM	NA		NA	NA	1.000	1.000	10/22/20 AW
G1775-FS	2	--	11/10/2020 9:56:00 AM	G1775-FS	0	1000	800	1.250	1.250	11/10/20 KB
G1775-FS-D	3	C	11/10/2020 9:56:00 AM	G1775-FS	0	1000	200	5.000	5.000	11/10/20 KB
G1775-FS-D	4	--	11/10/2020 10:01:00 AM	G1775-FS-D	3	1000	600	1.667	8.333	11/10/20 KB
G1775-FS-D	5	C	11/10/2020 10:01:00 AM	G1775-FS-D	3	1000	400	2.500	12.500	11/10/20 KB
G1775-FS-D	6	--	11/11/2020 1:48:00 PM	G1775-FS-D	5	1000	600	1.667	20.833	11/11/20 KB
G1775-FS-D	7	--	11/11/2020 1:48:00 PM	G1775-FS-D	5	1000	400	2.500	31.250	11/11/20 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

20-1321

CTO-4532: PFAS in Water

AQ, GW

Purpose:	LC-MS/MS TRANSFER	Last Activity:	Prep->Inst
Relinquished On/By:	Nov 10 2020 5:27PM RPK	Received On/By:	Nov 10 2020 5:27PM 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	DA945PB-FS(0)	1000	1	Intact	NA
2	DA946LCS-FS(0)	1000	1	Intact	NA
3	G1765-FS(0)	1000	1	Intact	NA
4	G1765-FS-D(3)	1000	5	Intact	NA
5	G1765-FS-D(5)	1000	12.5	Intact	NA
6	G1765-FS-D(7)	1000	31.25	Intact	NA
7	G1765-FS-D(9)	1000	156.25	Intact	NA
8	G1766-FS(0)	1000	1	Intact	NA
9	G1766-FS-D(3)	1000	5	Intact	NA
10	G1766-FS-D(5)	1000	25	Intact	NA
11	G1766-FS-D(7)	1000	62.5	Intact	NA
12	G1766-FS-D(9)	1000	312.5	Intact	NA
13	G1767-FS(0)	1000	1	Intact	NA
14	G1767-FS-D(3)	1000	5	Intact	NA
15	G1767-FS-D(7)	1000	62.5	Intact	NA
16	G1767-FS-D(9)	1000	312.5	Intact	NA
17	G1768-FS(0)	1000	1	Intact	NA
18	G1768-FS-D(3)	1000	5	Intact	NA
19	G1768-FS-D(5)	1000	62.5	Intact	NA
20	G1768-FS-D(7)	1000	156.25	Intact	NA
21	G1768-FS-D(9)	1000	390.625	Intact	NA
22	G1768-FS-D(11)	1000	976.563	Intact	NA
23	G1769-FS(0)	1000	1	Intact	NA
24	G1769-FS-D(3)	1000	5	Intact	NA
25	G1769-FS-D(5)	1000	12.5	Intact	NA
26	G1769-FS-D(7)	1000	31.25	Intact	NA
27	G1769-FS-D(9)	1000	78.125	Intact	NA
28	G1769-FS-D(11)	1000	195.313	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

20-1321

CTO-4532: PFAS in Water

AQ, GW

29	G1770MS-FS(0)	1000	1	Intact	NA
30	G1770MS-FS-D(3)	1000	5	Intact	NA
31	G1770MS-FS-D(5)	1000	12.5	Intact	NA
32	G1770MS-FS-D(7)	1000	31.25	Intact	NA
33	G1770MS-FS-D(9)	1000	78.125	Intact	NA
34	G1770MS-FS-D(11)	1000	195.313	Intact	NA
35	G1771MSD-FS(0)	1000	1	Intact	NA
36	G1771MSD-FS-D(3)	1000	5	Intact	NA
37	G1771MSD-FS-D(5)	1000	12.5	Intact	NA
38	G1771MSD-FS-D(7)	1000	31.25	Intact	NA
39	G1771MSD-FS-D(9)	1000	78.125	Intact	NA
40	G1771MSD-FS-D(11)	1000	195.313	Intact	NA
41	G1772-FS(0)	1000	1	Intact	NA
42	G1772-FS-D(3)	1000	12.5	Intact	NA
43	G1772-FS-D(5)	1000	31.25	Intact	NA
44	G1772-FS-D(7)	1000	78.125	Intact	NA
45	G1772-FS-D(9)	1000	195.313	Intact	NA
46	G1772-FS-D(11)	1000	488.281	Intact	NA
47	G1772-FS-D(13)	1000	2441.406	Intact	NA
48	G1773-FS(0)	1000	1	Intact	NA
49	G1773-FS-D(3)	1000	5	Intact	NA
50	G1773-FS-D(5)	1000	12.5	Intact	NA
51	G1773-FS-D(7)	1000	31.25	Intact	NA
52	G1774-FS(0)	1000	1	Intact	NA
53	G1775-FS(0)	1000	1	Intact	NA
54	G1775-FS-D(3)	1000	5	Intact	NA
55	G1775-FS-D(5)	1000	12.5	Intact	NA

Total Extracts: 55



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

20-1321

CTO-4532: PFAS in Water

AQ, GW

Purpose:	LC-MS/MS TRANSFER	Last Activity:	Prep->Inst		
Relinquished On/By:	Nov 12 2020 10:12AM KB	Received On/By:	Nov 12 2020 10:12AM 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	G1768-FS-D(13)	1000	2441.406	Intact	NA
2	G1773-FS-D(9)	1000	156.25	Intact	NA
3	G1775-FS-D(7)	1000	31.25	Intact	NA
Total Extracts:	3				



It can be done

BATTELLE - NORWELL OPERATIONS SAMPLE SPECIFIC COMMENTS

Project Title(s)

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

Project No.(s)

100142218

20-1321**CTO-4532: PFAS in Water****AQ, GW**

Sample ID:	Comment:	Date/Initials:
DA945PB-FS	Extraction started at 10:27 AM, manifold 2, ended at 11:29 AM	10/22/20 AW
DA946LCS-FS	Extraction started at 10:27 AM, manifold 2, ended at 11:24 AM	10/22/20 AW
G1765-FS	Extraction started at 10:27 AM, manifold 5, ended at 11:31 AM	10/22/20 AW
G1765-FS	Sample contained particulates	10/22/20 AW
G1766-FS	Extraction started at 10:27 AM, manifold 2, ended at 11:50 AM	10/22/20 AW
G1766-FS	Sample contained particulates	10/22/20 AW
G1767-FS	Extraction started at 10:27 AM, manifold 2, ended at 11:48 AM	10/22/20 AW
G1767-FS	Sample contained particulates	10/22/20 AW
G1768-FS	Extraction started at 10:27 AM, manifold 2, ended at 11:48 AM	10/22/20 AW
G1768-FS	Sample contained particulates	10/22/20 AW
G1769-FS	Extraction started at 10:27 AM, manifold 2, ended at 11:57 AM	10/22/20 AW
G1769-FS	Sample contained particulates	10/22/20 AW
G1770MS-FS	Extraction started at 10:27 AM, manifold 5, ended at 12:03 PM	10/22/20 AW
G1770MS-FS	Sample contained particulates	10/22/20 AW
G1771MSD-FS	Extraction started at 10:27 AM, manifold 5, ended at 12:03 PM	10/22/20 AW
G1771MSD-FS	Sample contained particulates	10/22/20 AW
G1772-FS	Extraction started at 10:27 AM, manifold 5, ended at 12:34 PM	10/22/20 AW
G1772-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.	10/22/20 AW
G1773-FS	Extraction started at 10:27 AM, manifold 5, ended at 11:47 AM	10/22/20 AW
G1773-FS	Sample contained particulates	10/22/20 AW
G1774-FS	Extraction started at 10:27 AM, manifold 2, ended at 11:29 AM	10/22/20 AW
G1775-FS	Extraction started at 10:27 AM, manifold 5, ended at 12:41 PM	10/22/20 AW
G1775-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.	10/22/20 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

20-1321

CTO-4532: PFAS in Water

AQ, GW

Entered By:

On:

Task Leader Approval:

On:

SupervisorApproval:

On:

PM Approval:

On:

Analytical Calibrations



Sequence Report

Created with Analyst Reporter
Printed: 13/11/2020 4:01:03 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
2	LD74	L1	11/10/2020 8:07:44 PM	5-369.dam	AE_11112020_5-369.wiff
3	LD75	L2	11/10/2020 8:18:11 PM	5-369.dam	AE_11112020_5-369.wiff
4	LD76	L3	11/10/2020 8:28:38 PM	5-369.dam	AE_11112020_5-369.wiff
5	LD77	L4	11/10/2020 8:39:05 PM	5-369.dam	AE_11112020_5-369.wiff
6	LD78	L5	11/10/2020 8:49:32 PM	5-369.dam	AE_11112020_5-369.wiff
7	LD79	L6	11/10/2020 8:59:59 PM	5-369.dam	AE_11112020_5-369.wiff
8	LD80 IB	Instrument Blank	11/10/2020 9:10:26 PM	5-369.dam	AE_11112020_5-369.wiff
9	LD81 ICC	ICC	11/10/2020 9:20:54 PM	5-369.dam	AE_11112020_5-369.wiff
10	LE25 Branch	Branch Standard	11/10/2020 9:31:21 PM	5-369.dam	AE_11112020_5-369.wiff
11	MeOH		11/10/2020 9:41:49 PM	5-369.dam	AE_11112020_5-369.wiff
12	DB297PB-FS(0)		11/10/2020 9:52:18 PM	5-369.dam	AE_11112020_5-369.wiff
13	DB298LCS-FS(0)		11/10/2020 10:02:45 PM	5-369.dam	AE_11112020_5-369.wiff
14	G1696-FS(0)		11/10/2020 10:13:12 PM	5-369.dam	AE_11112020_5-369.wiff
15	G1697-FS(0)		11/10/2020 10:23:40 PM	5-369.dam	AE_11112020_5-369.wiff
16	MeOH		11/10/2020 10:34:07 PM	5-369.dam	AE_11112020_5-369.wiff
17	LE76 CCV	CCV	11/10/2020 10:44:35 PM	5-369.dam	AE_11112020_5-369.wiff
18	MeOH		11/10/2020 10:55:03 PM	5-369.dam	AE_11112020_5-369.wiff
19	DA945PB-FS(0)	Procedural Blank	11/10/2020 11:05:31 PM	5-369.dam	AE_11112020_5-369.wiff
20	DA946LCS-FS(0)	Laboratory Control Sample	11/10/2020 11:15:58 PM	5-369.dam	AE_11112020_5-369.wiff
21	G1765-FS(0)	CBD-AOA-MW04-1020	11/10/2020 11:26:27 PM	5-369.dam	AE_11112020_5-369.wiff
22	G1765-FS-D(3)	CBD-AOA-MW04-1020	11/10/2020 11:36:56 PM	5-369.dam	AE_11112020_5-369.wiff
23	G1765-FS-D(5)	CBD-AOA-MW04-1020	11/10/2020 11:47:24 PM	5-369.dam	AE_11112020_5-369.wiff
24	G1765-FS-D(7)	CBD-AOA-MW04-1020	11/10/2020 11:57:52 PM	5-369.dam	AE_11112020_5-369.wiff
25	G1765-FS-D(9)	CBD-AOA-MW04-1020	11/11/2020 12:08:20 AM	5-369.dam	AE_11112020_5-369.wiff
26	MeOH		11/11/2020 12:18:47 AM	5-369.dam	AE_11112020_5-369.wiff
27	LE77 CCV	CCV	11/11/2020 12:29:16 AM	5-369.dam	AE_11112020_5-369.wiff
28	G1766-FS(0)	CBD-AOA-MW01-1020	11/11/2020 12:39:43 AM	5-369.dam	AE_11112020_5-369.wiff
29	G1766-FS-D(3)	CBD-AOA-MW01-1020	11/11/2020 12:50:11 AM	5-369.dam	AE_11112020_5-369.wiff
30	G1766-FS-D(5)	CBD-AOA-MW01-1020	11/11/2020 1:00:39 AM	5-369.dam	AE_11112020_5-369.wiff
31	G1766-FS-D(7)	CBD-AOA-MW01-1020	11/11/2020 1:11:06 AM	5-369.dam	AE_11112020_5-369.wiff
32	G1766-FS-D(9)	CBD-AOA-MW01-1020	11/11/2020 1:21:34 AM	5-369.dam	AE_11112020_5-369.wiff
33	G1767-FS(0)	CBD-AOA-MW01P-1020	11/11/2020 1:32:03 AM	5-369.dam	AE_11112020_5-369.wiff
34	G1767-FS-D(3)	CBD-AOA-MW01P-1020	11/11/2020 1:42:31 AM	5-369.dam	AE_11112020_5-369.wiff
35	G1767-FS-D(7)	CBD-AOA-MW01P-1020	11/11/2020 1:52:58 AM	5-369.dam	AE_11112020_5-369.wiff
36	G1767-FS-D(9)	CBD-AOA-MW01P-1020	11/11/2020 2:03:27 AM	5-369.dam	AE_11112020_5-369.wiff
37	MeOH		11/11/2020 2:13:55 AM	5-369.dam	AE_11112020_5-369.wiff
38	LE76 CCV	CCV	11/11/2020 2:24:22 AM	5-369.dam	AE_11112020_5-369.wiff
39	G1768-FS(0)	CBD-AOA-MW03-1020	11/11/2020 2:34:50 AM	5-369.dam	AE_11112020_5-369.wiff
40	G1768-FS-D(3)	CBD-AOA-MW03-1020	11/11/2020 2:45:18 AM	5-369.dam	AE_11112020_5-369.wiff

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Sequence Report

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Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
41	G1768-FS-D(5)	CBD-AOA-MW03-1020	11/11/2020 2:55:45 AM	5-369.dam	AE_11112020_5-369.wiff
42	G1768-FS-D(7)	CBD-AOA-MW03-1020	11/11/2020 3:06:13 AM	5-369.dam	AE_11112020_5-369.wiff
43	G1768-FS-D(9)	CBD-AOA-MW03-1020	11/11/2020 3:16:41 AM	5-369.dam	AE_11112020_5-369.wiff
44	G1768-FS-D(11)	CBD-AOA-MW03-1020	11/11/2020 3:27:10 AM	5-369.dam	AE_11112020_5-369.wiff
45	G1773-FS(0)	CBD-AOA-MW18-1020	11/11/2020 3:37:38 AM	5-369.dam	AE_11112020_5-369.wiff
46	G1773-FS-D(3)	CBD-AOA-MW18-1020	11/11/2020 3:48:07 AM	5-369.dam	AE_11112020_5-369.wiff
47	G1773-FS-D(5)	CBD-AOA-MW18-1020	11/11/2020 3:58:34 AM	5-369.dam	AE_11112020_5-369.wiff
48	MeOH		11/11/2020 4:09:04 AM	5-369.dam	AE_11112020_5-369.wiff
49	LE77 CCV	CCV	11/11/2020 4:19:34 AM	5-369.dam	AE_11112020_5-369.wiff
50	G1774-FS(0)	CBD-AOA-EB01-101920-GW	11/11/2020 4:30:02 AM	5-369.dam	AE_11112020_5-369.wiff
51	G1775-FS(0)	CBD-SO3-MW01-1020	11/11/2020 4:40:29 AM	5-369.dam	AE_11112020_5-369.wiff
52	G1775-FS-D(3)	CBD-SO3-MW01-1020	11/11/2020 4:50:57 AM	5-369.dam	AE_11112020_5-369.wiff
53	G1775-FS-D(5)	CBD-SO3-MW01-1020	11/11/2020 5:01:25 AM	5-369.dam	AE_11112020_5-369.wiff
54	MeOH		11/11/2020 5:11:52 AM	5-369.dam	AE_11112020_5-369.wiff
1	LE76 CCV	CCV	11/11/2020 5:22:20 AM	5-369.dam	AE_11112020_5-369.wiff
2	G1769-FS(0)	CBD-AOA-MW08-1020	11/11/2020 5:32:48 AM	5-369.dam	AE_11112020_5-369.wiff
3	G1769-FS-D(3)	CBD-AOA-MW08-1020	11/11/2020 5:43:16 AM	5-369.dam	AE_11112020_5-369.wiff
4	G1769-FS-D(5)	CBD-AOA-MW08-1020	11/11/2020 5:53:46 AM	5-369.dam	AE_11112020_5-369.wiff
5	G1769-FS-D(7)	CBD-AOA-MW08-1020	11/11/2020 6:04:16 AM	5-369.dam	AE_11112020_5-369.wiff
6	G1769-FS-D(9)	CBD-AOA-MW08-1020	11/11/2020 6:14:44 AM	5-369.dam	AE_11112020_5-369.wiff
7	G1769-FS-D(11)	CBD-AOA-MW08-1020	11/11/2020 6:25:14 AM	5-369.dam	AE_11112020_5-369.wiff
8	MeOH		11/11/2020 6:35:43 AM	5-369.dam	AE_11112020_5-369.wiff
9	LE77 CCV	CCV	11/11/2020 6:46:11 AM	5-369.dam	AE_11112020_5-369.wiff
10	G1770MS-FS(0)	CBD-AOA-MW08-1020-MS	11/11/2020 6:56:39 AM	5-369.dam	AE_11112020_5-369.wiff
11	G1770MS-FS-D(3)	CBD-AOA-MW08-1020-MS	11/11/2020 7:07:07 AM	5-369.dam	AE_11112020_5-369.wiff
12	G1770MS-FS-D(5)	CBD-AOA-MW08-1020-MS	11/11/2020 7:17:36 AM	5-369.dam	AE_11112020_5-369.wiff
13	G1770MS-FS-D(7)	CBD-AOA-MW08-1020-MS	11/11/2020 7:28:05 AM	5-369.dam	AE_11112020_5-369.wiff
14	G1770MS-FS-D(9)	CBD-AOA-MW08-1020-MS	11/11/2020 7:38:34 AM	5-369.dam	AE_11112020_5-369.wiff
15	G1770MS-FS-D(11)	CBD-AOA-MW08-1020-MS	11/11/2020 7:49:03 AM	5-369.dam	AE_11112020_5-369.wiff
16	MeOH		11/11/2020 7:59:32 AM	5-369.dam	AE_11112020_5-369.wiff
17	LE76 CCV	CCV	11/11/2020 8:10:43 AM	5-369.dam	AE_11112020_5-369.wiff
18	G1771MSD-FS(0)	CBD-AOA-MW08-1020-SD	11/11/2020 8:21:11 AM	5-369.dam	AE_11112020_5-369.wiff
19	G1771MSD-FS-D(3)	CBD-AOA-MW08-1020-SD	11/11/2020 8:31:40 AM	5-369.dam	AE_11112020_5-369.wiff
20	G1771MSD-FS-D(5)	CBD-AOA-MW08-1020-SD	11/11/2020 8:42:11 AM	5-369.dam	AE_11112020_5-369.wiff
21	G1771MSD-FS-D(7)	CBD-AOA-MW08-1020-SD	11/11/2020 8:52:40 AM	5-369.dam	AE_11112020_5-369.wiff
22	G1771MSD-FS-D(9)	CBD-AOA-MW08-1020-SD	11/11/2020 9:03:11 AM	5-369.dam	AE_11112020_5-369.wiff
23	G1771MSD-FS-D(11)	CBD-AOA-MW08-1020-SD	11/11/2020 9:13:41 AM	5-369.dam	AE_11112020_5-369.wiff
24	MeOH		11/11/2020 9:24:11 AM	5-369.dam	AE_11112020_5-369.wiff

1. Dilution made and run but not needed. DMS 11/13/2020



Sequence Report

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Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
25	LE77 CCV	CCV	11/11/2020 9:34:40 AM	5-369.dam	AE_11112020_5-369.wiff
26	G1772-FS(0)	CBD-AOA-MW02-1020	11/11/2020 9:45:09 AM	5-369.dam	AE_11112020_5-369.wiff
27	G1772-FS-D(3)	CBD-AOA-MW02-1020	11/11/2020 9:55:37 AM	5-369.dam	AE_11112020_5-369.wiff
28	G1772-FS-D(5)	CBD-AOA-MW02-1020	11/11/2020 10:06:06 AM	5-369.dam	AE_11112020_5-369.wiff
29	G1772-FS-D(7)	CBD-AOA-MW02-1020	11/11/2020 10:16:35 AM	5-369.dam	AE_11112020_5-369.wiff
30	G1772-FS-D(9)	CBD-AOA-MW02-1020	11/11/2020 10:27:04 AM	5-369.dam	AE_11112020_5-369.wiff
31	G1772-FS-D(11)	CBD-AOA-MW02-1020	11/11/2020 10:37:33 AM	5-369.dam	AE_11112020_5-369.wiff
32	G1772-FS-D(13)	CBD-AOA-MW02-1020	11/11/2020 10:48:02 AM	5-369.dam	AE_11112020_5-369.wiff
33	MeOH		11/11/2020 10:58:32 AM	5-369.dam	AE_11112020_5-369.wiff
34	LE76 CCV	CCV	11/11/2020 11:09:02 AM	5-369.dam	AE_11112020_5-369.wiff

1. Dilution made and run but not needed. DMS 11/13/2020



Sequence Report

Created with Analyst Reporter
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Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
2	LE52	L1	11/12/2020 8:13:11 PM	5-369.dam	AE_11122020_5-369.wiff
3	LE53	L2	11/12/2020 8:23:41 PM	5-369.dam	AE_11122020_5-369.wiff
4	LE54	L3	11/12/2020 8:34:12 PM	5-369.dam	AE_11122020_5-369.wiff
5	LE55	L4	11/12/2020 8:44:42 PM	5-369.dam	AE_11122020_5-369.wiff
6	LE56	L5	11/12/2020 8:55:11 PM	5-369.dam	AE_11122020_5-369.wiff
7	LE57	L6	11/12/2020 9:05:40 PM	5-369.dam	AE_11122020_5-369.wiff
8	LE58 IB	IB	11/12/2020 9:16:09 PM	5-369.dam	AE_11122020_5-369.wiff
9	LE59 ICC	ICC	11/12/2020 9:26:38 PM	5-369.dam	AE_11122020_5-369.wiff
10	LE25 Branch	Branch Standard	11/12/2020 9:37:07 PM	5-369.dam	AE_11122020_5-369.wiff
11	MeOH		11/12/2020 9:47:35 PM	5-369.dam	AE_11122020_5-369.wiff
12	DB344PB-FS(0)		11/12/2020 9:58:05 PM	5-369.dam	AE_11122020_5-369.wiff
13	DB345LCS-FS(0)		11/12/2020 10:08:34 PM	5-369.dam	AE_11122020_5-369.wiff
14	G2932-FS(0)		11/12/2020 10:19:03 PM	5-369.dam	AE_11122020_5-369.wiff
15	G2932MS-FS(0)		11/12/2020 10:29:33 PM	5-369.dam	AE_11122020_5-369.wiff
16	G2932MSD-FS(0)		11/12/2020 10:40:03 PM	5-369.dam	AE_11122020_5-369.wiff
17	G2933-FS(0)		11/12/2020 10:50:33 PM	5-369.dam	AE_11122020_5-369.wiff
18	MeOH		11/12/2020 11:01:03 PM	5-369.dam	AE_11122020_5-369.wiff
19	LE55 CCV	CCV	11/12/2020 11:11:33 PM	5-369.dam	AE_11122020_5-369.wiff
20	MeOH		11/12/2020 11:22:03 PM	5-369.dam	AE_11122020_5-369.wiff
21	G1768-FS-D(13)	CBD-AOA-MW03-1020	11/12/2020 11:32:32 PM	5-369.dam	AE_11122020_5-369.wiff
22	G1773-FS-D(9)	CBD-AOA-MW18-1020	11/12/2020 11:43:01 PM	5-369.dam	AE_11122020_5-369.wiff
23	G1775-FS-D(7)	CBD-SO3-MW01-1020	11/12/2020 11:53:30 PM	5-369.dam	AE_11122020_5-369.wiff
24	MeOH		11/13/2020 12:03:59 AM	5-369.dam	AE_11122020_5-369.wiff
25	LE54 CCV	CCV	11/13/2020 12:14:28 AM	5-369.dam	AE_11122020_5-369.wiff
26	MeOH		11/13/2020 12:24:56 AM	5-369.dam	AE_11122020_5-369.wiff
27	G1766-FS(0)	CBD-AOA-MW01-1020	11/13/2020 12:35:25 AM	5-369.dam	AE_11122020_5-369.wiff
28	G1767-FS(0)	CBD-AOA-MW01P-1020	11/13/2020 12:45:54 AM	5-369.dam	AE_11122020_5-369.wiff
29	G1768-FS(0)	CBD-AOA-MW03-1020	11/13/2020 12:56:24 AM	5-369.dam	AE_11122020_5-369.wiff
30	G1770MS-FS(0)	CBD-AOA-MW08-1020-MS	11/13/2020 1:06:54 AM	5-369.dam	AE_11122020_5-369.wiff
31	G1771MSD-FS(0)	CBD-AOA-MW08-1020-SD	11/13/2020 1:17:24 AM	5-369.dam	AE_11122020_5-369.wiff
32	G1773-FS(0)	CBD-AOA-MW18-1020	11/13/2020 1:27:54 AM	5-369.dam	AE_11122020_5-369.wiff
33	MeOH		11/13/2020 1:38:24 AM	5-369.dam	AE_11122020_5-369.wiff
34	LE54 CCV	CCV	11/13/2020 1:48:54 AM	5-369.dam	AE_11122020_5-369.wiff

1. Samples from another batch, not reported with this one. DMS 11/13/2020
2. Sample run but was not needed. DMS 11/13/2020
3. Samples run for confirmation only. DMS 11/13/2020



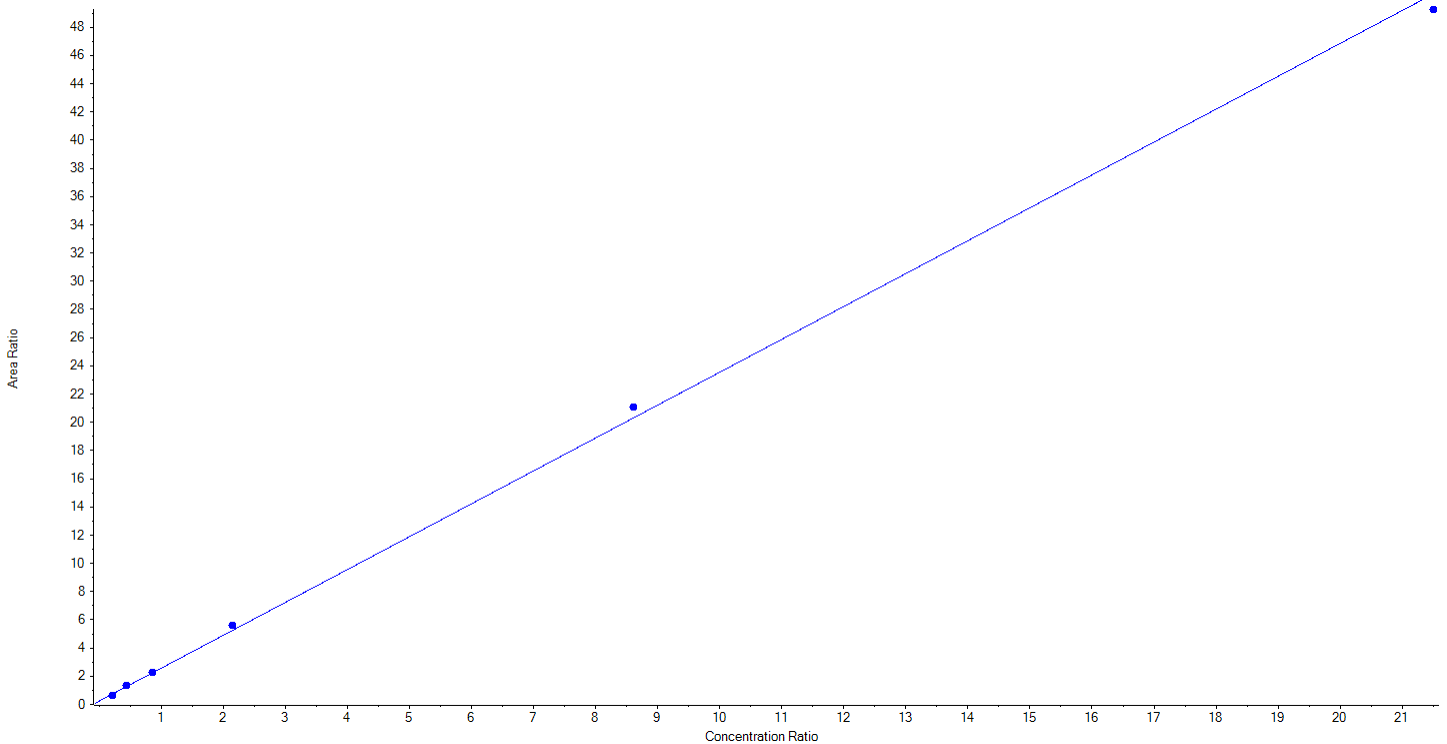
Calibration Summary Report

Created with Analyst Reporter
Printed: 13/11/2020 3:51:26 PM

Analyte Name	PFBS_1	Data File	AE_11112020_5-369.wiff
MRM Transition	298.9 / 80.0	Result Table	20-1321
Internal Standard	13C3-PFBS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 2.33010x + 0.25059$ ($r = 0.99932$) (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	208.83	83.5
3	LD75	L2	True	500.00	534.34	106.9
4	LD76	L3	True	1000.00	1014.47	101.5
5	LD77	L4	True	2500.00	2664.11	106.6
6	LD78	L5	True	10000.00	10379.20	103.8
7	LD79	L6	True	25000.00	24449.05	97.8





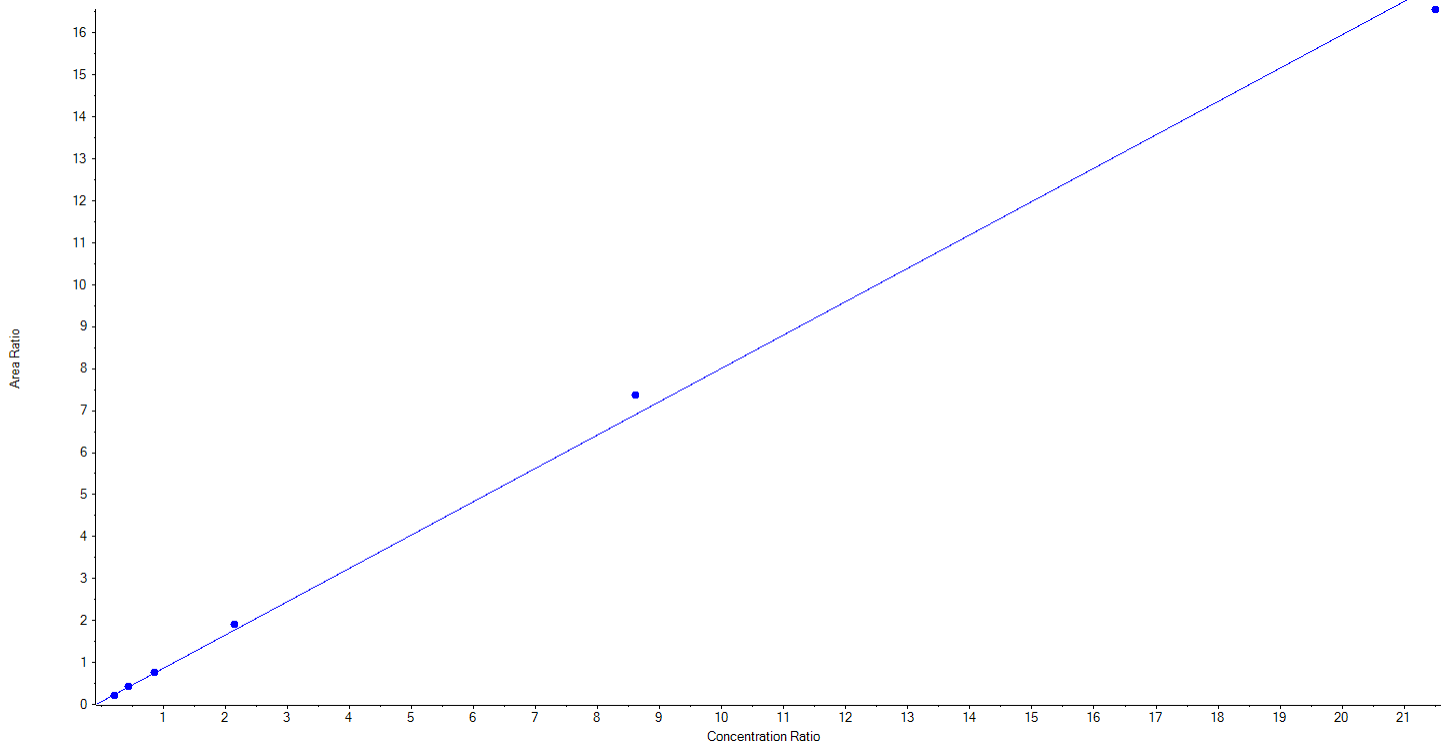
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Analyte Name	PFBS_2	Data File	AE_11112020_5-369.wiff
MRM Transition	298.9 / 99.0	Result Table	20-1321
Internal Standard	13C3-PFBS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.79446x + 0.06816$ ($r = 0.99854$) (weighting: $1/x$) $r^2: 0.9971$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	205.67	82.3
3	LD75	L2	True	500.00	524.87	105.0
4	LD76	L3	True	1000.00	1016.76	101.7
5	LD77	L4	True	2500.00	2694.74	107.8
6	LD78	L5	True	10000.00	10676.81	106.8
7	LD79	L6	True	25000.00	24131.15	96.5





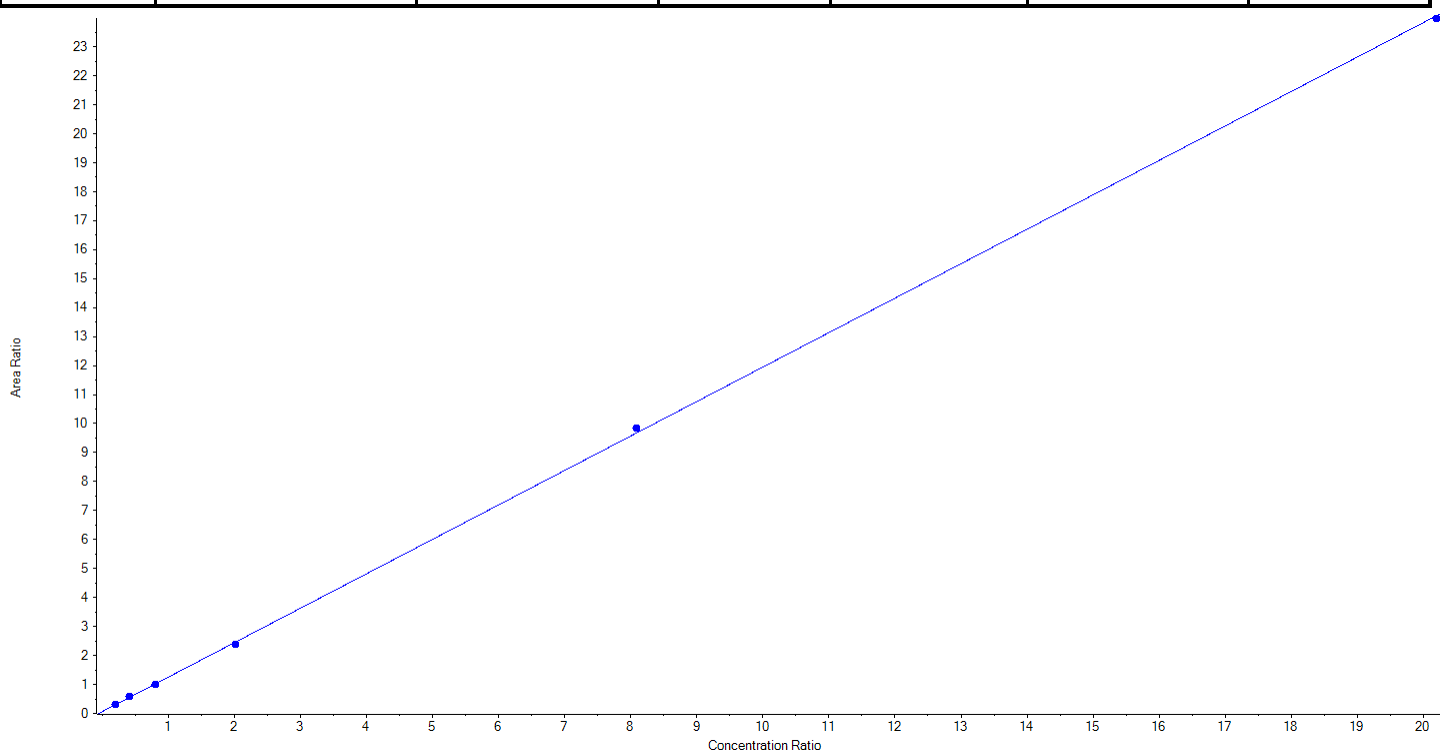
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Created with Analyst Reporter
Printed: 13/11/2020 3:51:26 PM

Analyte Name	PFHxA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	313.0 / 269.0	Result Table	20-1321
Internal Standard	13C5-PFHxA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.18808x + 0.06907$ ($r = 0.99986$) (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	252.50	248.20	98.3
3	LD75	L2	True	505.00	538.06	106.6
4	LD76	L3	True	1010.00	981.51	97.2
5	LD77	L4	True	2525.00	2436.83	96.5
6	LD78	L5	True	10100.00	10288.74	101.9
7	LD79	L6	True	25250.00	25149.16	99.6





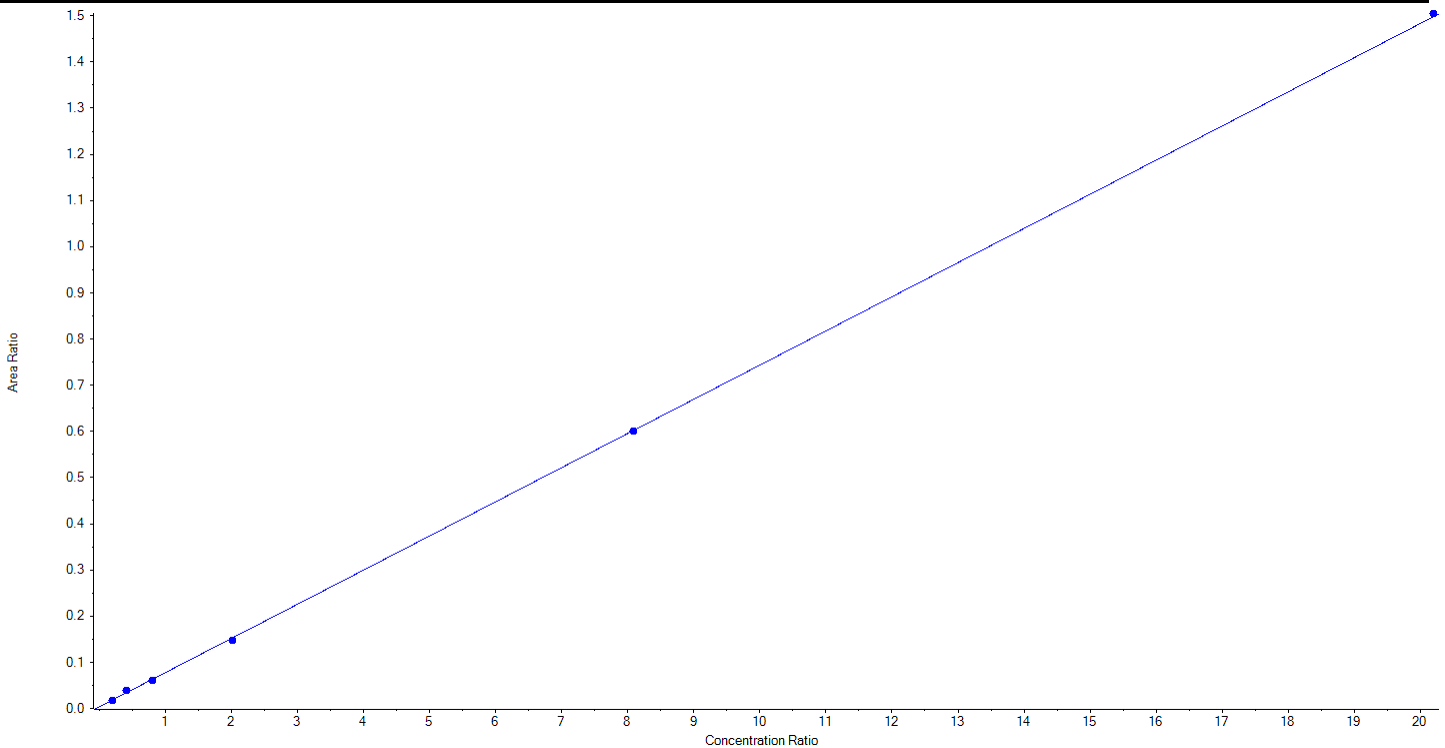
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Printed: 13/11/2020 3:51:26 PM

Analyte Name	PFHxA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	313.0 / 119.0	Result Table	20-1321
Internal Standard	13C5-PFHxA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.07396x + 0.00393$ ($r = 0.99963$) (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	252.50	229.31	90.8
3	LD75	L2	True	505.00	594.83	117.8
4	LD76	L3	True	1010.00	967.28	95.8
5	LD77	L4	True	2525.00	2408.79	95.4
6	LD78	L5	True	10100.00	10076.64	99.8
7	LD79	L6	True	25250.00	25365.65	100.5





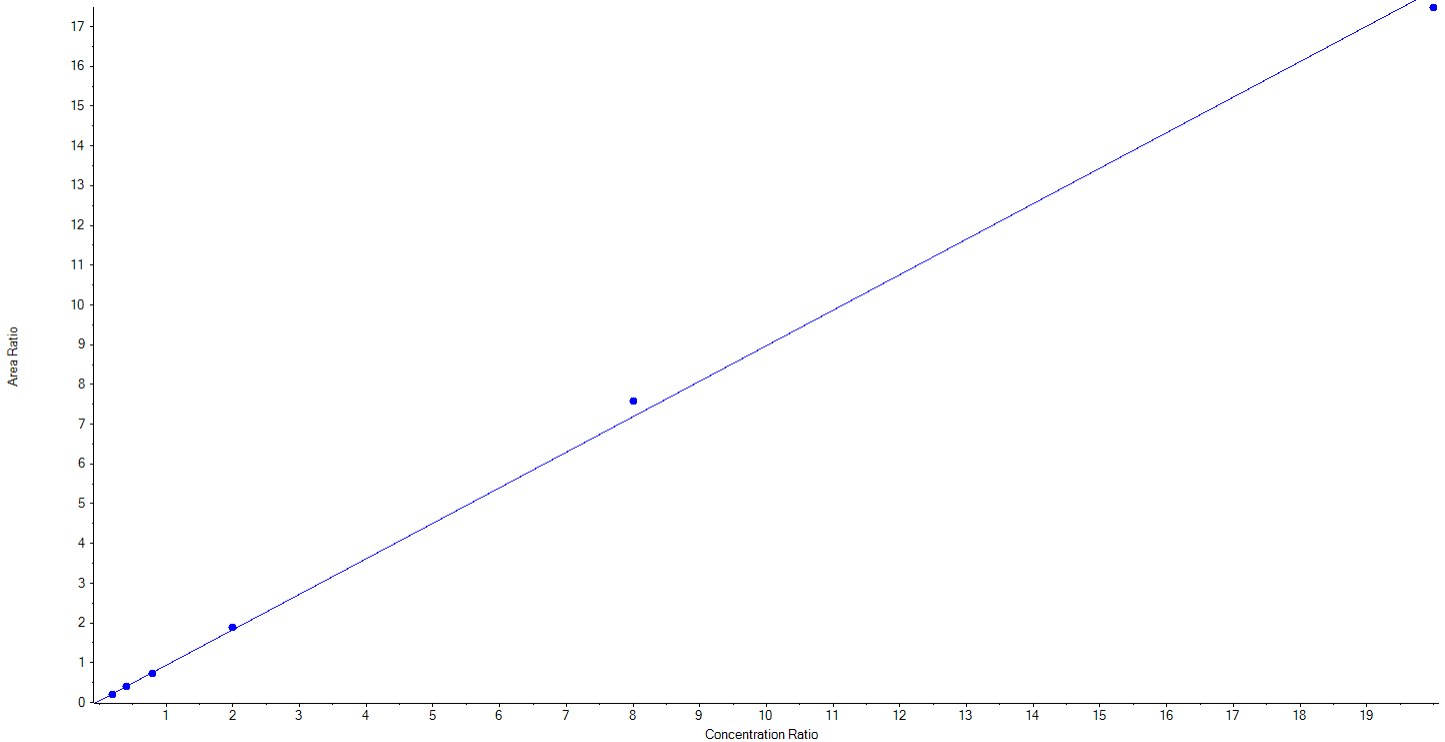
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Analyte Name	PFHpA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	363.0 / 319.0	Result Table	20-1321
Internal Standard	13C4-PFHpA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.89315x + 0.04294$ ($r = 0.99926$) (weighting: $1/x$) $r^2: 0.9985$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	237.41	95.0
3	LD75	L2	True	500.00	515.86	103.2
4	LD76	L3	True	1000.00	955.07	95.5
5	LD77	L4	True	2500.00	2578.82	103.2
6	LD78	L5	True	10000.00	10559.06	105.6
7	LD79	L6	True	25000.00	24403.79	97.6





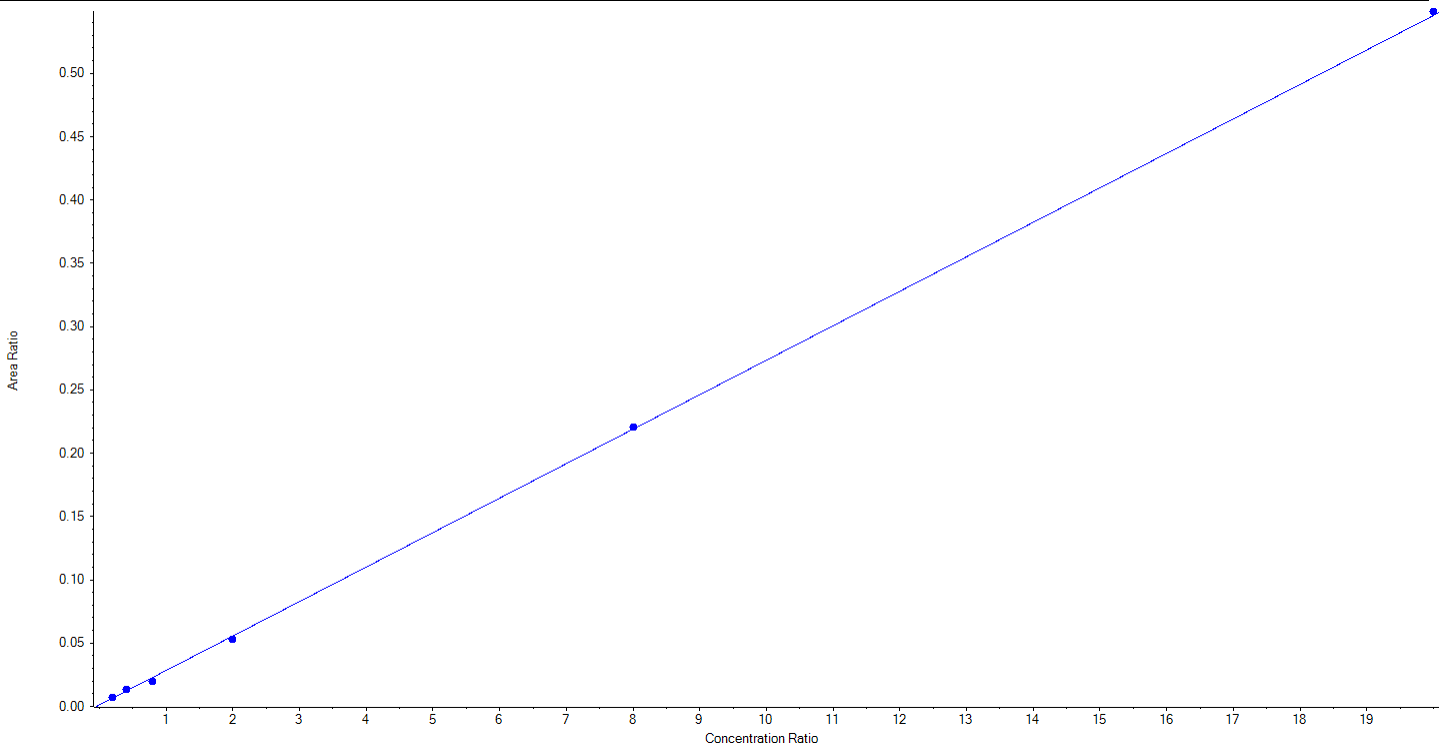
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Analyte Name	PFHpA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	363.0 / 169.0	Result Table	20-1321
Internal Standard	13C4-PFHpA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.02722 x + 0.00123$ ($r = 0.99934$) (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	250.00	265.87	106.4
3	LD75	L2	True	500.00	570.18	114.0
4	LD76	L3	True	1000.00	838.61	83.9
5	LD77	L4	True	2500.00	2361.90	94.5
6	LD78	L5	True	10000.00	10070.84	100.7
7	LD79	L6	True	25000.00	25142.60	100.6





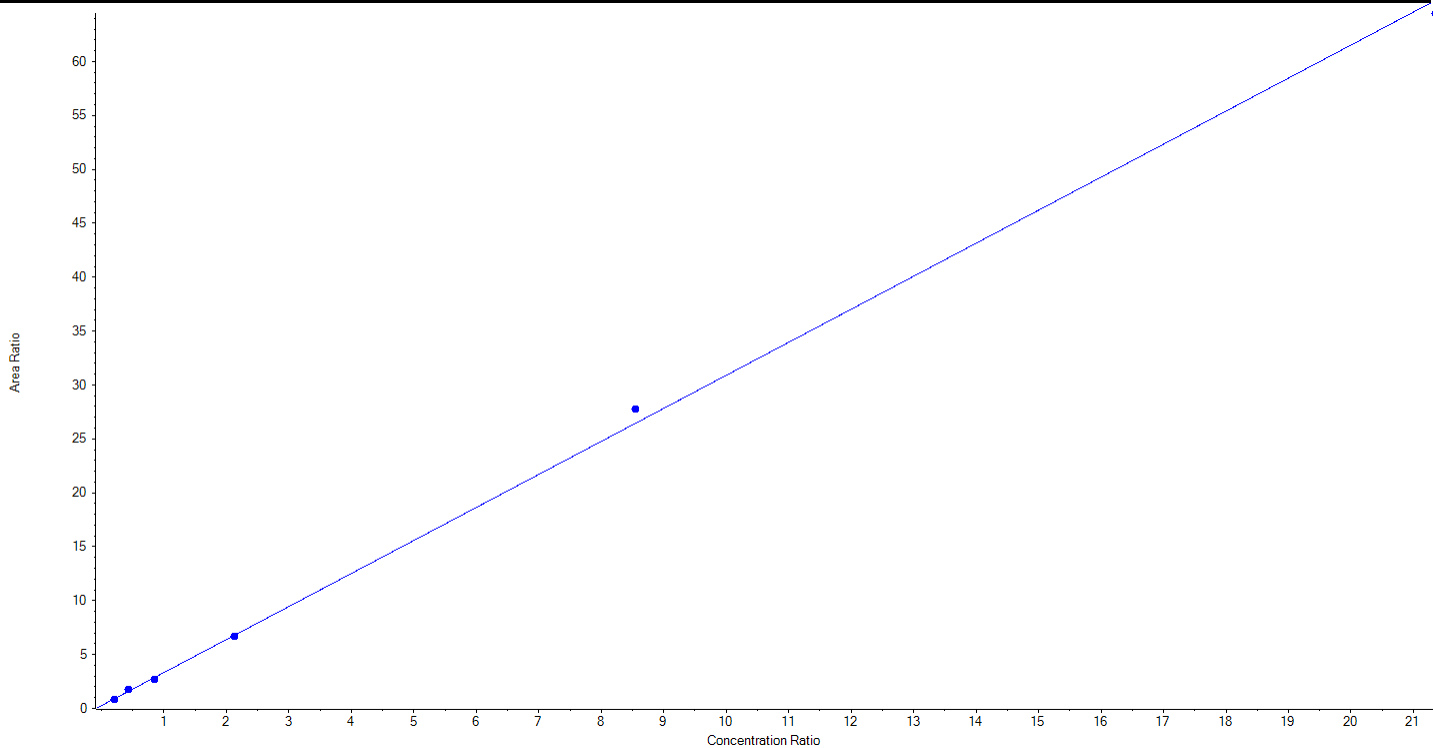
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Analyte Name	PFHxS_1	Data File	AE_11112020_5-369.wiff
MRM Transition	399.0 / 80.0	Result Table	20-1321
Internal Standard	13C3-PFHxS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 3.06289x + 0.26782$ ($r = 0.99915$) (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	252.50	218.55	86.6
3	LD75	L2	True	505.00	593.65	117.6
4	LD76	L3	True	1010.00	950.95	94.2
5	LD77	L4	True	2525.00	2487.80	98.5
6	LD78	L5	True	10100.00	10612.96	105.1
7	LD79	L6	True	25250.00	24778.59	98.1





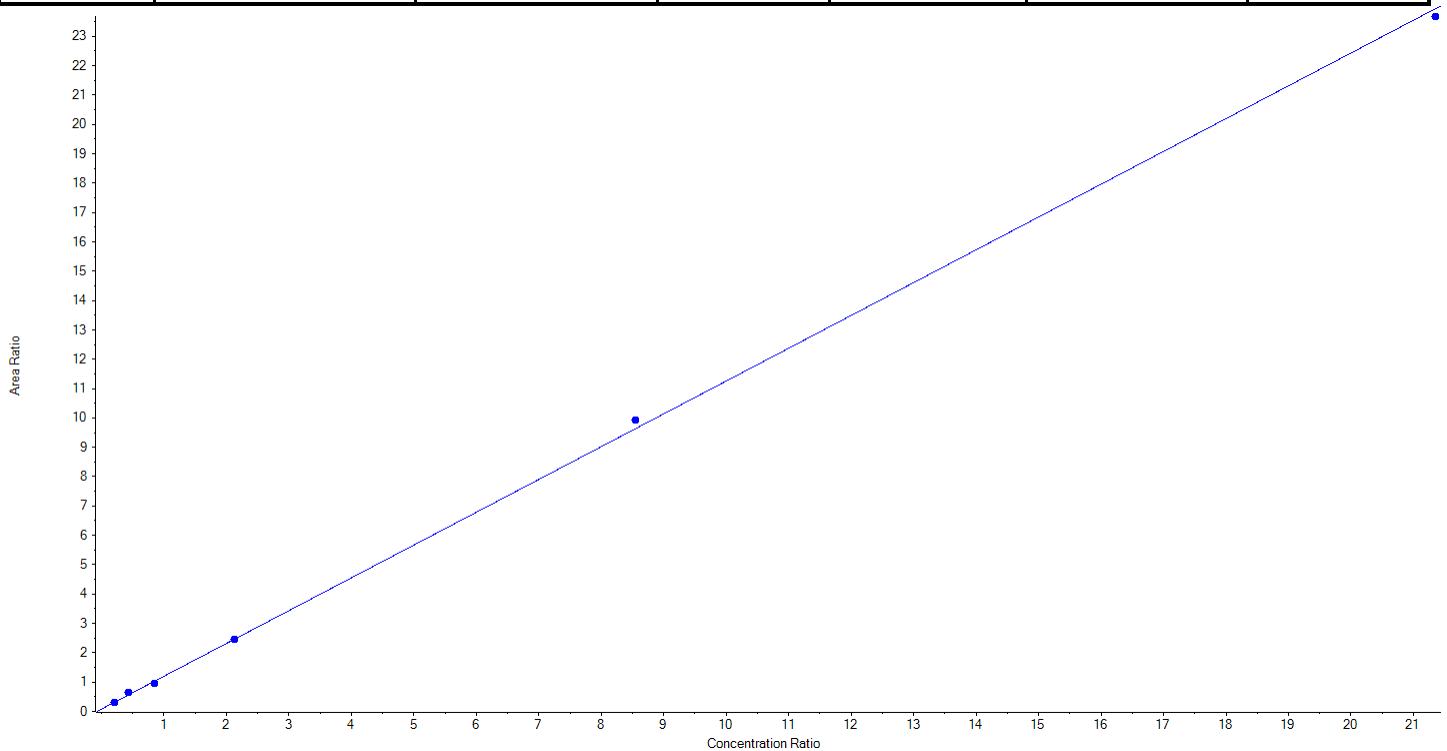
Calibration Summary Report

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Analyte Name	PFHxS_2	Data File	AE_11112020_5-369.wiff
MRM Transition	399.0 / 99.0	Result Table	20-1321
Internal Standard	13C3-PFHxS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.11747 x + 0.08302$ ($r = 0.99941$) (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	252.50	219.93	87.1
3	LD75	L2	True	505.00	601.05	119.0
4	LD76	L3	True	1010.00	933.84	92.5
5	LD77	L4	True	2525.00	2511.73	99.5
6	LD78	L5	True	10100.00	10410.03	103.1
7	LD79	L6	True	25250.00	24965.91	98.9





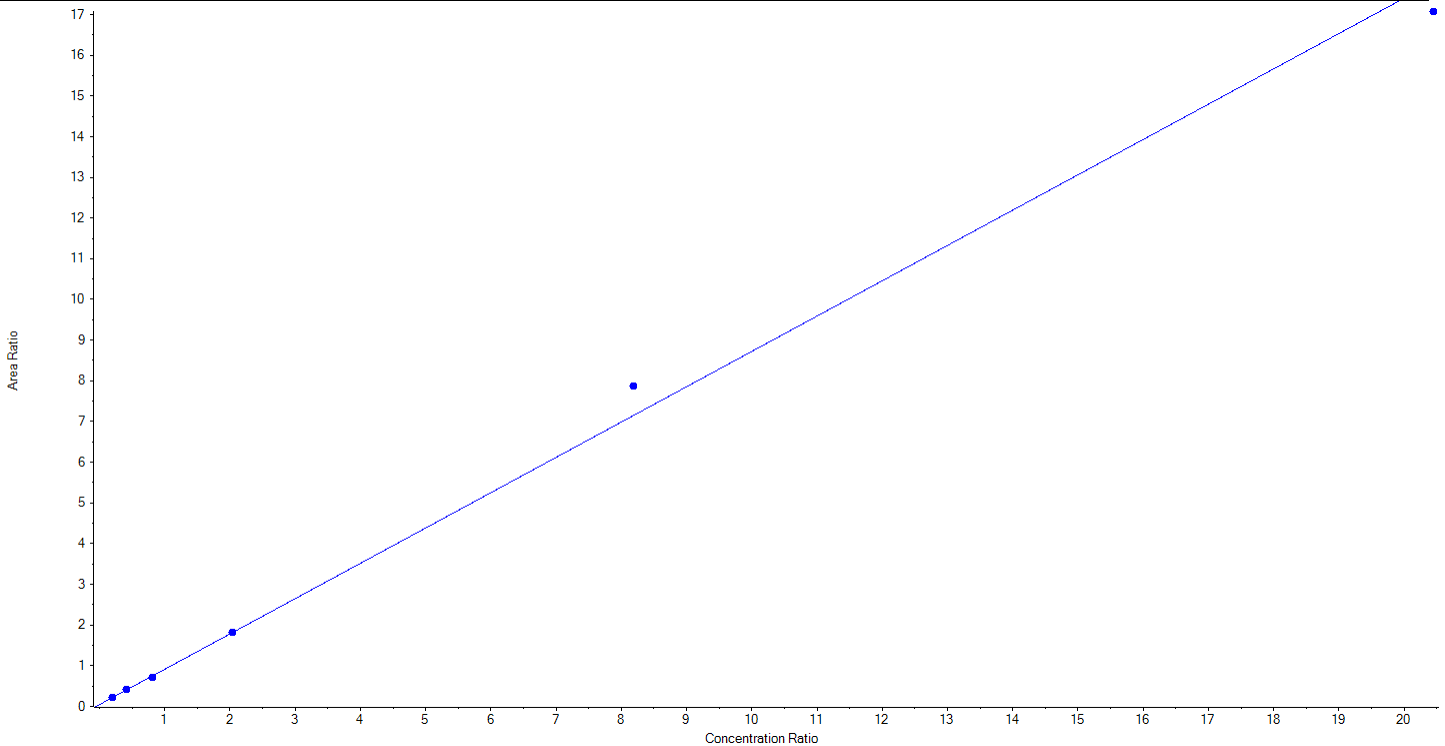
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Analyte Name	PFOA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	413.0 / 369.0	Result Table	20-1321
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.86769x + 0.04594$ ($r = 0.99778$) (weighting: $1/x$) $r^2: 0.9956$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	234.13	93.7
3	LD75	L2	True	500.00	521.41	104.3
4	LD76	L3	True	1000.00	951.63	95.2
5	LD77	L4	True	2500.00	2513.52	100.5
6	LD78	L5	True	10000.00	11040.97	110.4
7	LD79	L6	True	25000.00	23988.34	96.0





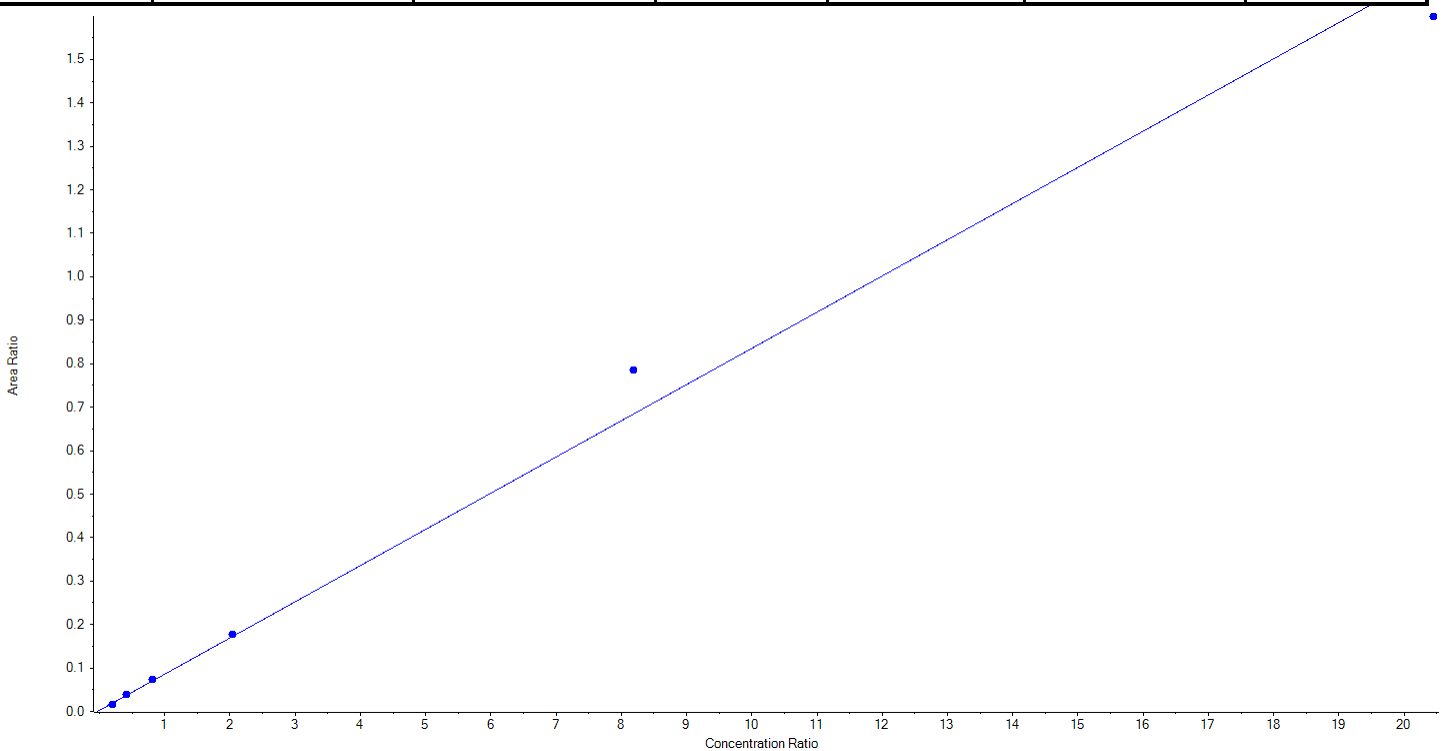
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Analyte Name	PFOA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	413.0 / 169.0	Result Table	20-1321
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.08327 x + 0.00257$ ($r = 0.99522$) (weighting: $1/x$) $r^2: 0.9905$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	202.09	80.8
3	LD75	L2	True	500.00	522.04	104.4
4	LD76	L3	True	1000.00	1029.03	102.9
5	LD77	L4	True	2500.00	2582.52	103.3
6	LD78	L5	True	10000.00	11482.82	114.8
7	LD79	L6	True	25000.00	23431.50	93.7





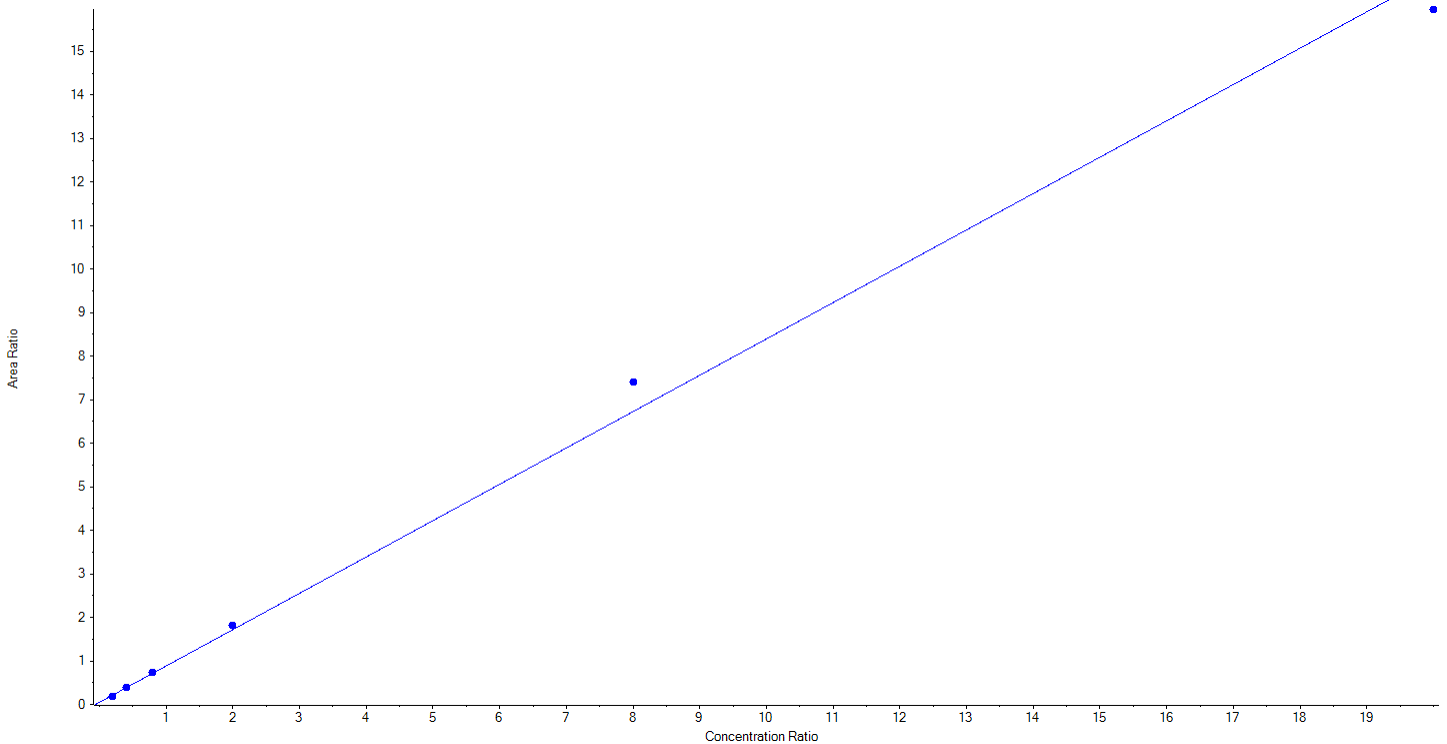
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Analyte Name	PFNA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	463.0 / 419.0	Result Table	20-1321
Internal Standard	13C9-PFNA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.83479x + 0.04939$ ($r = 0.99744$) (weighting: $1/x$) $r^2: 0.9949$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	204.48	81.8
3	LD75	L2	True	500.00	517.98	103.6
4	LD76	L3	True	1000.00	1027.95	102.8
5	LD77	L4	True	2500.00	2659.59	106.4
6	LD78	L5	True	10000.00	11012.08	110.1
7	LD79	L6	True	25000.00	23827.92	95.3





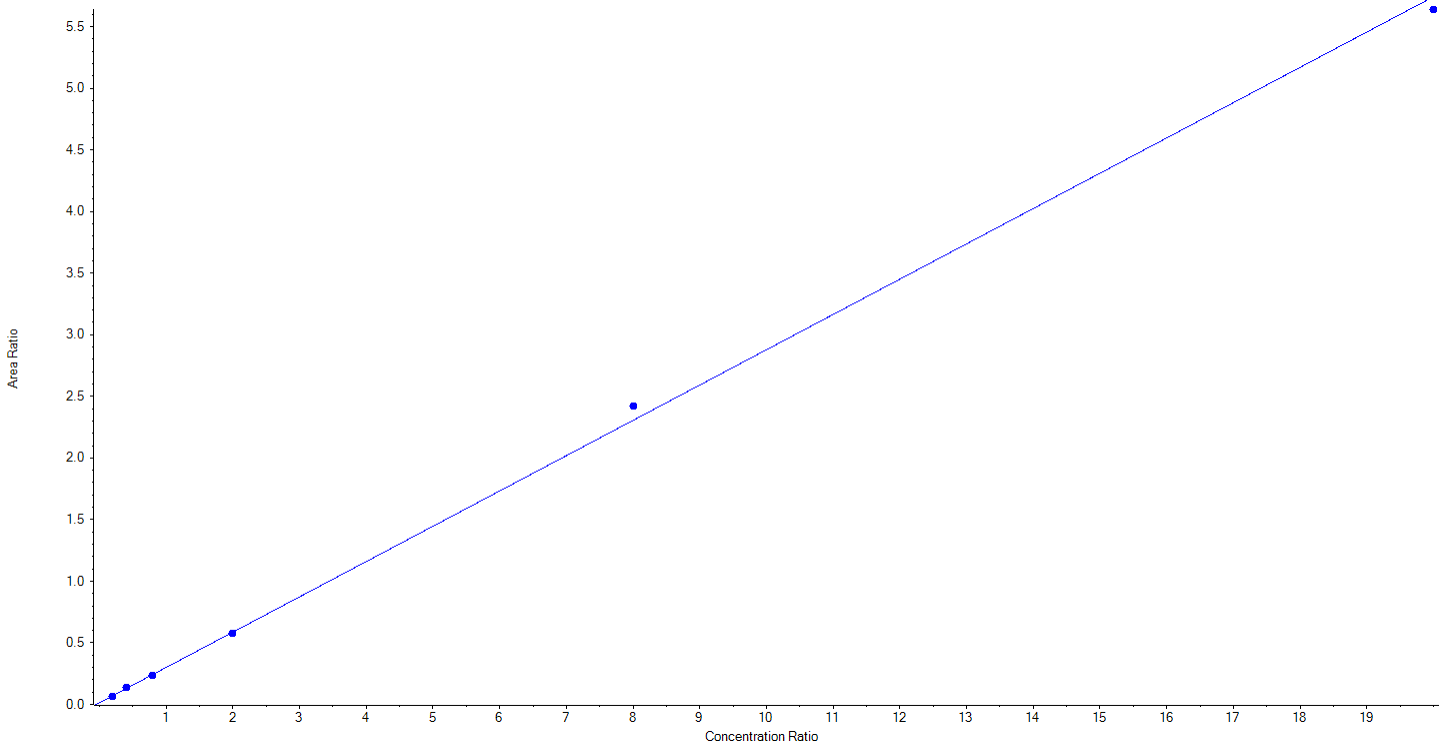
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Analyte Name	PFNA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	463.0 / 219.0	Result Table	20-1321
Internal Standard	13C9-PFNA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.28640x + 0.01413$ ($r = 0.99948$) (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	234.57	93.8
3	LD75	L2	True	500.00	531.13	106.2
4	LD76	L3	True	1000.00	982.53	98.3
5	LD77	L4	True	2500.00	2465.21	98.6
6	LD78	L5	True	10000.00	10489.77	104.9
7	LD79	L6	True	25000.00	24546.79	98.2





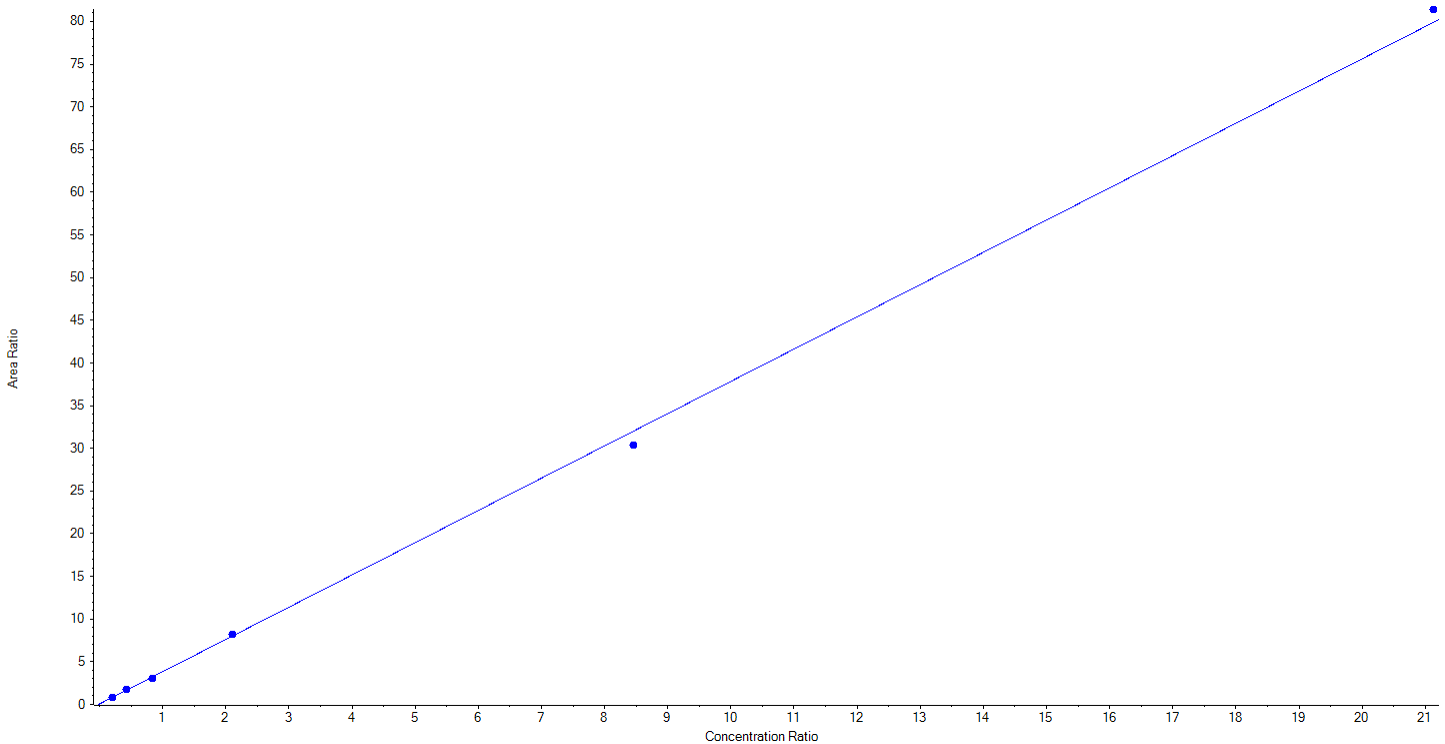
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Analyte Name	PFOS_1	Data File	AE_11112020_5-369.wiff
MRM Transition	499.0 / 80.0	Result Table	20-1321
Internal Standard	13C8-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 3.77817x + 0.05862$ ($r = 0.99934$) (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	243.61	96.5
3	LD75	L2	True	505.00	555.51	110.0
4	LD76	L3	True	1010.00	953.32	94.4
5	LD77	L4	True	2525.00	2585.72	102.4
6	LD78	L5	True	10100.00	9579.12	94.8
7	LD79	L6	True	25250.00	25725.22	101.9





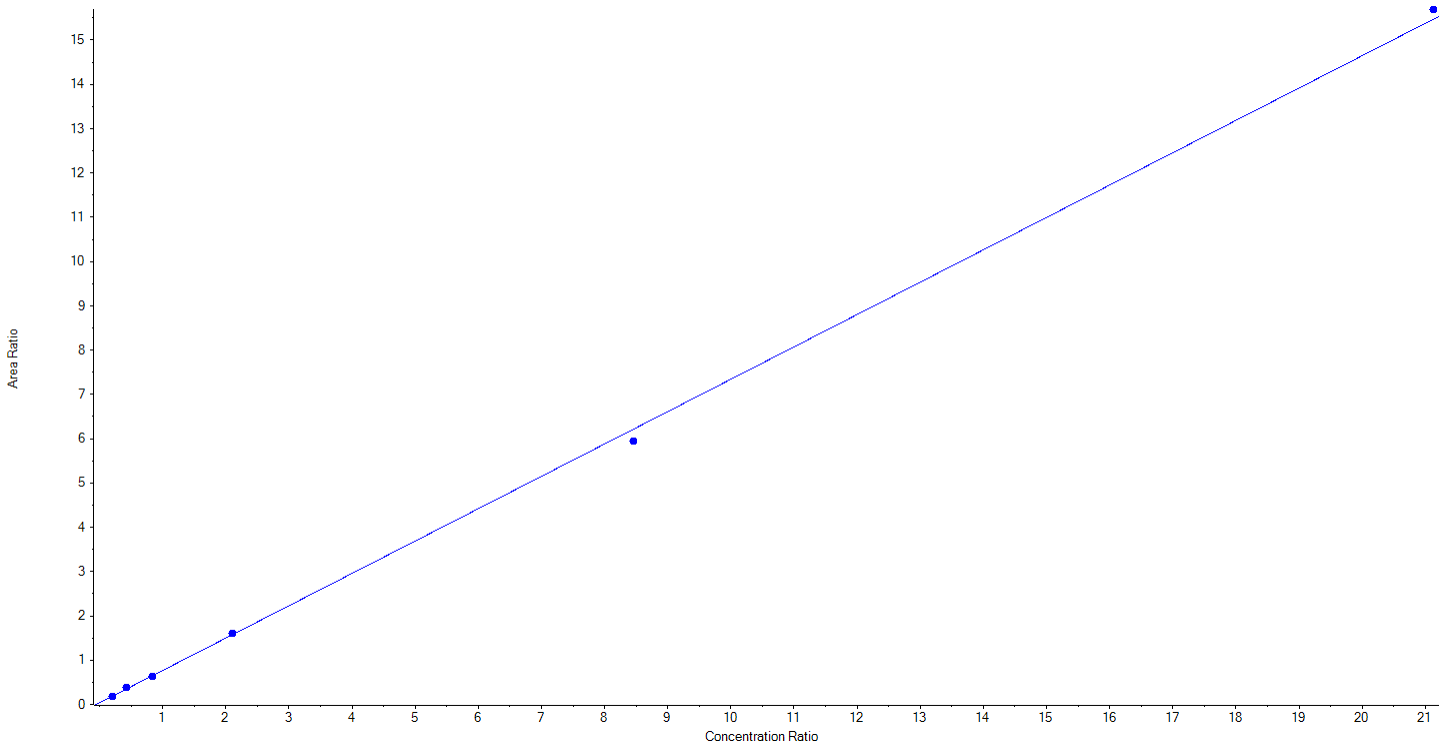
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Analyte Name	PFOS_2	Data File	AE_11112020_5-369.wiff
MRM Transition	499.0 / 99.0	Result Table	20-1321
Internal Standard	13C8-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.73053x + 0.03675$ ($r = 0.99950$) (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	228.45	90.5
3	LD75	L2	True	505.00	568.18	112.5
4	LD76	L3	True	1010.00	986.71	97.7
5	LD77	L4	True	2525.00	2578.14	102.1
6	LD78	L5	True	10100.00	9676.81	95.8
7	LD79	L6	True	25250.00	25604.20	101.4





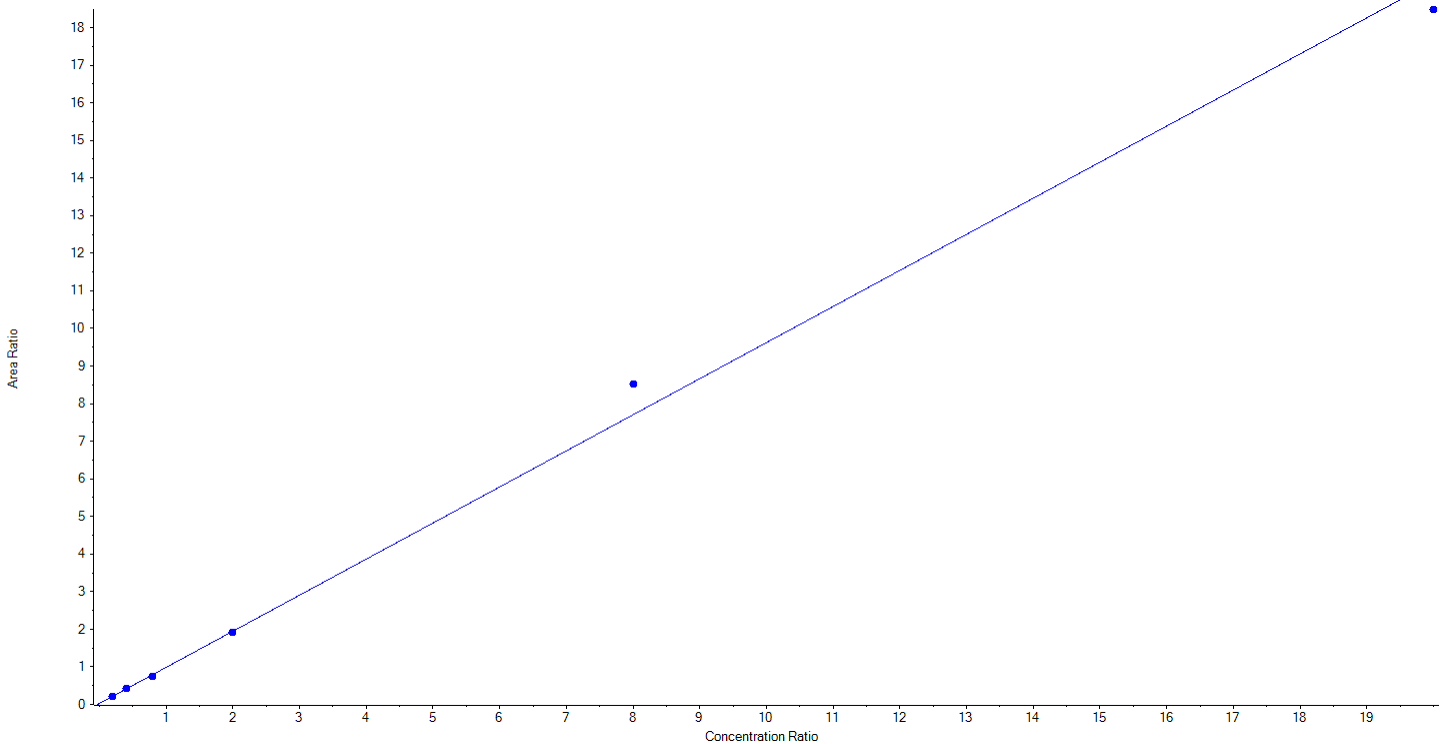
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Analyte Name	PFDA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	513.0 / 469.0	Result Table	20-1321
Internal Standard	13C6-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.95941x + 0.02877$ ($r = 0.99780$) (weighting: $1/x$) $r^2: 0.9956$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	239.54	95.8
3	LD75	L2	True	500.00	524.78	105.0
4	LD76	L3	True	1000.00	942.25	94.2
5	LD77	L4	True	2500.00	2459.70	98.4
6	LD78	L5	True	10000.00	11046.54	110.5
7	LD79	L6	True	25000.00	24037.19	96.2





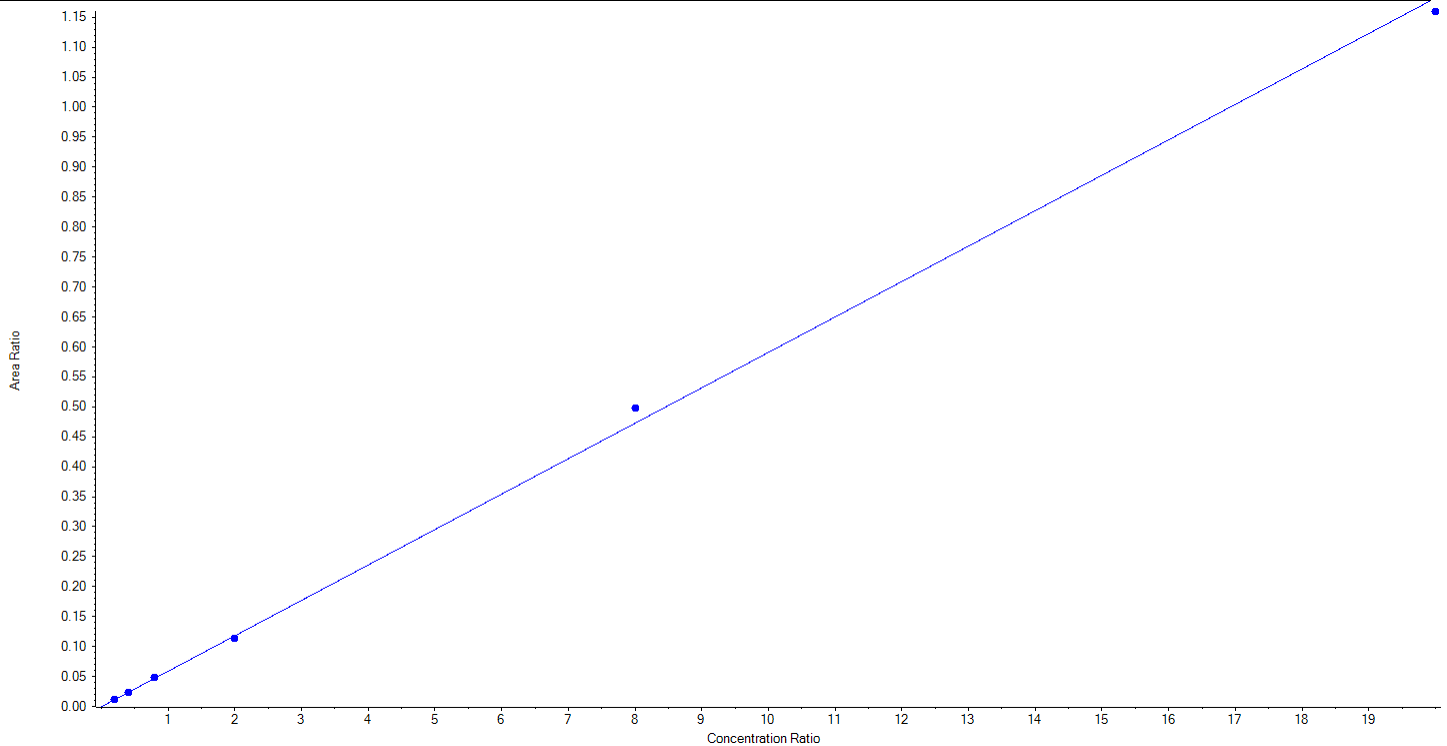
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Analyte Name	PFDA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	513.0 / 219.0	Result Table	20-1321
Internal Standard	13C6-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.05911 x + -3.07024e-4$ ($r = 0.99935$) (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	250.00	245.29	98.1
3	LD75	L2	True	500.00	494.75	99.0
4	LD76	L3	True	1000.00	1033.09	103.3
5	LD77	L4	True	2500.00	2400.27	96.0
6	LD78	L5	True	10000.00	10551.11	105.5
7	LD79	L6	True	25000.00	24525.49	98.1





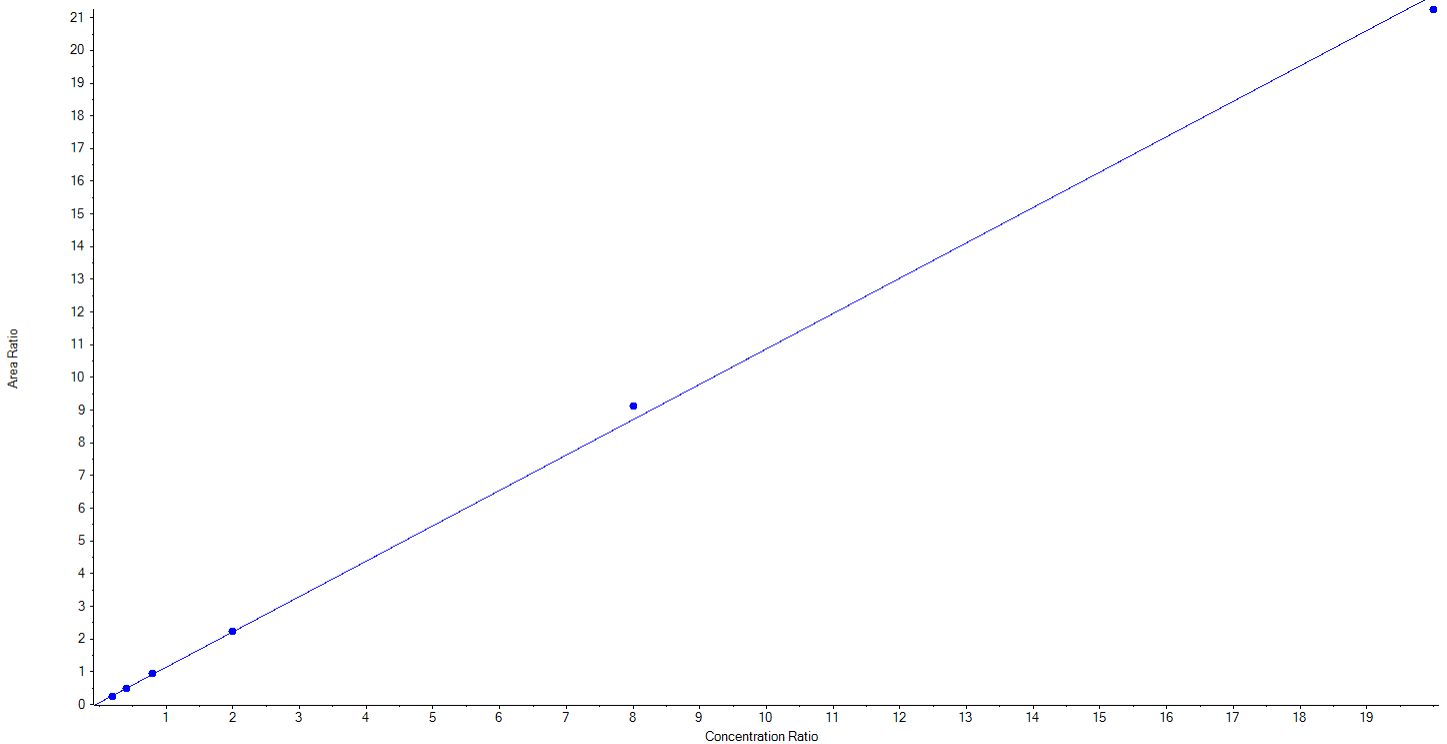
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Analyte Name	PFUnA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	563.0 / 519.0	Result Table	20-1321
Internal Standard	13C7-PFUnA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.08164 x + 0.05711$ ($r = 0.99947$) (weighting: $1/x$) $r^2: 0.9989$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	226.20	90.5
3	LD75	L2	True	500.00	513.60	102.7
4	LD76	L3	True	1000.00	1039.13	103.9
5	LD77	L4	True	2500.00	2504.49	100.2
6	LD78	L5	True	10000.00	10473.22	104.7
7	LD79	L6	True	25000.00	24493.35	98.0





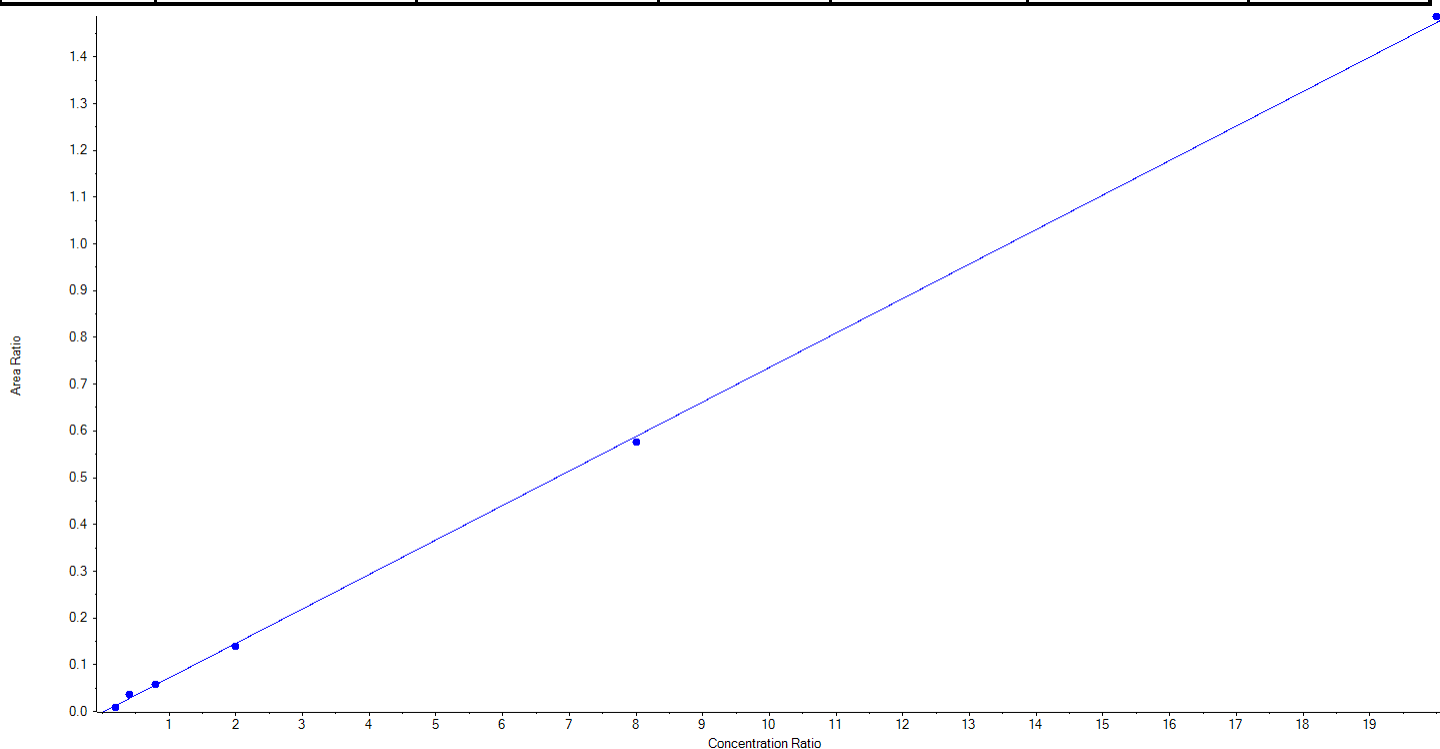
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Analyte Name	PFUnA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	563.0 / 269.0	Result Table	20-1321
Internal Standard	13C7-PFUnA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.07377 x + -0.00193$ ($r = 0.99903$) (weighting: $1 / x$) $r^2: 0.9981$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	189.89	76.0
3	LD75	L2	True	500.00	642.73	128.6
4	LD76	L3	True	1000.00	1013.90	101.4
5	LD77	L4	True	2500.00	2379.41	95.2
6	LD78	L5	True	10000.00	9805.96	98.1
7	LD79	L6	True	25000.00	25218.12	100.9





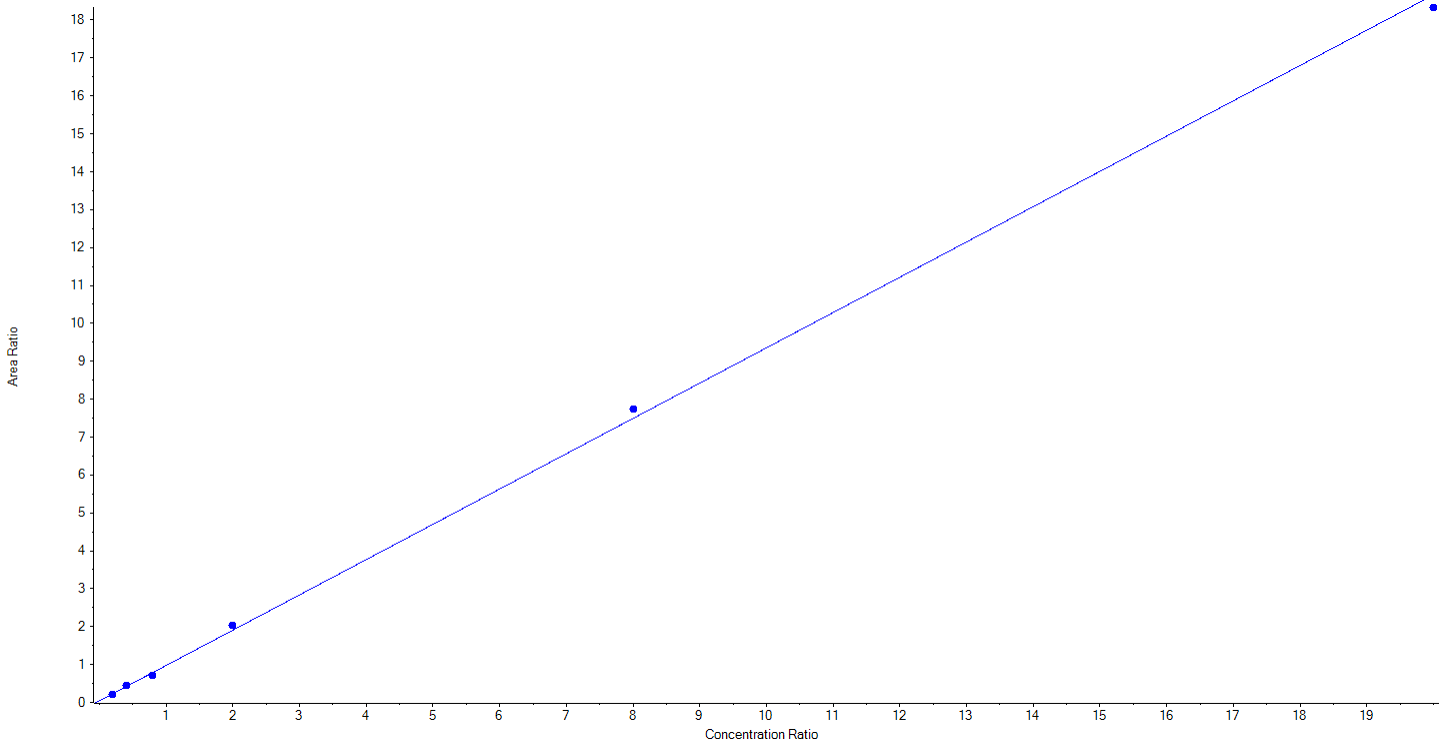
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Analyte Name	PFD _o A_1	Data File	AE_11112020_5-369.wiff
MRM Transition	613.0 / 569.0	Result Table	20-1321
Internal Standard	13C2-PFD _o A	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.93088x + 0.04545$ ($r = 0.99932$) (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	226.79	90.7
3	LD75	L2	True	500.00	551.21	110.2
4	LD76	L3	True	1000.00	907.33	90.7
5	LD77	L4	True	2500.00	2665.80	106.6
6	LD78	L5	True	10000.00	10347.02	103.5
7	LD79	L6	True	25000.00	24551.85	98.2





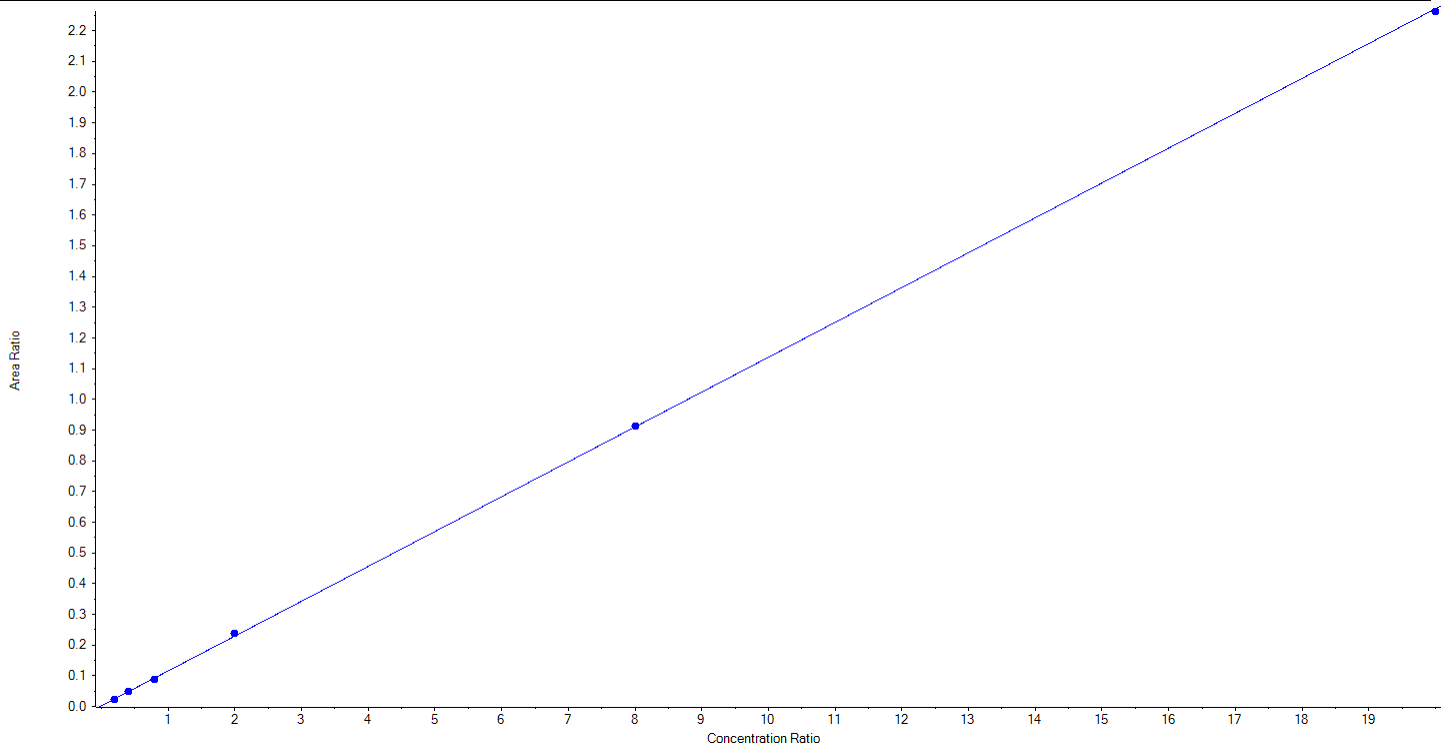
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Analyte Name	PFD _o A_2	Data File	AE_11112020_5-369.wiff
MRM Transition	613.0 / 319.0	Result Table	20-1321
Internal Standard	13C2-PFD _o A	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.11347x + 0.00233$ ($r = 0.99984$) (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	242.69	97.1
3	LD75	L2	True	500.00	526.36	105.3
4	LD76	L3	True	1000.00	934.80	93.5
5	LD77	L4	True	2500.00	2603.34	104.1
6	LD78	L5	True	10000.00	10044.61	100.5
7	LD79	L6	True	25000.00	24898.20	99.6





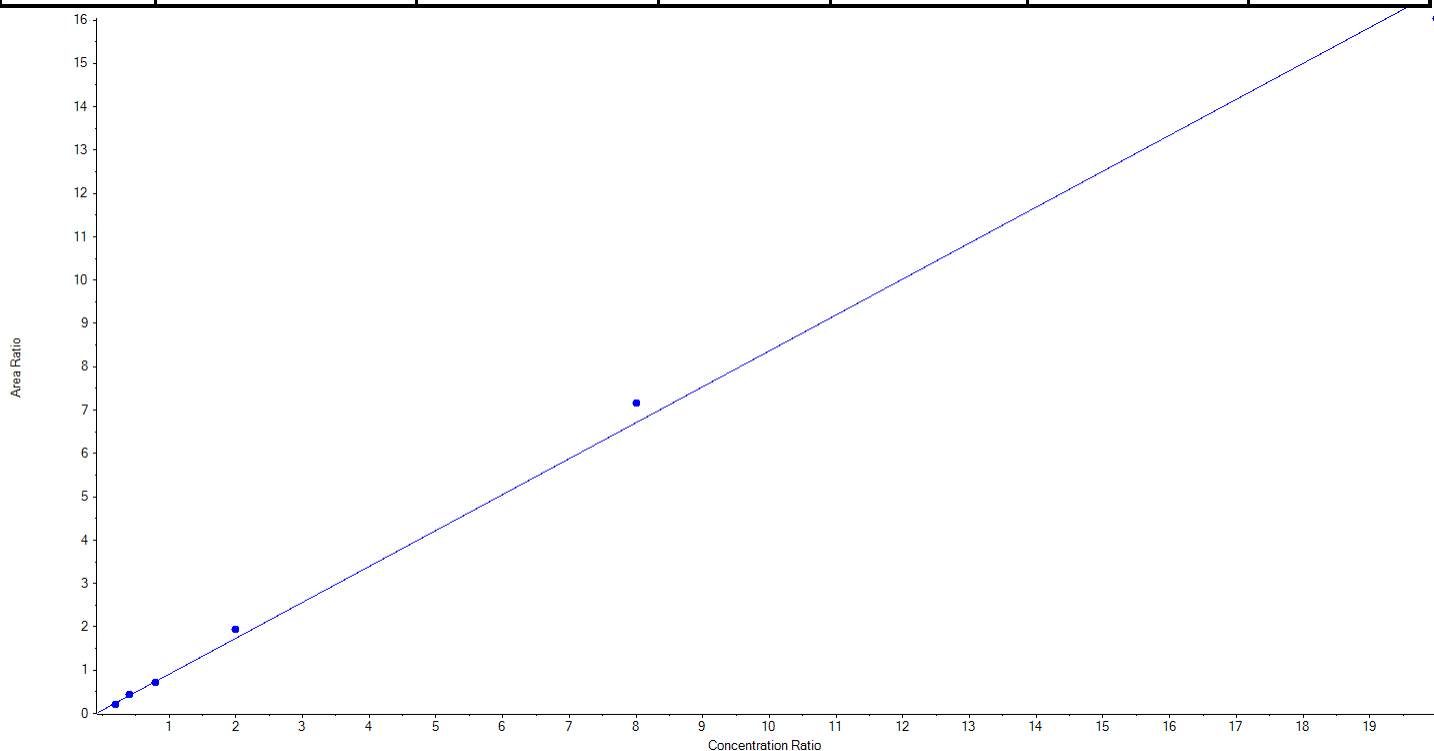
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Analyte Name	PFTrDA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	663.0 / 619.0	Result Table	20-1321
Internal Standard	13C2-PFTeDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.82904x + 0.07782$ ($r = 0.99809$) (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	202.17	80.9
3	LD75	L2	True	500.00	541.55	108.3
4	LD76	L3	True	1000.00	959.63	96.0
5	LD77	L4	True	2500.00	2791.88	111.7
6	LD78	L5	True	10000.00	10694.03	106.9
7	LD79	L6	True	25000.00	24060.74	96.2





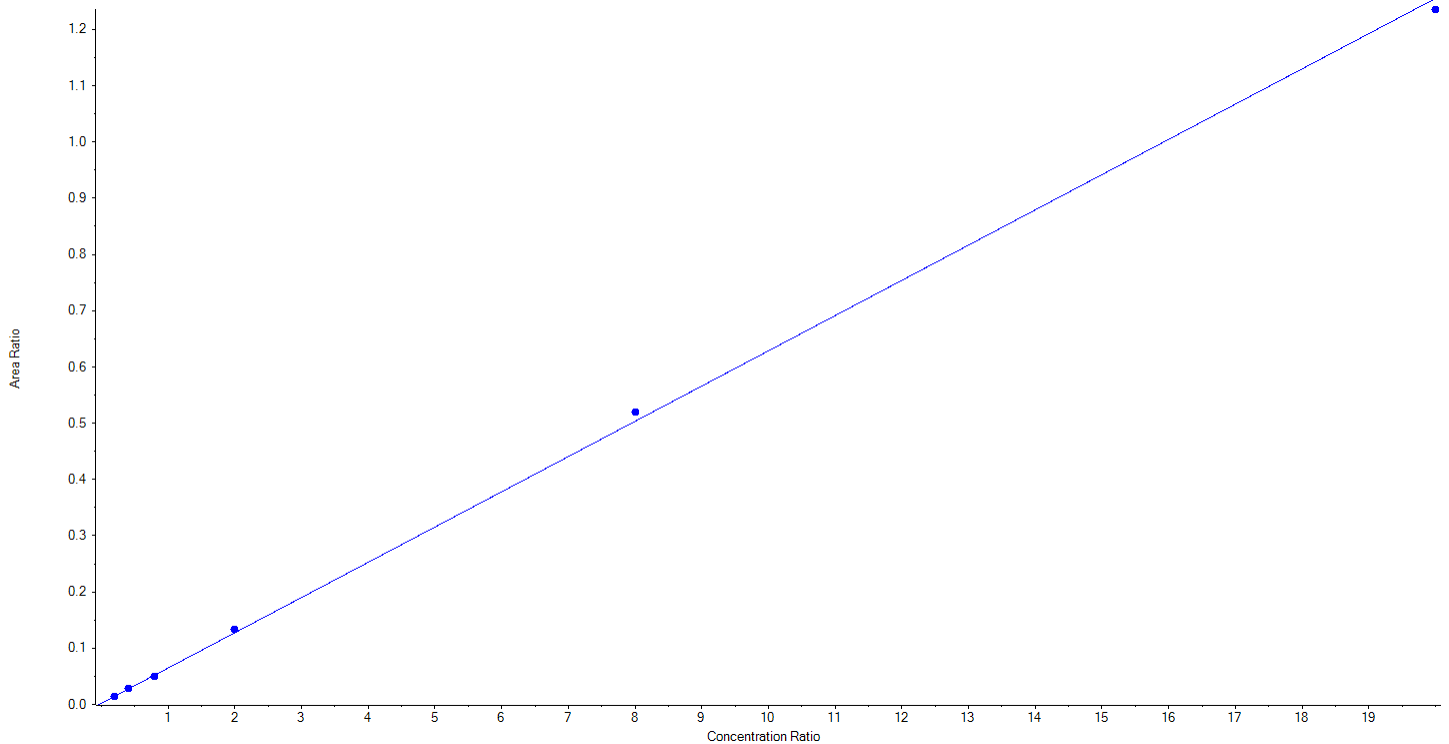
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Analyte Name	PFTrDA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	663.0 / 169.0	Result Table	20-1321
Internal Standard	13C2-PFTrDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.06265x + 0.00222$ ($r = 0.99957$) (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	235.68	94.3
3	LD75	L2	True	500.00	529.39	105.9
4	LD76	L3	True	1000.00	932.95	93.3
5	LD77	L4	True	2500.00	2622.14	104.9
6	LD78	L5	True	10000.00	10324.99	103.3
7	LD79	L6	True	25000.00	24604.84	98.4





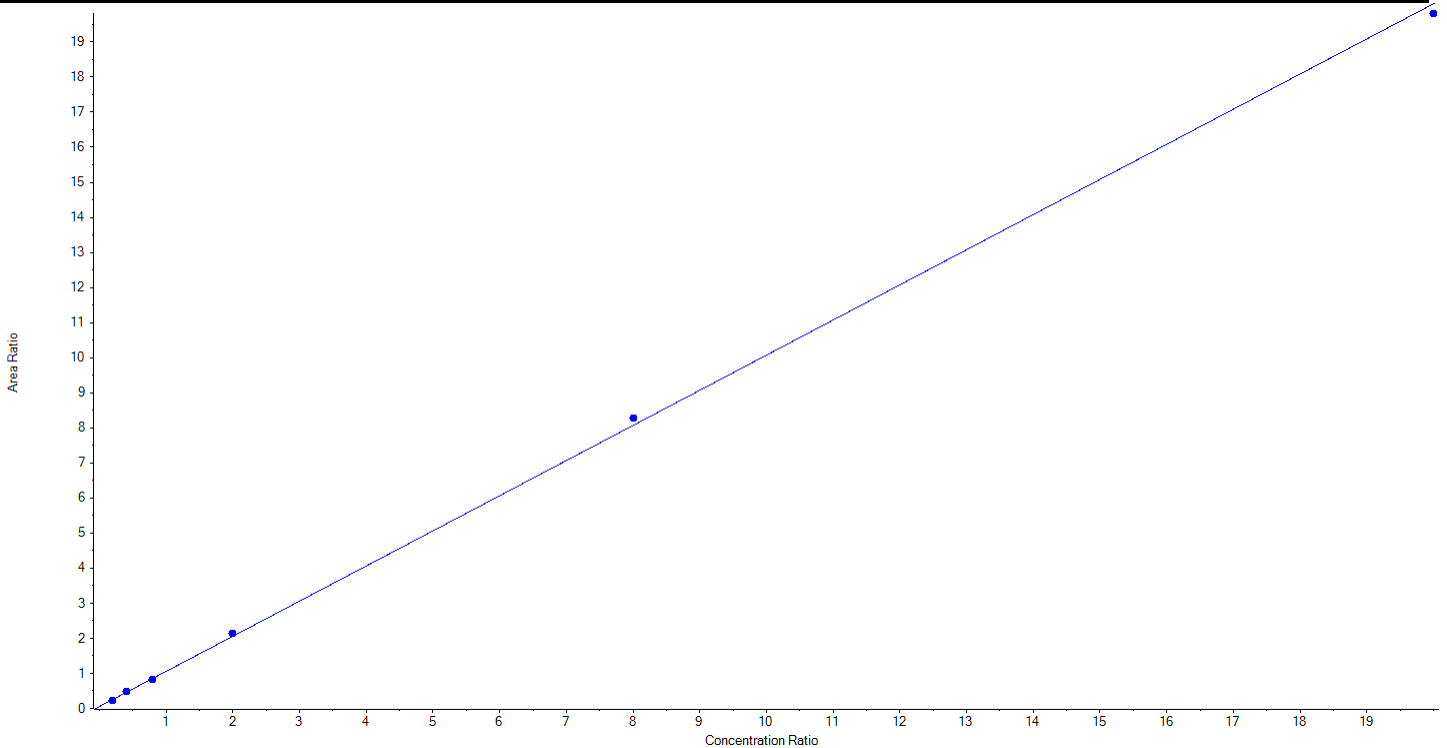
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Analyte Name	PFTeDA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	713.0 / 669.0	Result Table	20-1321
Internal Standard	13C2-PFTeDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.00156x + 0.05714$ ($r = 0.99969$) (weighting: $1/x$) $r^2: 0.9994$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	227.16	90.9
3	LD75	L2	True	500.00	536.50	107.3
4	LD76	L3	True	1000.00	967.74	96.8
5	LD77	L4	True	2500.00	2593.13	103.7
6	LD78	L5	True	10000.00	10272.28	102.7
7	LD79	L6	True	25000.00	24653.19	98.6





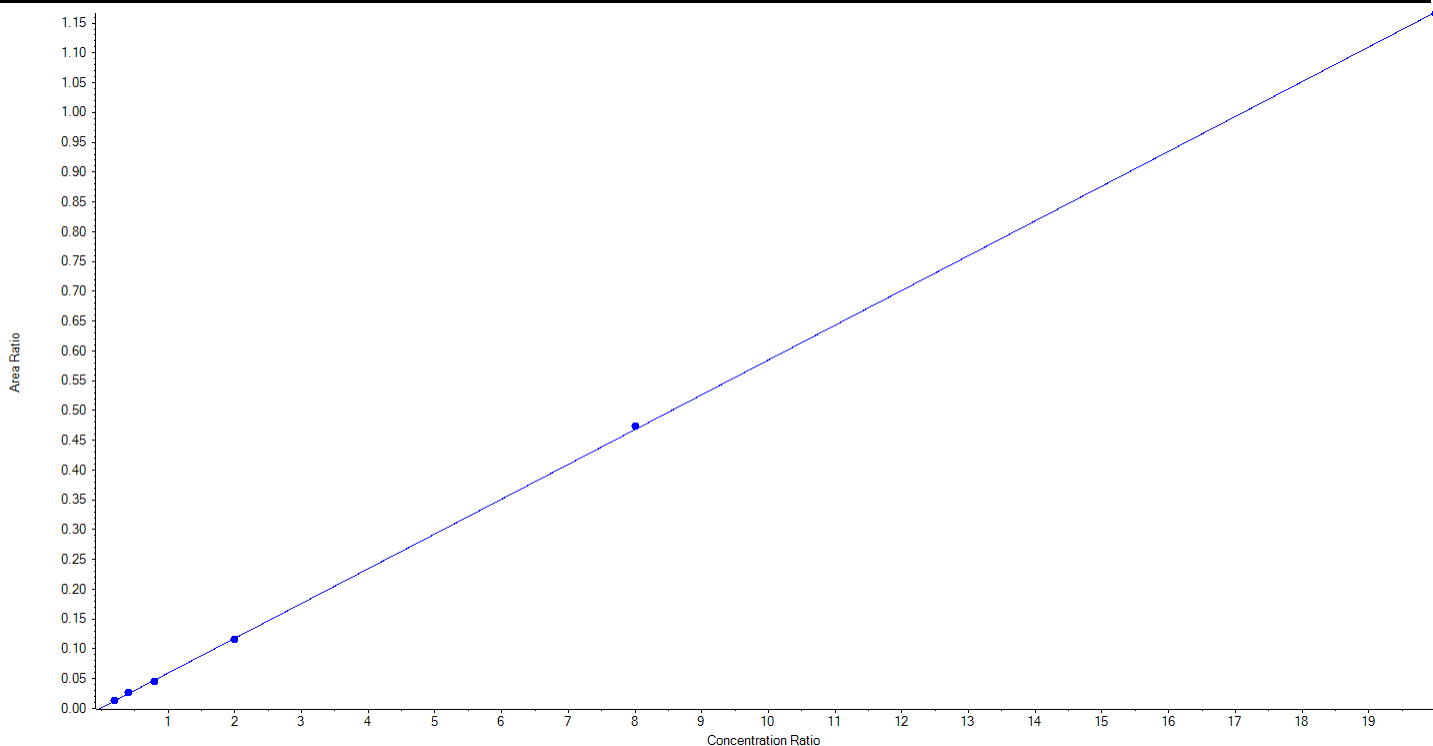
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Analyte Name	PFTeDA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	713.0 / 169.0	Result Table	20-1321
Internal Standard	13C2-PFTeDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.05836 x + 0.00116$ ($r = 0.99988$) (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	250.00	248.24	99.3
3	LD75	L2	True	500.00	535.85	107.2
4	LD76	L3	True	1000.00	943.80	94.4
5	LD77	L4	True	2500.00	2454.53	98.2
6	LD78	L5	True	10000.00	10116.71	101.2
7	LD79	L6	True	25000.00	24950.86	99.8





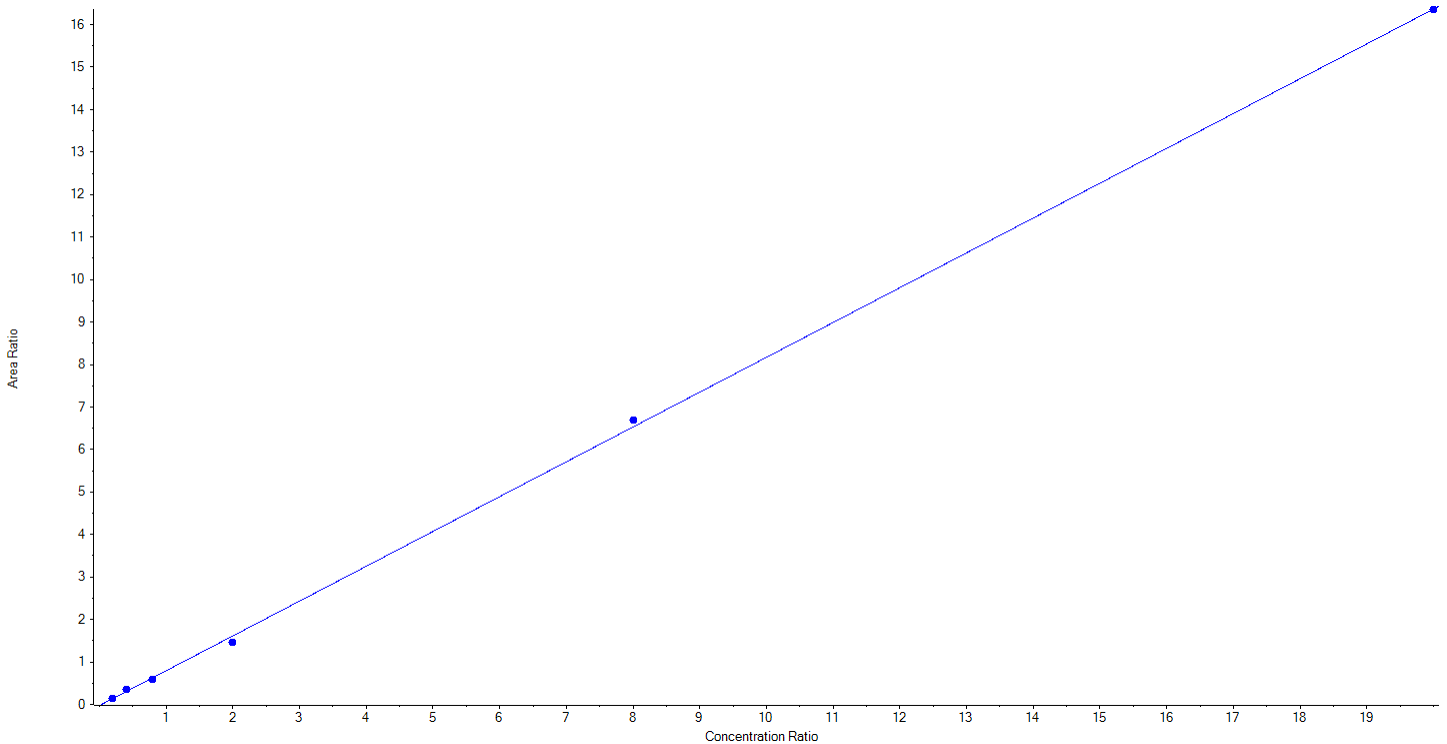
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Analyte Name	NMeFOSAA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	570.0 / 419.0	Result Table	20-1321
Internal Standard	d3-MeFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.81952x + -0.02509$ ($r = 0.99935$) (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	250.00	251.32	100.5
3	LD75	L2	True	500.00	567.47	113.5
4	LD76	L3	True	1000.00	933.45	93.4
5	LD77	L4	True	2500.00	2251.85	90.1
6	LD78	L5	True	10000.00	10262.64	102.6
7	LD79	L6	True	25000.00	24983.26	99.9





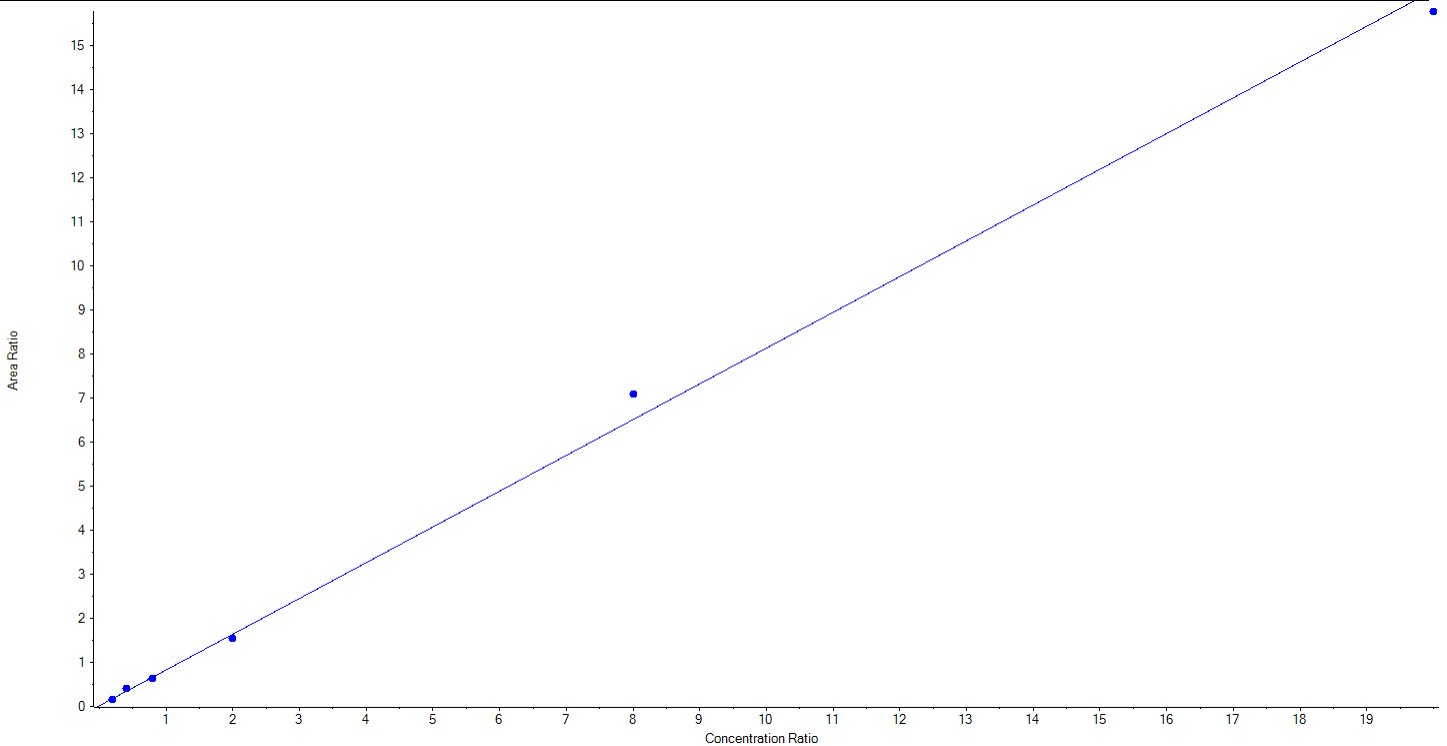
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Analyte Name	NMeFOSAA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	570.0 / 512.0	Result Table	20-1321
Internal Standard	d3-MeFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.81153x + 0.01847$ ($r = 0.99807$) (weighting: $1/x$) $r^2: 0.9961$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	218.24	87.3
3	LD75	L2	True	500.00	591.99	118.4
4	LD76	L3	True	1000.00	946.67	94.7
5	LD77	L4	True	2500.00	2343.25	93.7
6	LD78	L5	True	10000.00	10885.11	108.9
7	LD79	L6	True	25000.00	24264.74	97.1





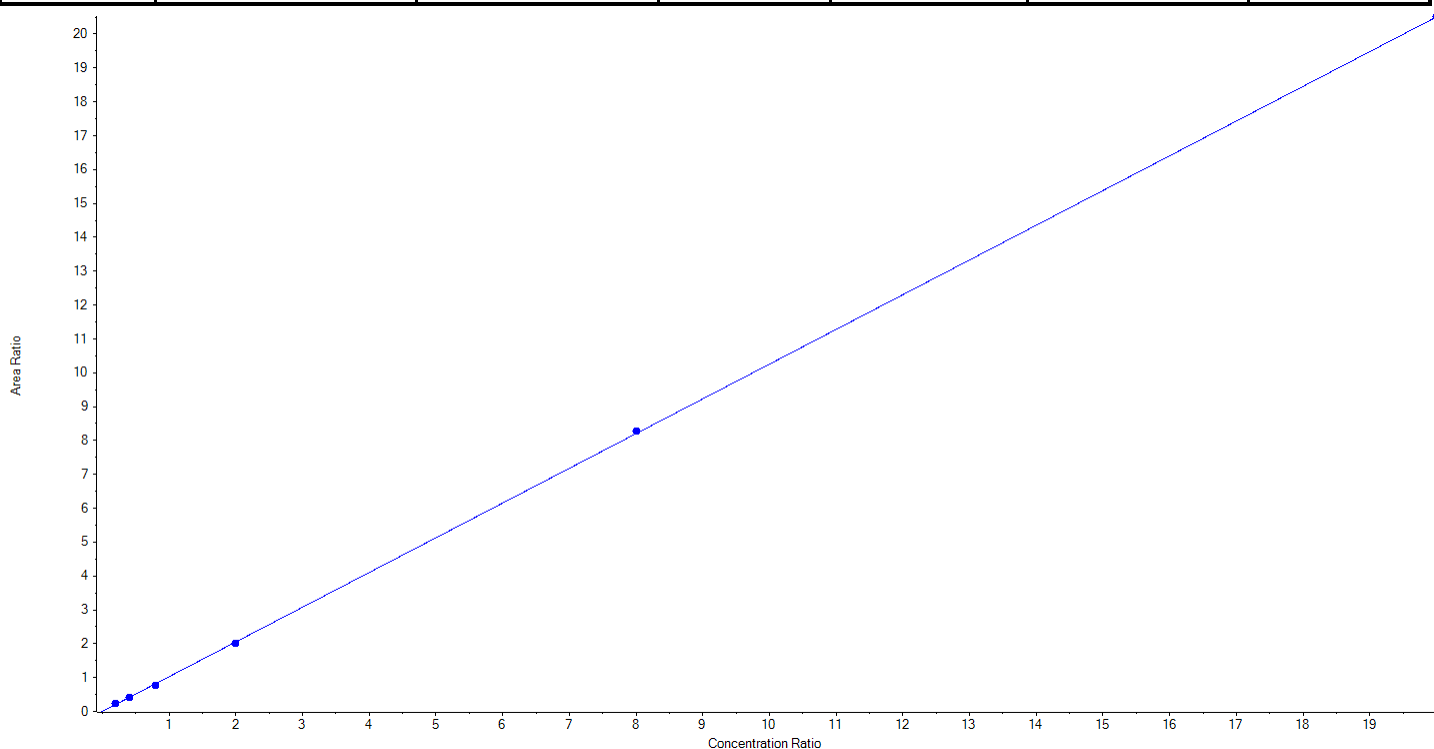
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Analyte Name	NEtFOSAA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	584.0 / 419.0	Result Table	20-1321
Internal Standard	d5-EtFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.02512x + 0.00342$ ($r = 0.99984$) (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	271.06	108.4
3	LD75	L2	True	500.00	505.91	101.2
4	LD76	L3	True	1000.00	917.60	91.8
5	LD77	L4	True	2500.00	2438.57	97.5
6	LD78	L5	True	10000.00	10103.94	101.0
7	LD79	L6	True	25000.00	25012.92	100.1





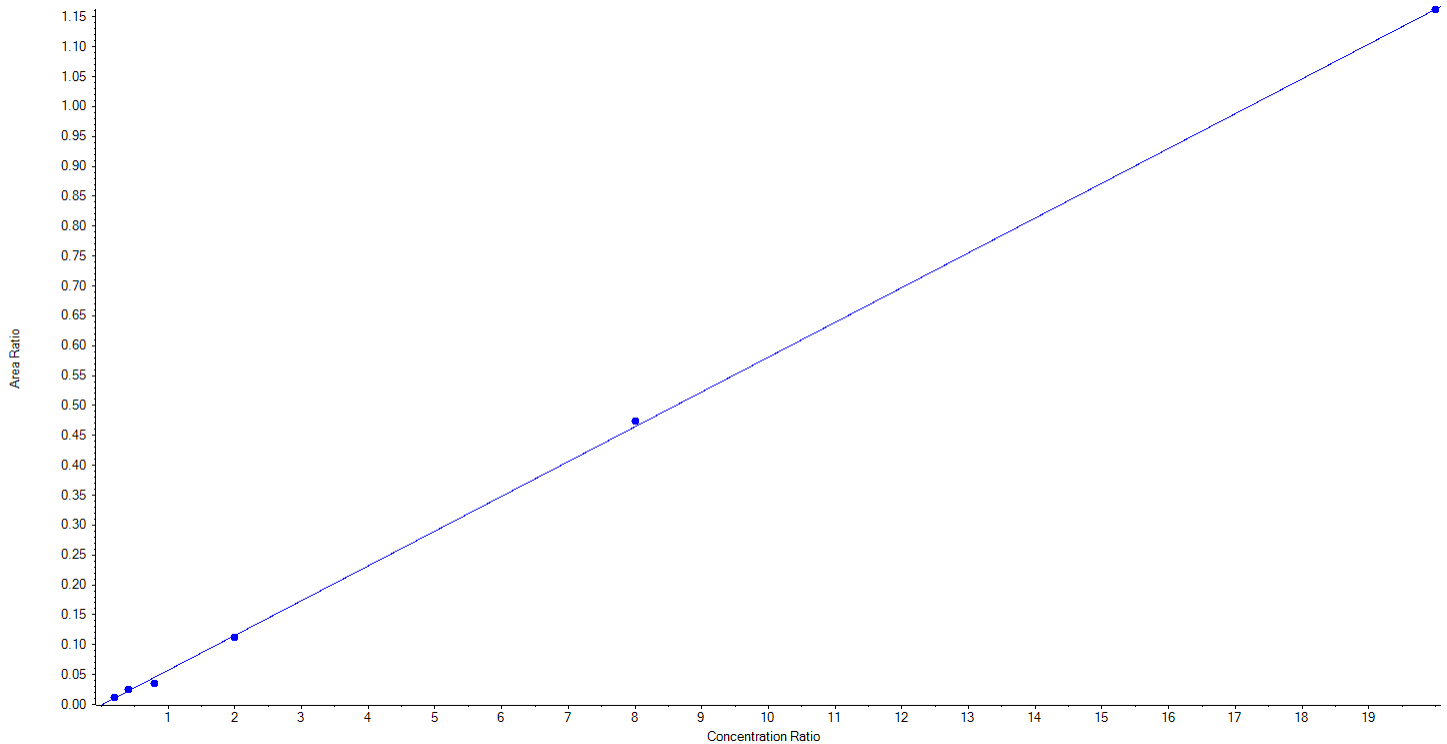
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Analyte Name	NEtFOSAA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	584.0 / 483.0	Result Table	20-1321
Internal Standard	d5-EtFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.05817x + -8.67908e-4$ ($r = 0.99901$) (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	269.44	107.8
3	LD75	L2	True	500.00	575.43	115.1
4	LD76	L3	True	1000.00	775.63	77.6
5	LD77	L4	True	2500.00	2441.08	97.6
6	LD78	L5	True	10000.00	10196.61	102.0
7	LD79	L6	True	25000.00	24991.82	100.0





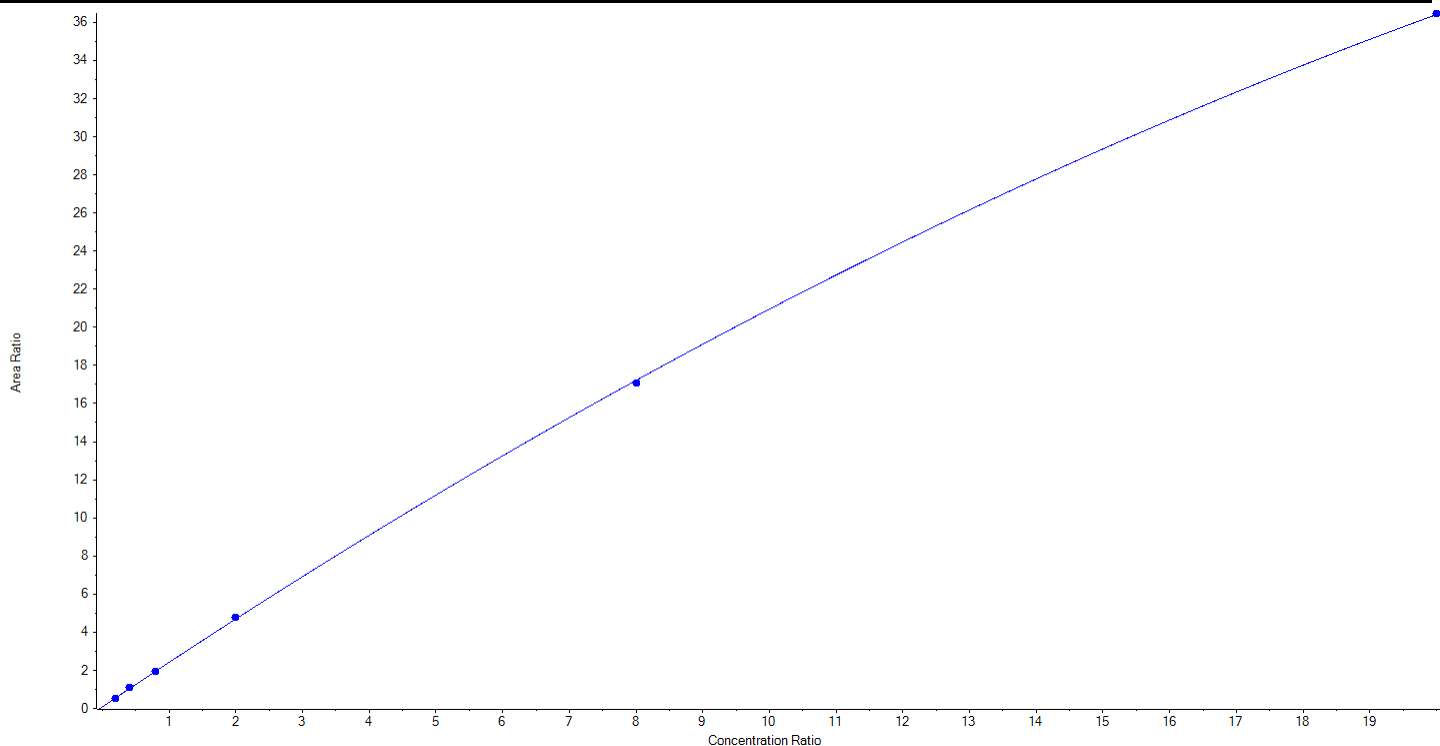
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Analyte Name	HFPO-DA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	285.0 / 169.0	Result Table	20-1321
Internal Standard	13C3-HFPO-DA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = -0.02703 x^2 + 2.35641 x + 0.09266$ ($r = 0.99984$) (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	230.82	92.3
3	LD75	L2	True	500.00	542.31	108.5
4	LD76	L3	True	1000.00	977.28	97.7
5	LD77	L4	True	2500.00	2558.11	102.3
6	LD78	L5	True	10000.00	9896.77	99.0
7	LD79	L6	True	25000.00	25052.63	100.2





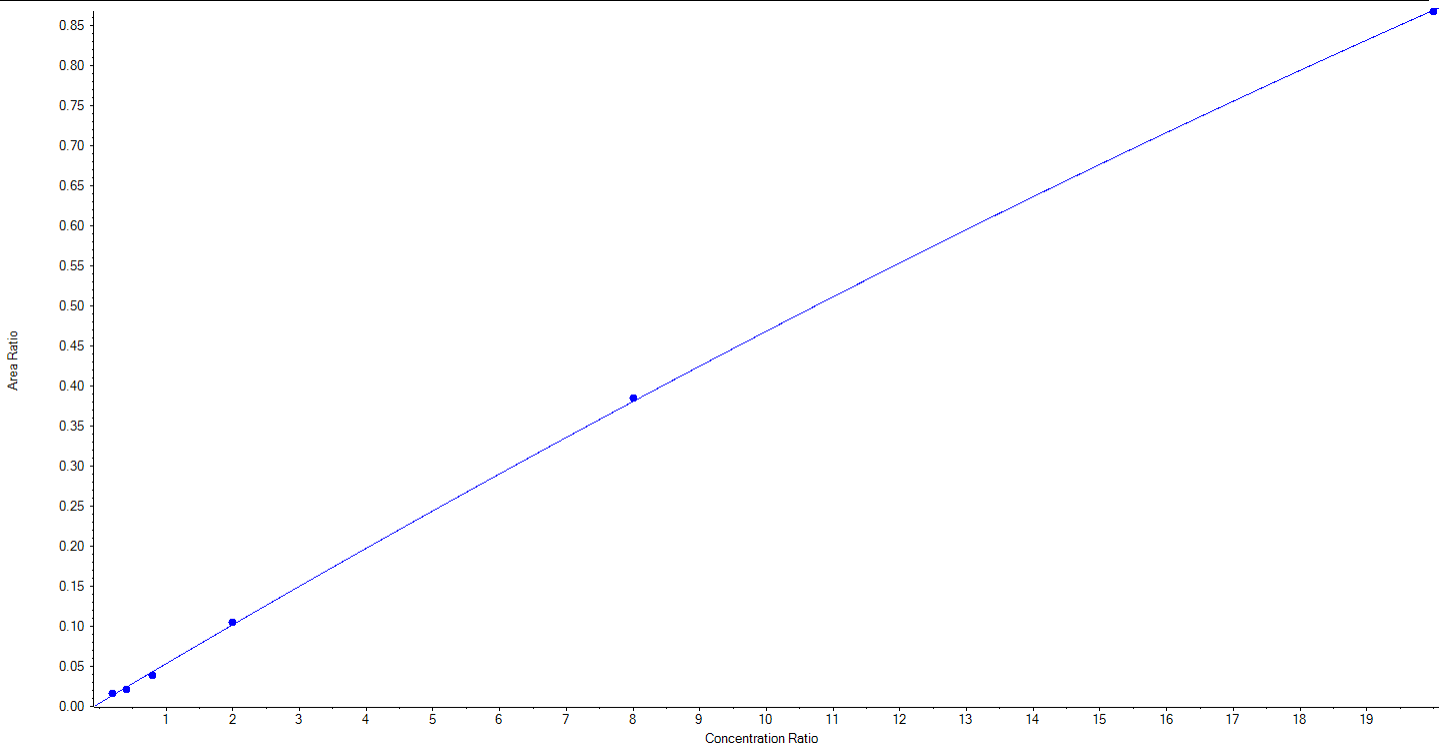
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Analyte Name	HFPO-DA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	285.0 / 118.8	Result Table	20-1321
Internal Standard	13C3-HFPO-DA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = -3.18662e-4 x^2 + 0.04962 x + 0.00409$ ($r = 0.99921$) (weighting: $1/x$) $r^2: 0.9984$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	307.12	122.9
3	LD75	L2	True	500.00	427.69	85.5
4	LD76	L3	True	1000.00	871.42	87.1
5	LD77	L4	True	2500.00	2591.64	103.7
6	LD78	L5	True	10000.00	10104.20	101.0
7	LD79	L6	True	25000.00	24945.74	99.8





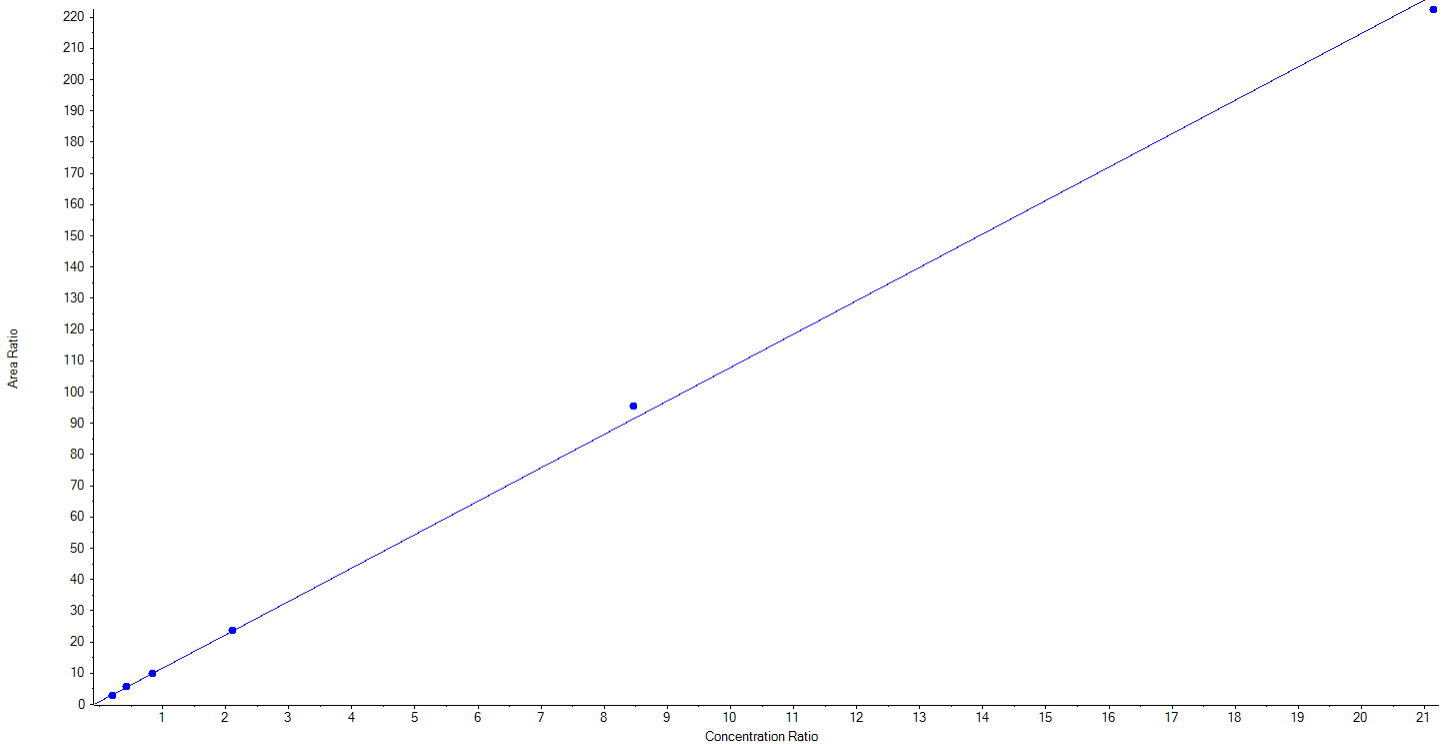
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Analyte Name	ADONA_1	Data File	AE_11112020_5-369.wiff
MRM Transition	377.0 / 251.0	Result Table	20-1321
Internal Standard	13C3-PFHxS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 10.69360x + 0.91783$ ($r = 0.99941$) (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	218.26	87.3
3	LD75	L2	True	500.00	548.78	109.8
4	LD76	L3	True	1000.00	990.15	99.0
5	LD77	L4	True	2500.00	2532.58	101.3
6	LD78	L5	True	10000.00	10463.56	104.6
7	LD79	L6	True	25000.00	24496.68	98.0





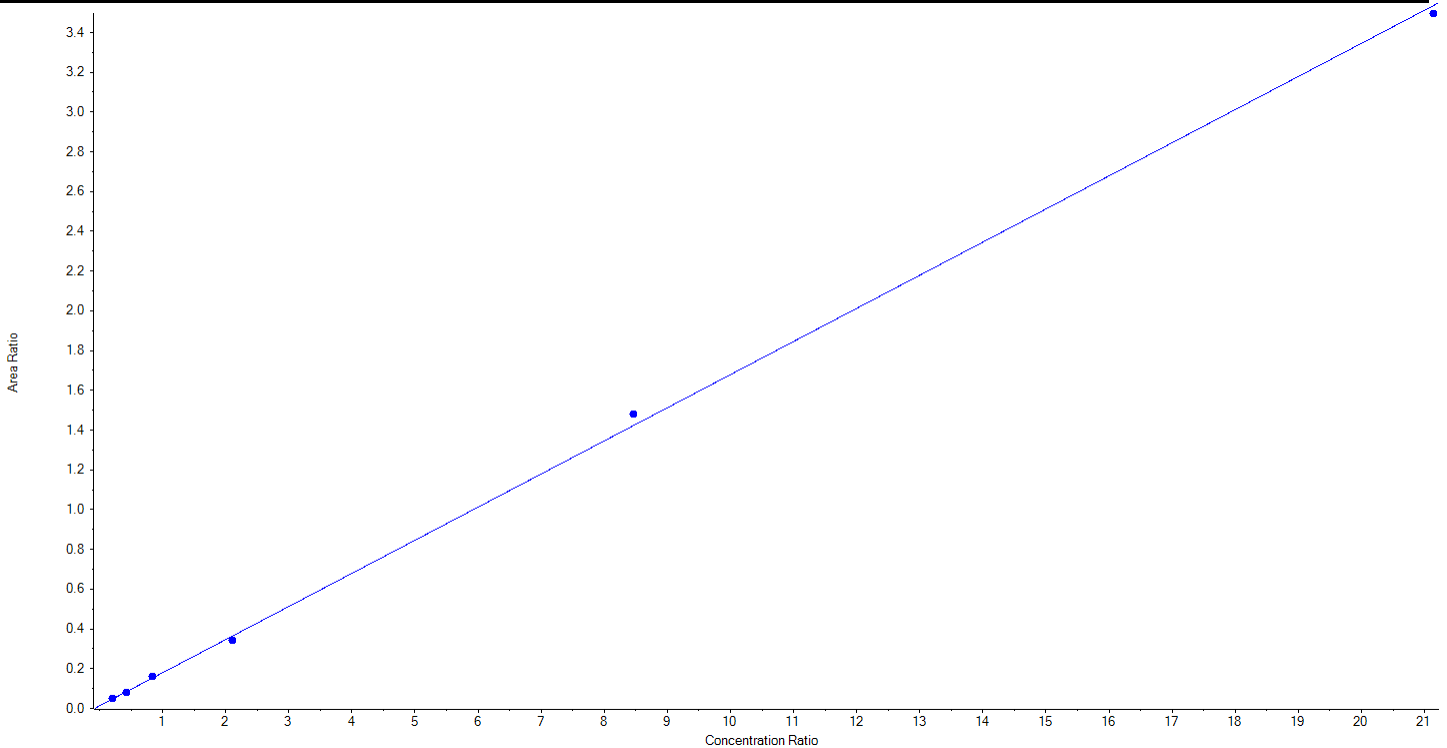
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Analyte Name	ADONA_2	Data File	AE_11112020_5-369.wiff
MRM Transition	377.0 / 85.0	Result Table	20-1321
Internal Standard	13C3-PFHxS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.16661x + 0.01302$ ($r = 0.99950$) (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	248.98	99.6
3	LD75	L2	True	500.00	491.84	98.4
4	LD76	L3	True	1000.00	1058.21	105.8
5	LD77	L4	True	2500.00	2333.15	93.3
6	LD78	L5	True	10000.00	10403.91	104.0
7	LD79	L6	True	25000.00	24713.91	98.9





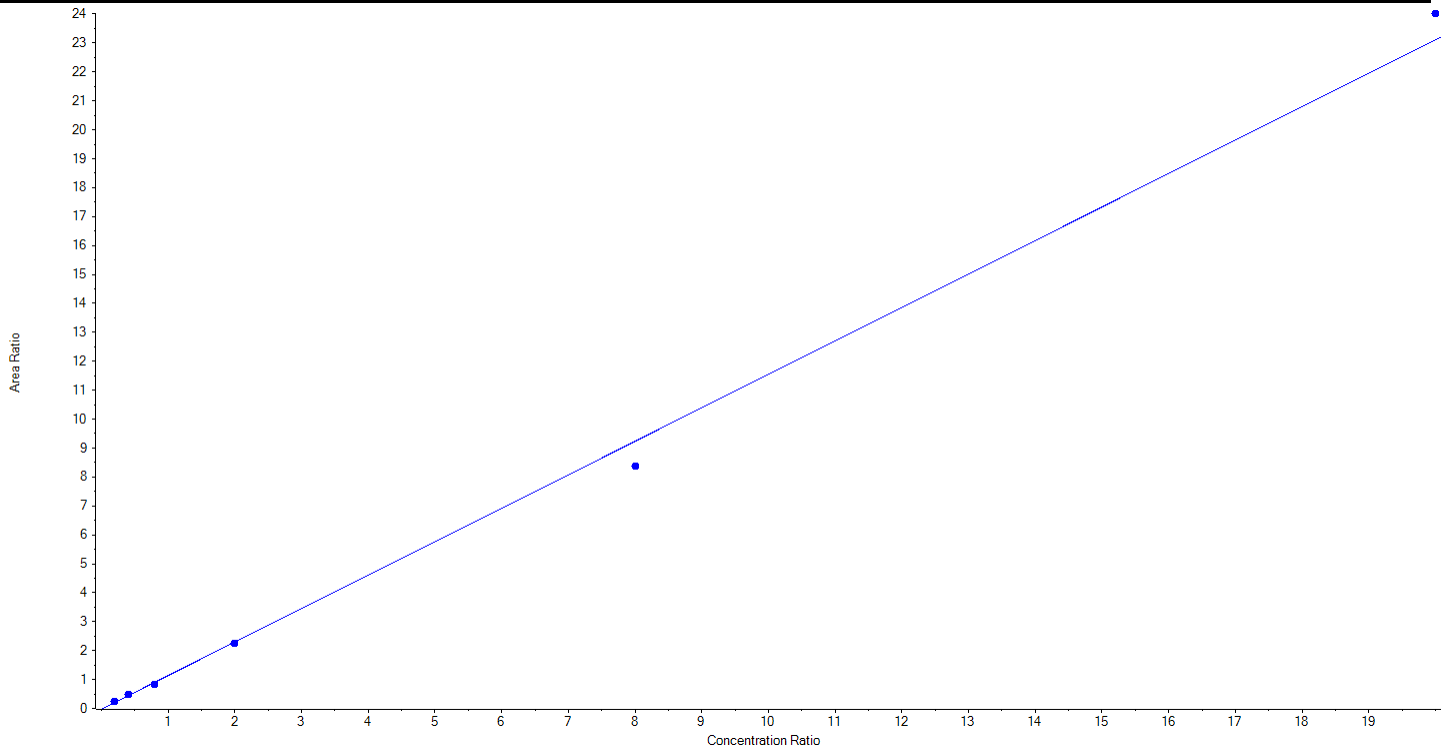
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Analyte Name	9CI-PF3ONS_1	Data File	AE_11112020_5-369.wiff
MRM Transition	531.0 / 351.0	Result Table	20-1321
Internal Standard	13C2-PFDoA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.15664x + -0.01896$ ($r = 0.99811$) (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	270.31	108.1
3	LD75	L2	True	500.00	530.01	106.0
4	LD76	L3	True	1000.00	927.16	92.7
5	LD77	L4	True	2500.00	2459.64	98.4
6	LD78	L5	True	10000.00	9086.93	90.9
7	LD79	L6	True	25000.00	25975.95	103.9





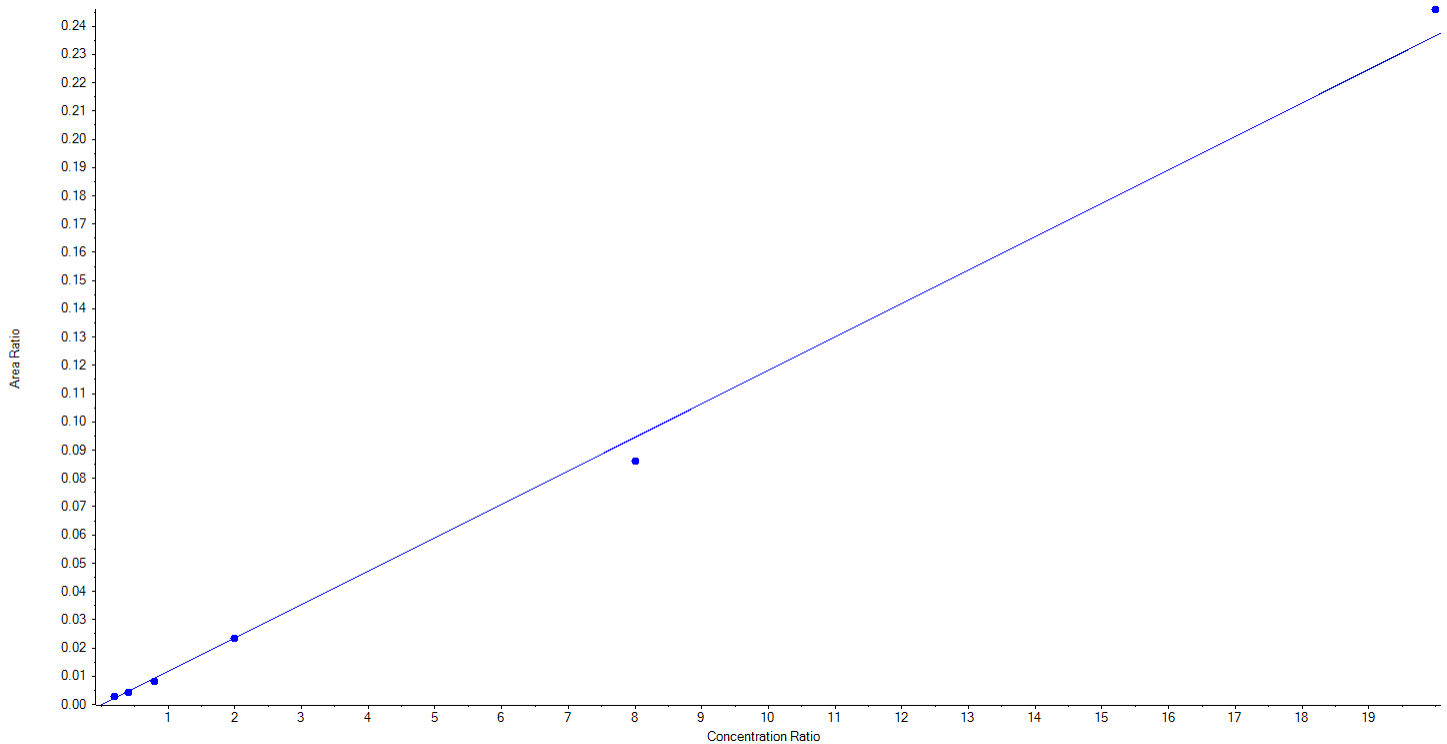
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Analyte Name	9CI-PF3ONS_2	Data File	AE_11112020_5-369.wiff
MRM Transition	531.0 / 83.0	Result Table	20-1321
Internal Standard	13C2-PFDoA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.01183x + -1.25326e-4$ ($r = 0.99788$) (weighting: $1/x$) $r^2: 0.9958$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	309.62	123.9
3	LD75	L2	True	500.00	466.31	93.3
4	LD76	L3	True	1000.00	885.08	88.5
5	LD77	L4	True	2500.00	2480.83	99.2
6	LD78	L5	True	10000.00	9119.35	91.2
7	LD79	L6	True	25000.00	25988.81	104.0





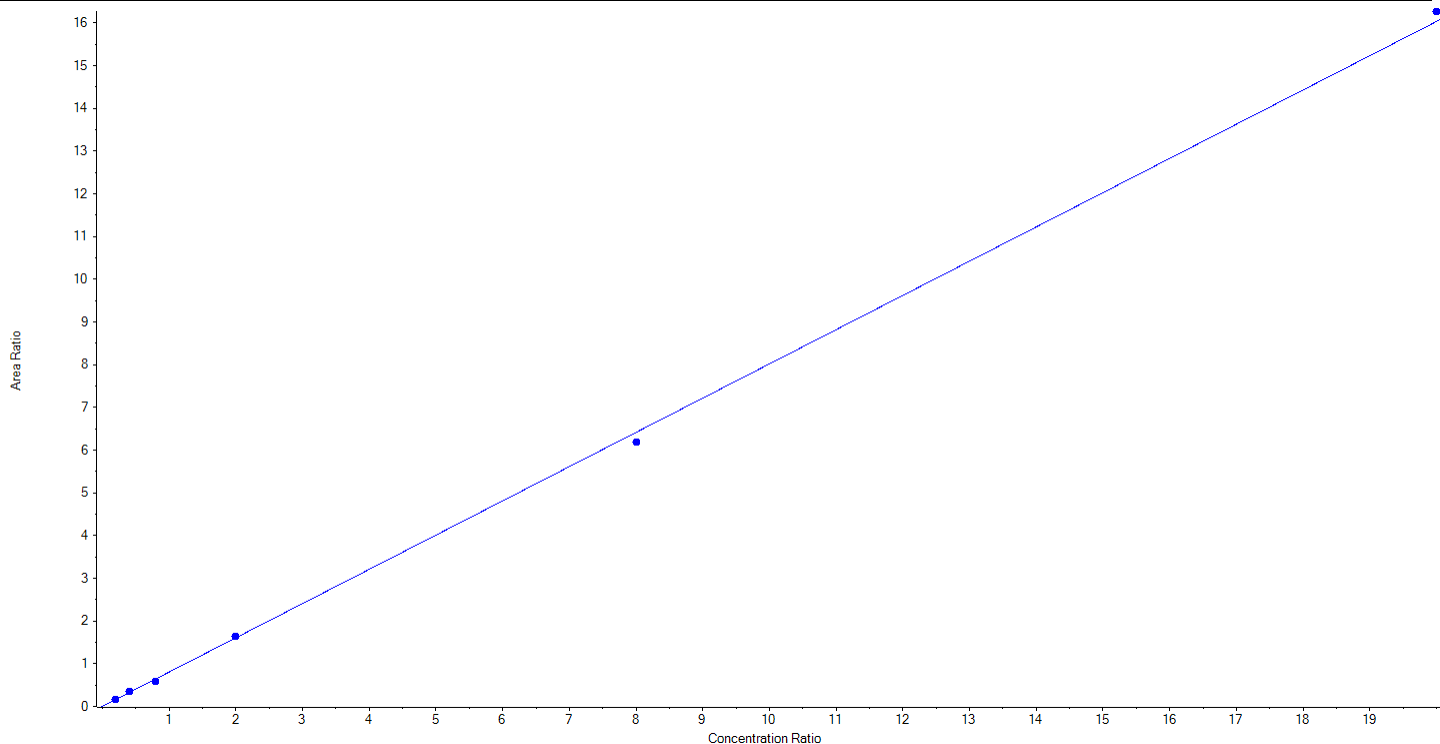
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Analyte Name	11Cl-pf3OUdS_1	Data File	AE_11112020_5-369.wiff
MRM Transition	631.0 / 451.0	Result Table	20-1321
Internal Standard	13C2-PFDoA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.80152x + 0.00489$ ($r = 0.99950$) (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	250.98	100.4
3	LD75	L2	True	500.00	552.86	110.6
4	LD76	L3	True	1000.00	896.03	89.6
5	LD77	L4	True	2500.00	2536.94	101.5
6	LD78	L5	True	10000.00	9650.45	96.5
7	LD79	L6	True	25000.00	25362.74	101.5





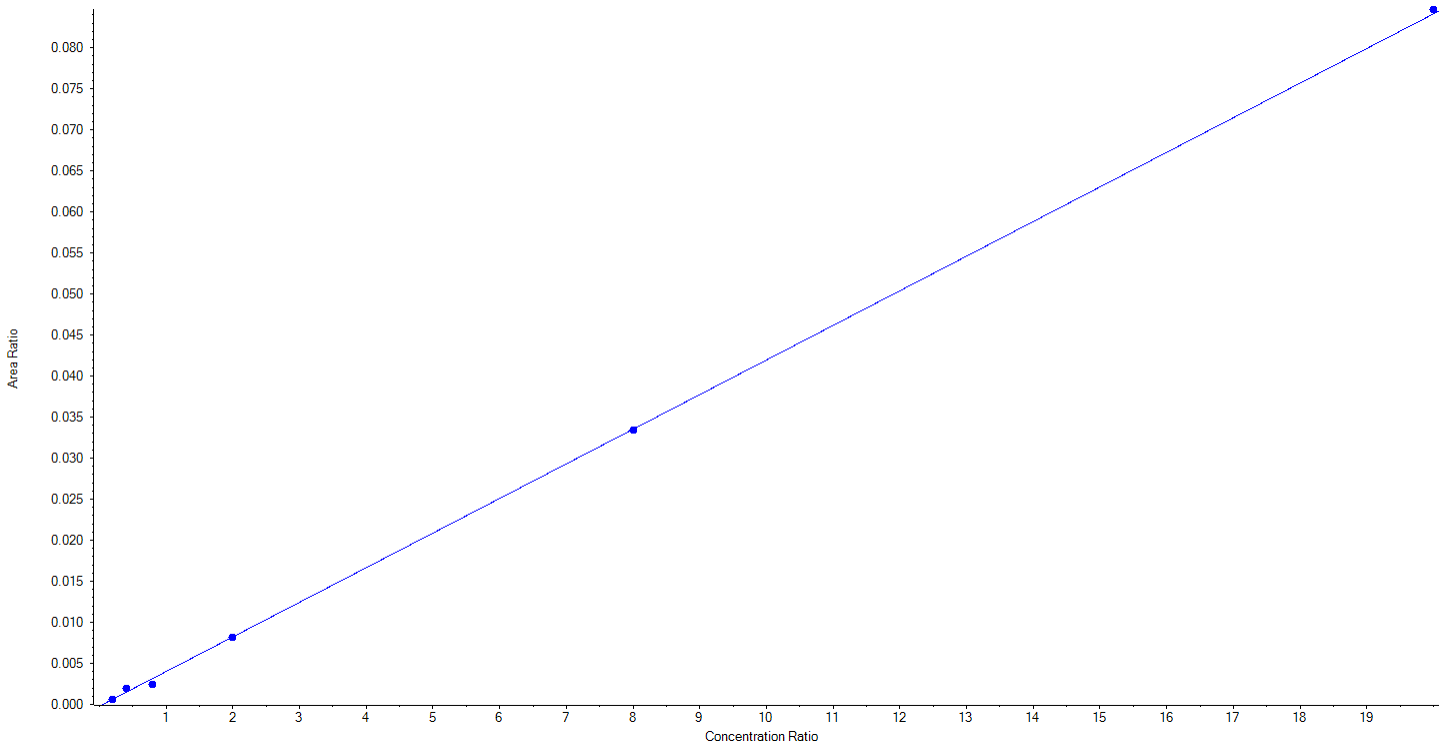
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Analyte Name	11Cl-pf3OUdS_2	Data File	AE_11112020_5-369.wiff
MRM Transition	631.0 / 83.0	Result Table	20-1321
Internal Standard	13C2-PFDoA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.00422 x + -1.99597e-4$ ($r = 0.99878$) (weighting: $1/x$) $r^2: 0.9976$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LD74	L1	True	250.00	236.46	94.6
3	LD75	L2	True	500.00	637.11	127.4
4	LD76	L3	True	1000.00	788.59	78.9
5	LD77	L4	True	2500.00	2473.19	98.9
6	LD78	L5	True	10000.00	9957.95	99.6
7	LD79	L6	True	25000.00	25156.69	100.6





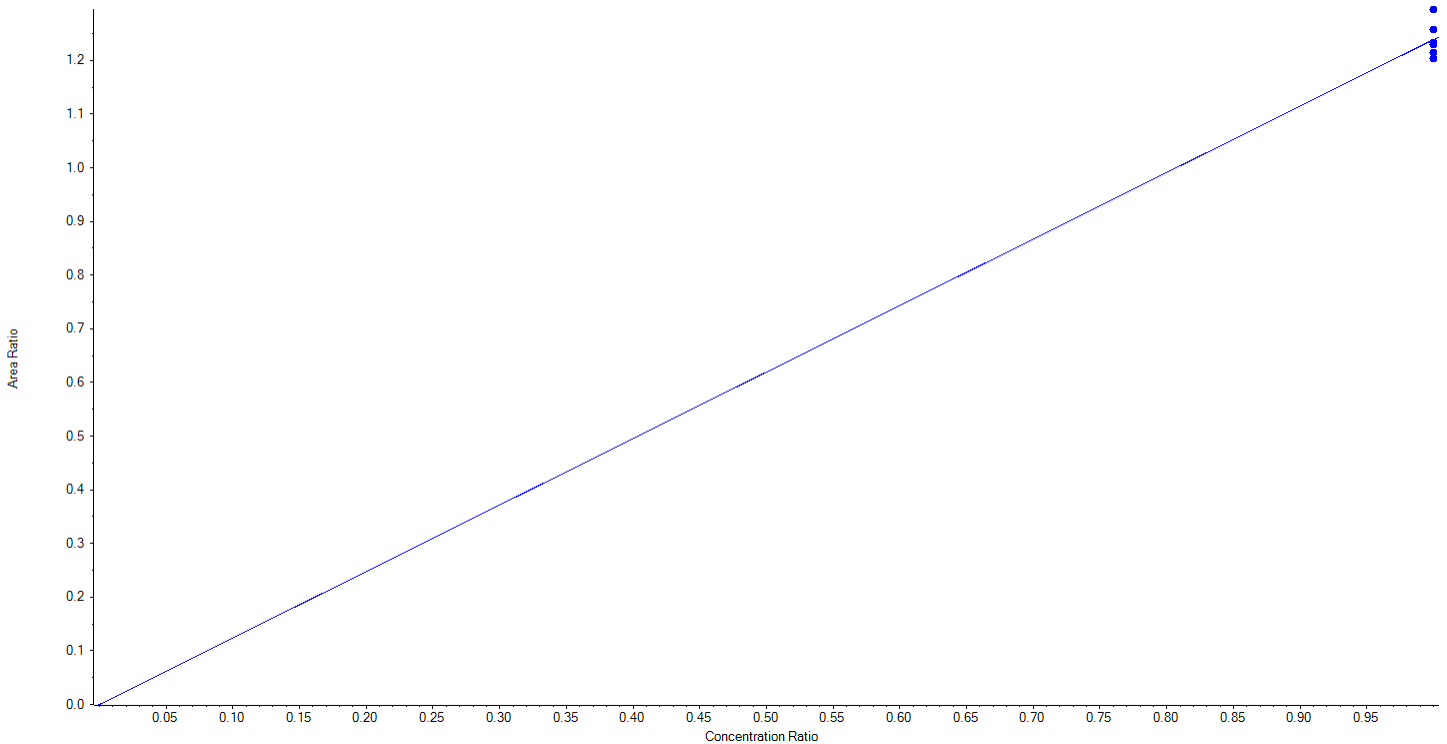
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Analyte Name	13C2-PFDoA	Data File	AE_11112020_5-369.wiff
MRM Transition	615.0 / 570.0	Result Table	20-1321_SIS
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.23876 x$ (std. dev. = 0.03281) (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	1268.62	101.5
3	LD75	L2	True	1250.00	1240.06	99.2
4	LD76	L3	True	1250.00	1243.90	99.5
5	LD77	L4	True	1250.00	1225.89	98.1
6	LD78	L5	True	1250.00	1306.50	104.5
7	LD79	L6	True	1250.00	1215.02	97.2





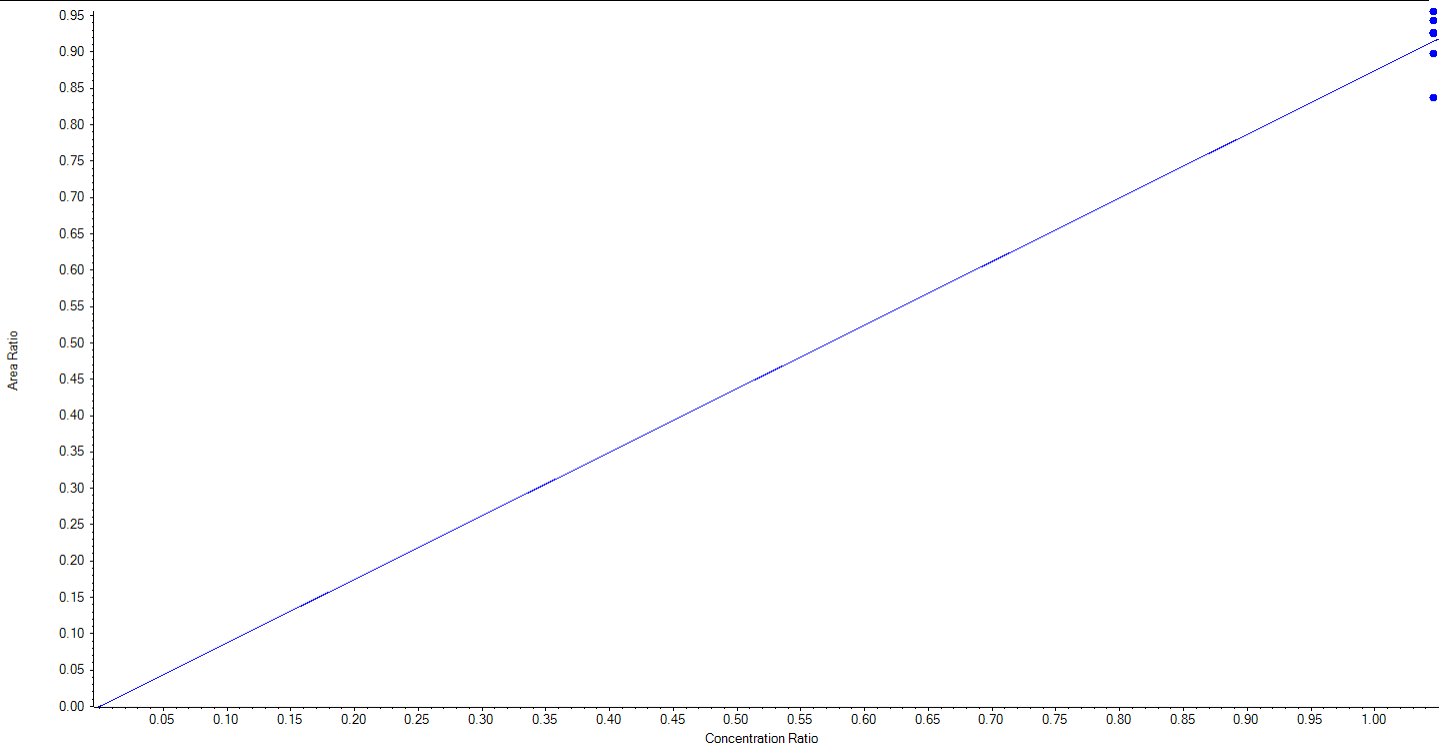
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Analyte Name	d3-MeFOSAA	Data File	AE_11112020_5-369.wiff
MRM Transition	573.0 / 419.0	Result Table	20-1321_SIS
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.87417 x$ (std. dev. = 0.04055) (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	1264.21	101.1
3	LD75	L2	True	1250.00	1290.20	103.2
4	LD76	L3	True	1250.00	1267.23	101.4
5	LD77	L4	True	1250.00	1226.80	98.1
6	LD78	L5	True	1250.00	1145.21	91.6
7	LD79	L6	True	1250.00	1306.35	104.5





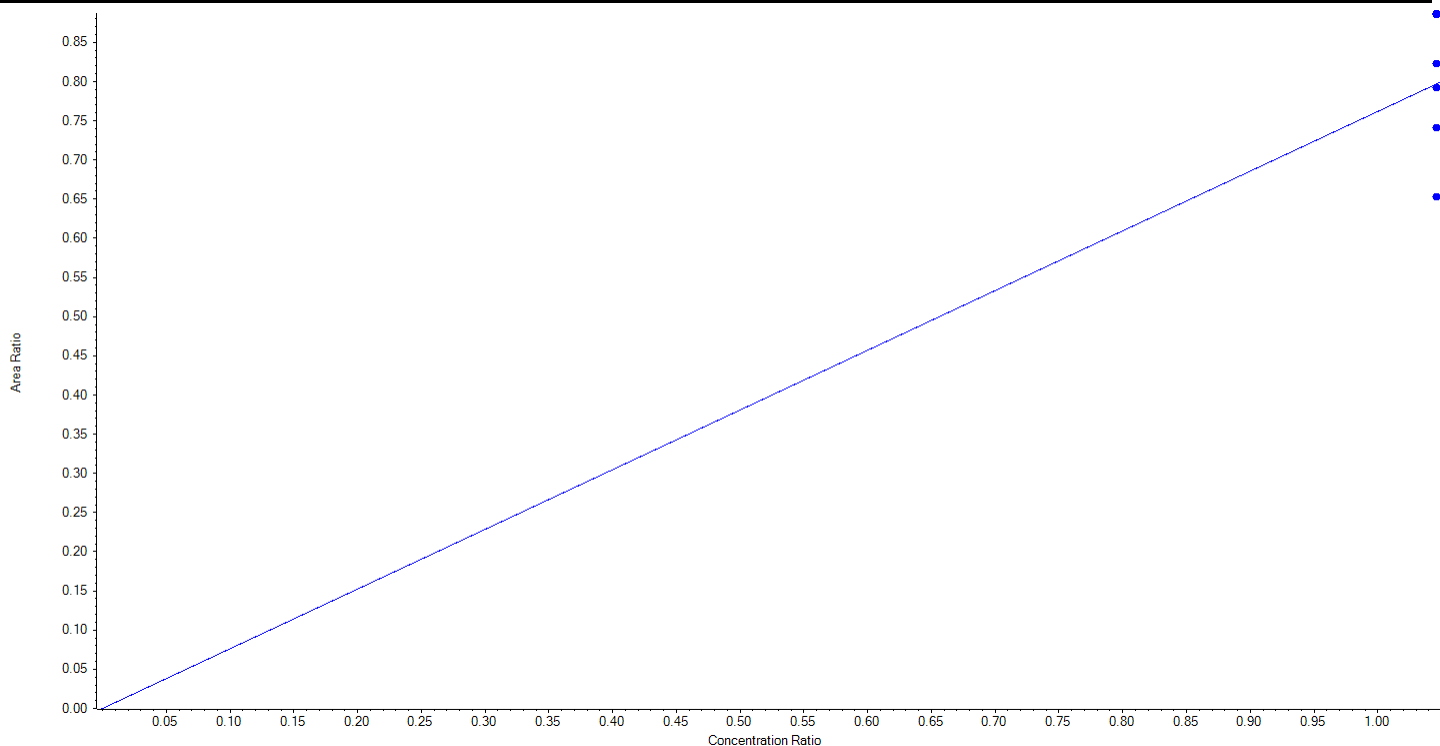
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Analyte Name	d5-EtFOSAA	Data File	AE_11112020_5-369.wiff
MRM Transition	589.0 / 419.0	Result Table	20-1321_SIS
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.76185x$ (std. dev. = 0.08603) (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	1389.43	111.2
3	LD75	L2	True	1250.00	1390.98	111.3
4	LD76	L3	True	1250.00	1289.84	103.2
5	LD77	L4	True	1250.00	1243.13	99.5
6	LD78	L5	True	1250.00	1162.46	93.0
7	LD79	L6	True	1250.00	1024.17	81.9





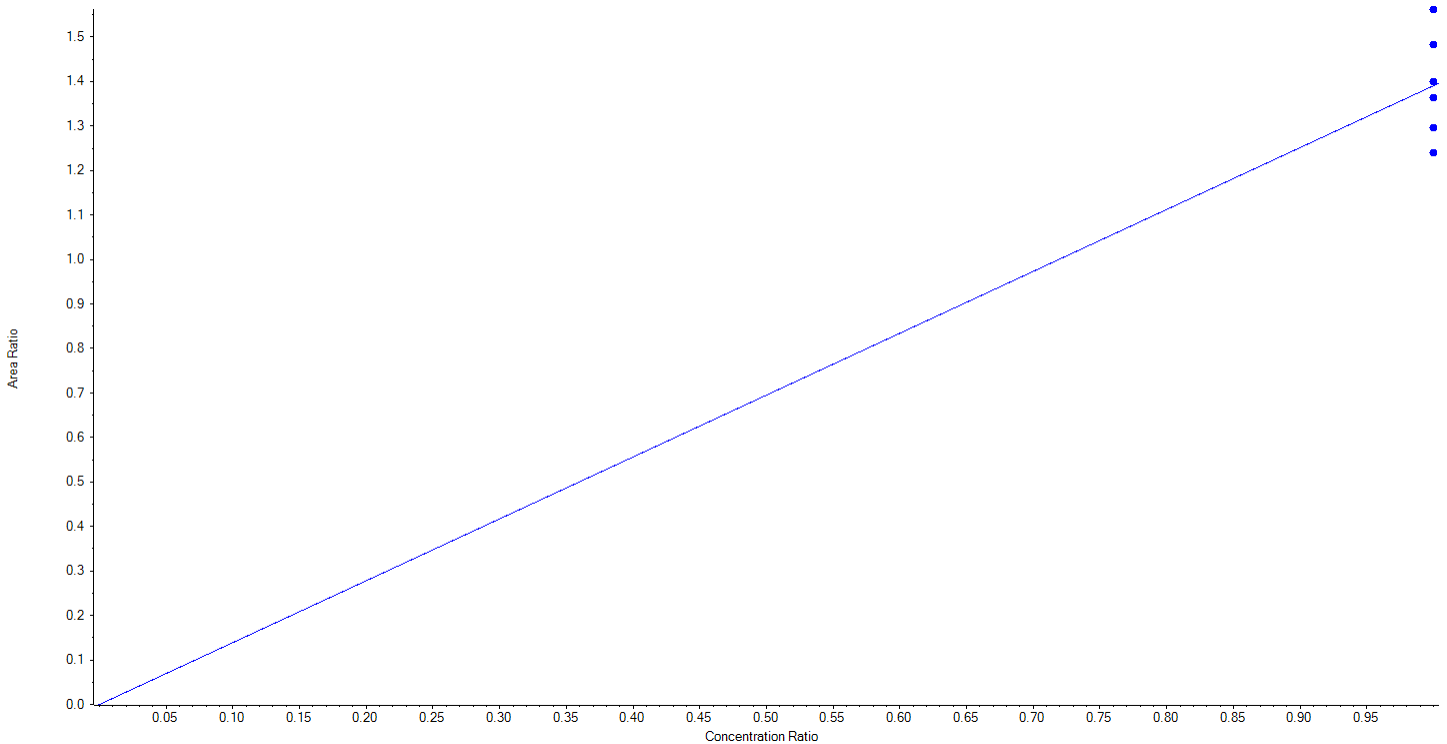
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Analyte Name	13C5-PFHxA	Data File	AE_11112020_5-369.wiff
MRM Transition	318.0 / 273.0	Result Table	20-1321_SIS
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.39044 x$ (std. dev. = 0.11899) (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	1334.08	106.7
3	LD75	L2	True	1250.00	1225.04	98.0
4	LD76	L3	True	1250.00	1403.93	112.3
5	LD77	L4	True	1250.00	1258.11	100.7
6	LD78	L5	True	1250.00	1164.93	93.2
7	LD79	L6	True	1250.00	1113.90	89.1





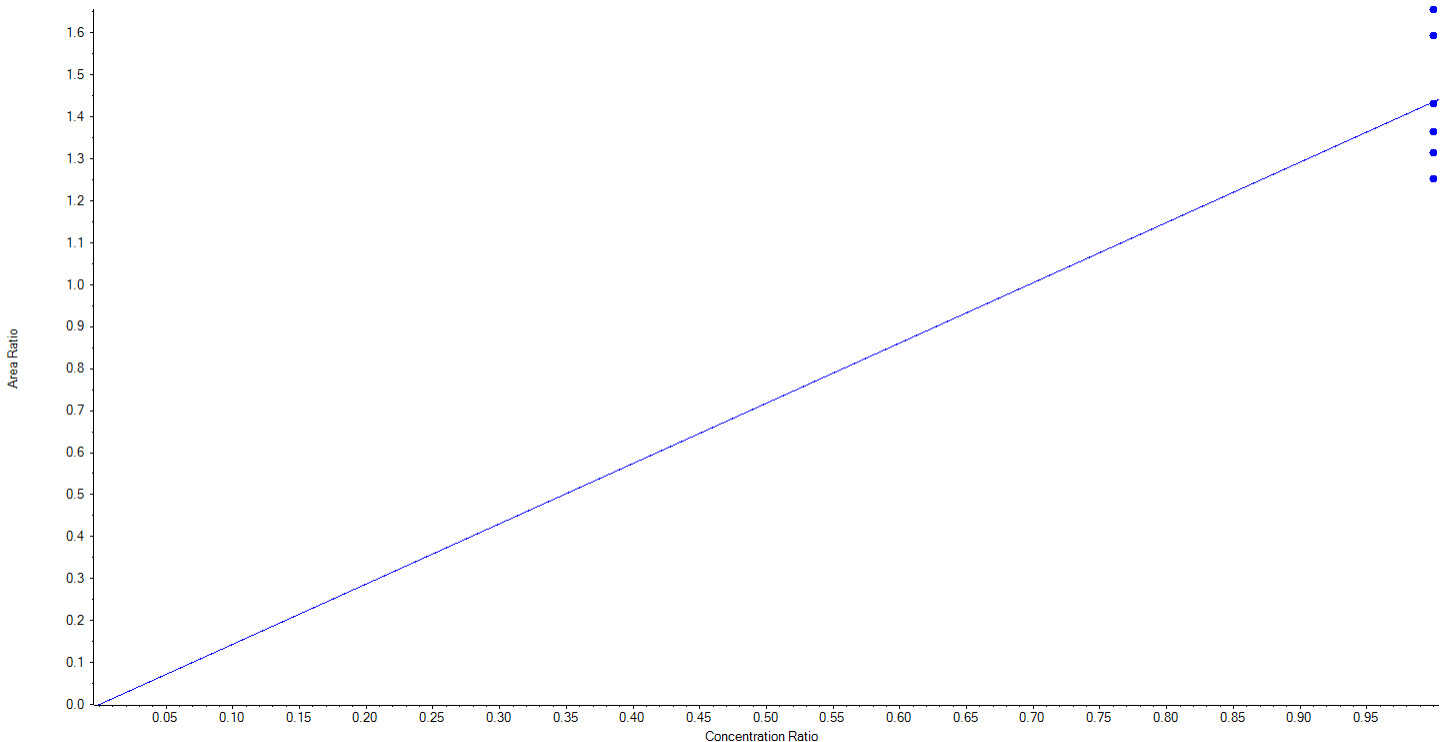
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Analyte Name	13C4-PFHpA	Data File	AE_11112020_5-369.wiff
MRM Transition	367.0 / 322.0	Result Table	20-1321_SIS
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.43573 x$ (std. dev. = 0.15898) (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	1387.83	111.0
3	LD75	L2	True	1250.00	1246.03	99.7
4	LD76	L3	True	1250.00	1441.69	115.3
5	LD77	L4	True	1250.00	1188.29	95.1
6	LD78	L5	True	1250.00	1144.75	91.6
7	LD79	L6	True	1250.00	1091.42	87.3





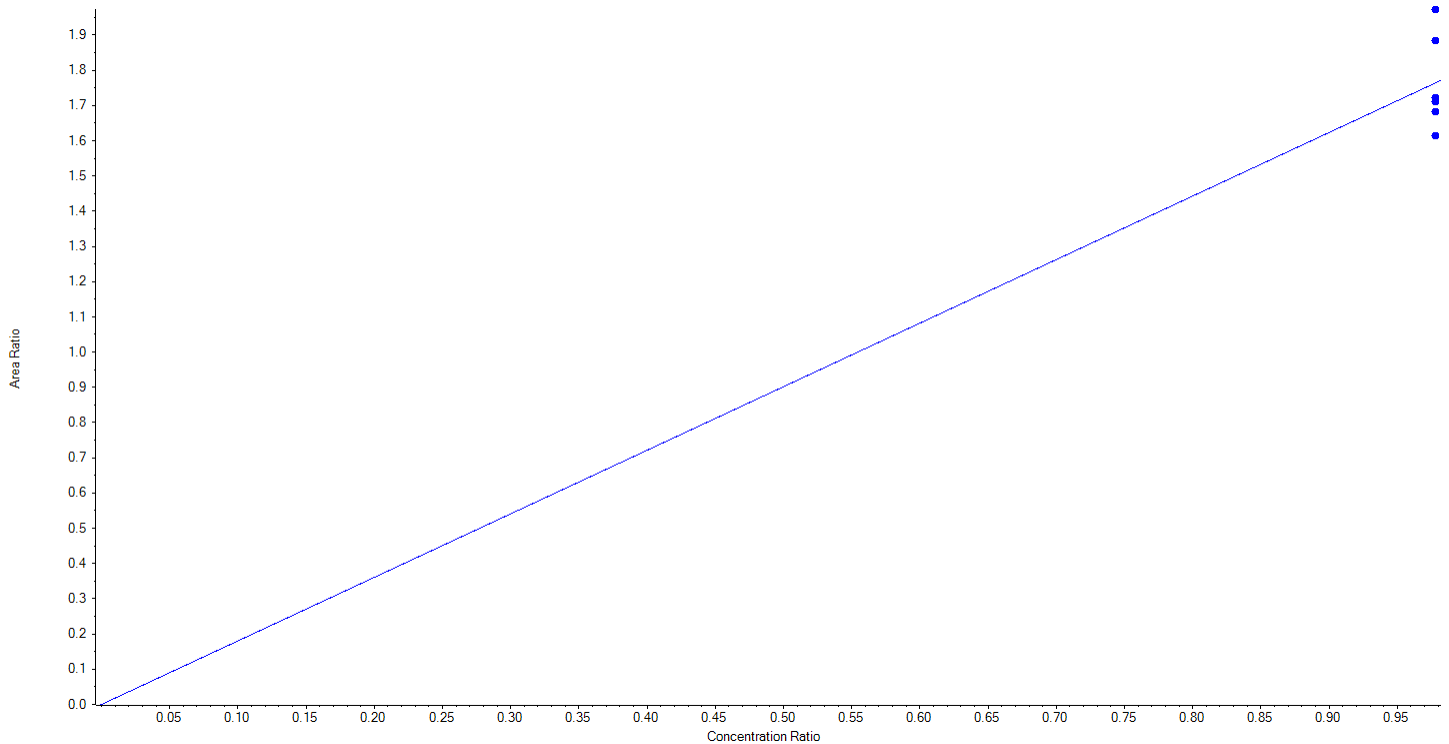
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Analyte Name	13C8-PFOA	Data File	AE_11112020_5-369.wiff
MRM Transition	421.0 / 376.0	Result Table	20-1321_SIS
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.80348 x$ (std. dev. = 0.13801) (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	1304.79	106.7
3	LD75	L2	True	1222.50	1193.46	97.6
4	LD76	L3	True	1222.50	1366.83	111.8
5	LD77	L4	True	1222.50	1185.50	97.0
6	LD78	L5	True	1222.50	1119.32	91.6
7	LD79	L6	True	1222.50	1165.09	95.3





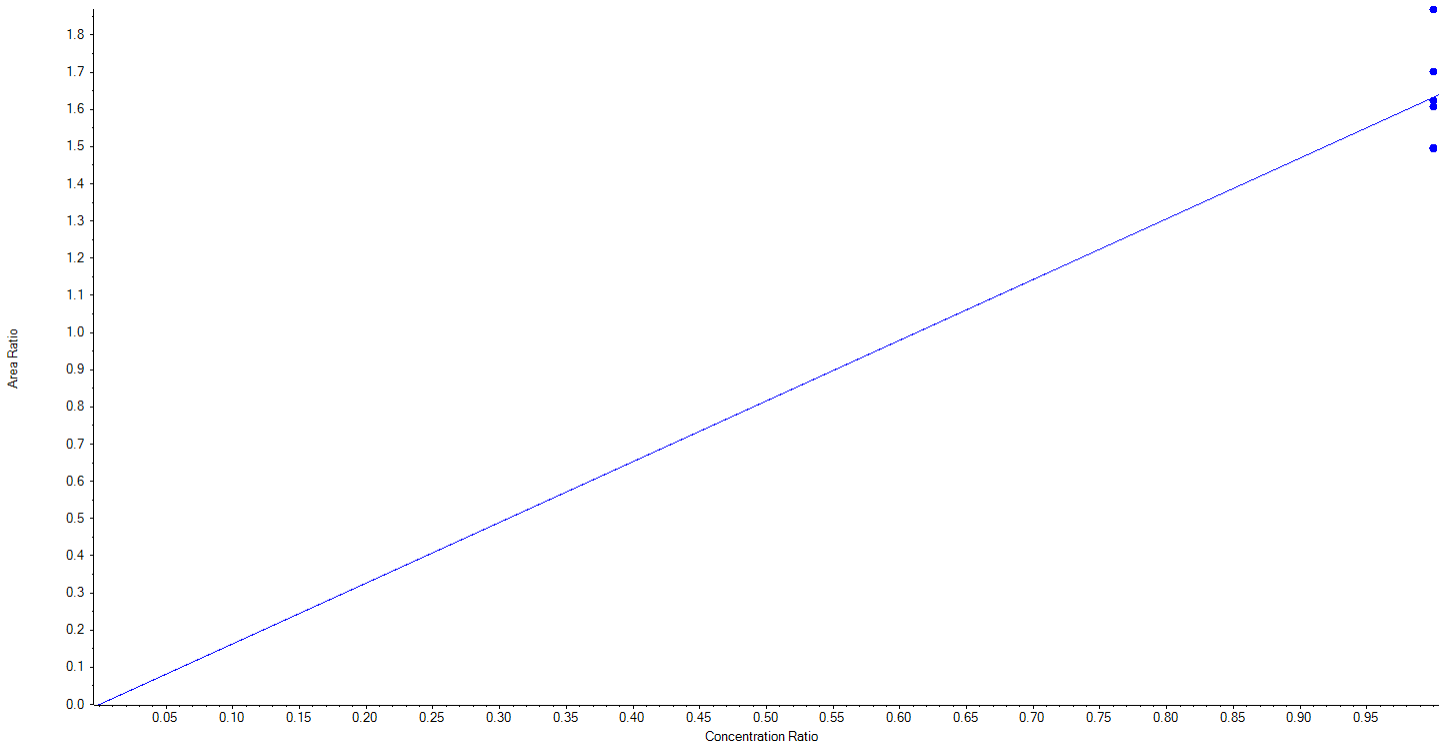
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Analyte Name	13C9-PFNA	Data File	AE_11112020_5-369.wiff
MRM Transition	472.0 / 427.0	Result Table	20-1321_SIS
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.63235 x$ (std. dev. = 0.14058) (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	1303.98	104.3
3	LD75	L2	True	1250.00	1243.11	99.5
4	LD76	L3	True	1250.00	1430.81	114.5
5	LD77	L4	True	1250.00	1231.61	98.5
6	LD78	L5	True	1250.00	1144.57	91.6
7	LD79	L6	True	1250.00	1145.92	91.7





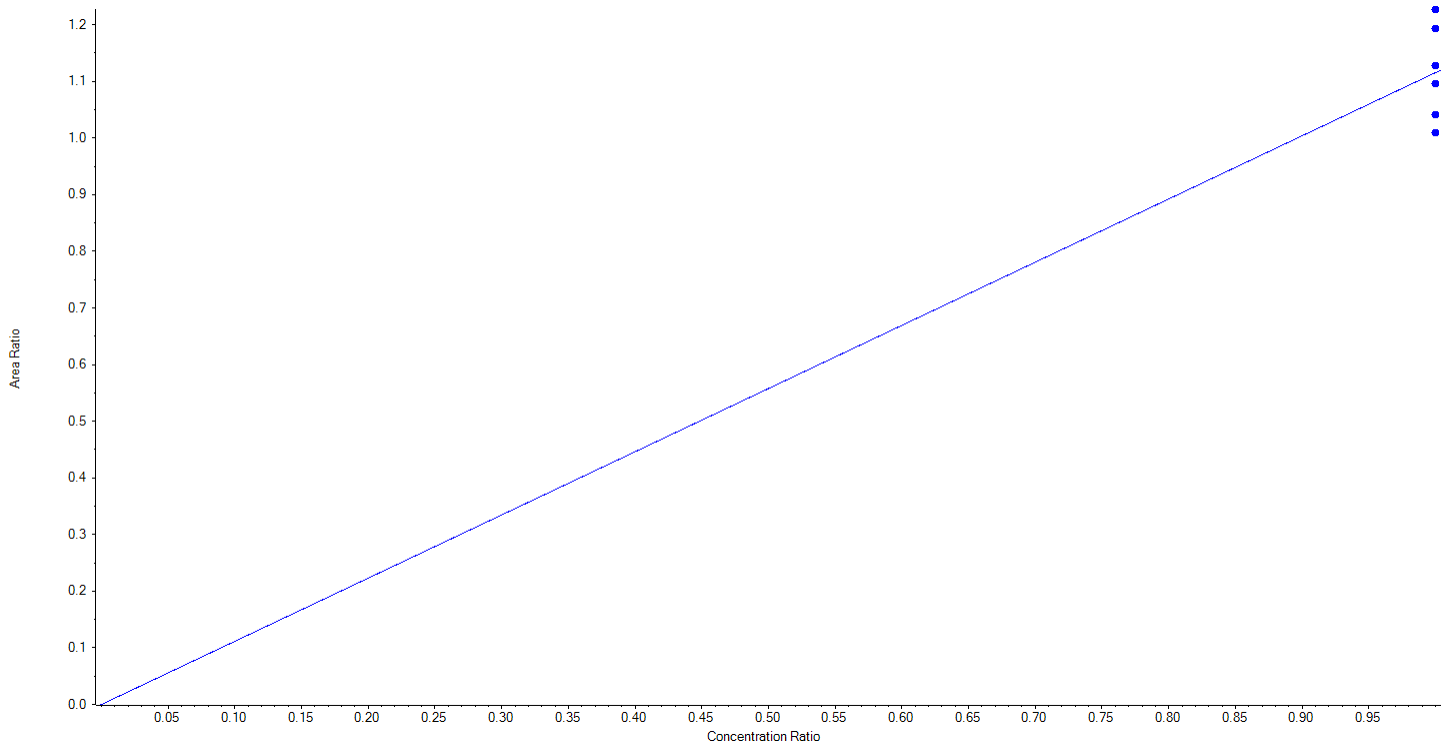
Calibration Summary Report

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Analyte Name	13C6-PFDA	Data File	AE_11112020_5-369.wiff
MRM Transition	519.0 / 474.0	Result Table	20-1321_SIS
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.11539 x$ (std. dev. = 0.08479) (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	1336.66	106.9
3	LD75	L2	True	1250.00	1374.80	110.0
4	LD76	L3	True	1250.00	1227.28	98.2
5	LD77	L4	True	1250.00	1264.62	101.2
6	LD78	L5	True	1250.00	1166.47	93.3
7	LD79	L6	True	1250.00	1130.18	90.4





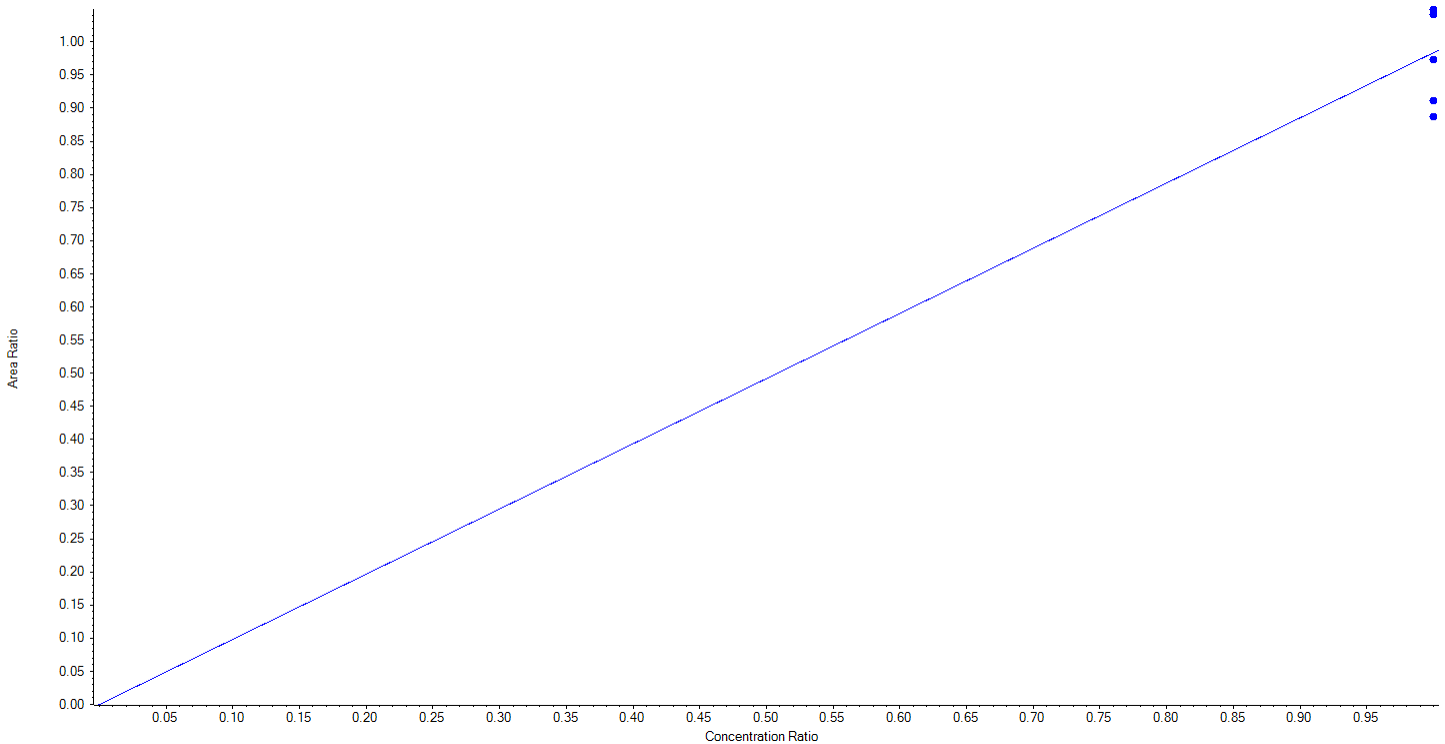
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Analyte Name	13C7-PFUnA	Data File	AE_11112020_5-369.wiff
MRM Transition	570.0 / 525.0	Result Table	20-1321_SIS
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.98369x$ (std. dev. = 0.07132) (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	1322.34	105.8
3	LD75	L2	True	1250.00	1332.71	106.6
4	LD76	L3	True	1250.00	1158.23	92.7
5	LD77	L4	True	1250.00	1322.63	105.8
6	LD78	L5	True	1250.00	1237.08	99.0
7	LD79	L6	True	1250.00	1127.00	90.2





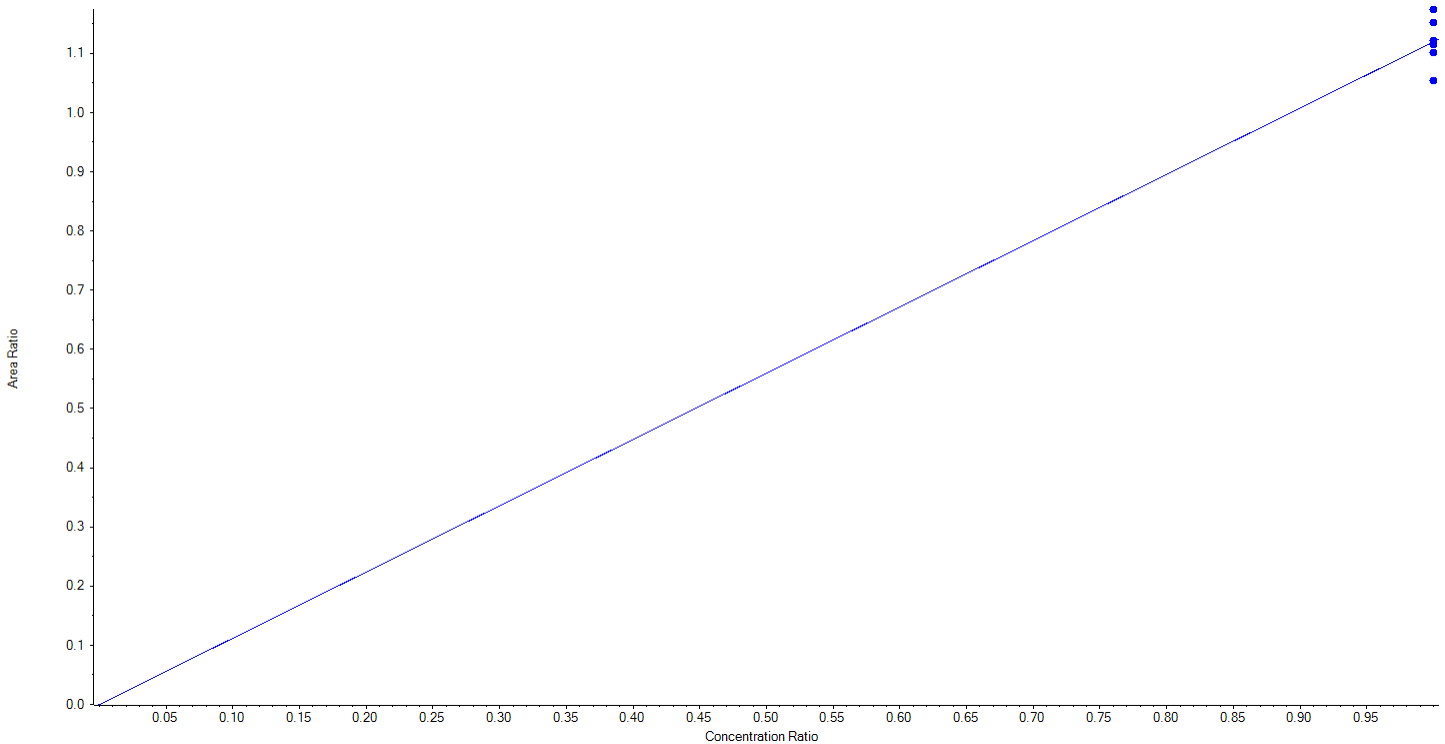
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Analyte Name	13C2-PFTeDA	Data File	AE_11112020_5-369.wiff
MRM Transition	715.0 / 670.0	Result Table	20-1321_SIS
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.11963 x$ (std. dev. = 0.04195) (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	1244.54	99.6
3	LD75	L2	True	1250.00	1251.89	100.2
4	LD76	L3	True	1250.00	1175.85	94.1
5	LD77	L4	True	1250.00	1230.23	98.4
6	LD78	L5	True	1250.00	1286.65	102.9
7	LD79	L6	True	1250.00	1310.85	104.9





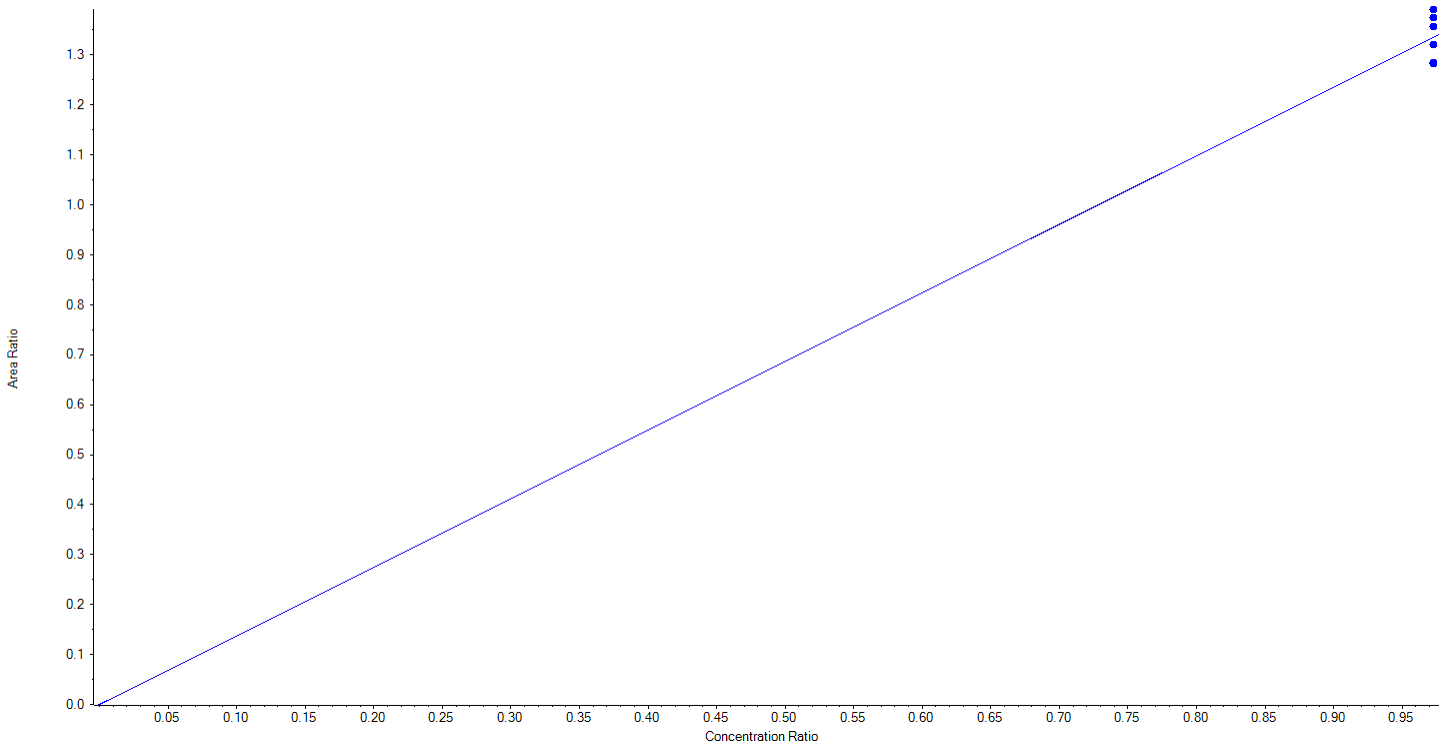
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Analyte Name	13C3-PFBS	Data File	AE_11112020_5-369.wiff
MRM Transition	302.0 / 99.0	Result Table	20-1321_SIS
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.37303 x$ (std. dev. = 0.04758) (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	1150.40	99.0
3	LD75	L2	True	1162.50	1181.75	101.7
4	LD76	L3	True	1162.50	1117.51	96.1
5	LD77	L4	True	1162.50	1117.35	96.1
6	LD78	L5	True	1162.50	1197.29	103.0
7	LD79	L6	True	1162.50	1210.70	104.2





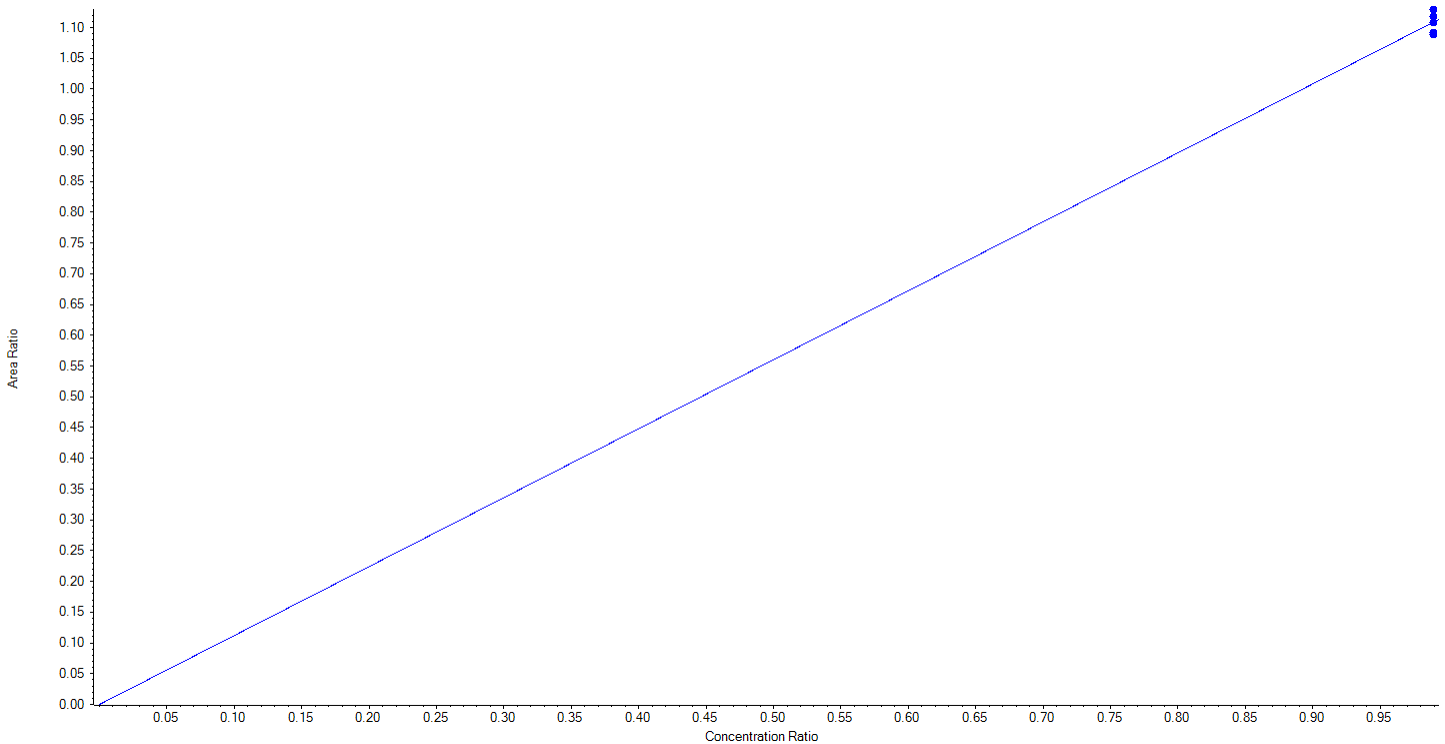
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Analyte Name	13C3-PFHxS	Data File	AE_11112020_5-369.wiff
MRM Transition	402.0 / 99.0	Result Table	20-1321_SIS
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.12057 x$ (std. dev. = 0.01606) (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	1161.59	98.2
3	LD75	L2	True	1182.50	1181.49	99.9
4	LD76	L3	True	1182.50	1163.92	98.4
5	LD77	L4	True	1182.50	1204.39	101.9
6	LD78	L5	True	1182.50	1192.04	100.8
7	LD79	L6	True	1182.50	1191.57	100.8





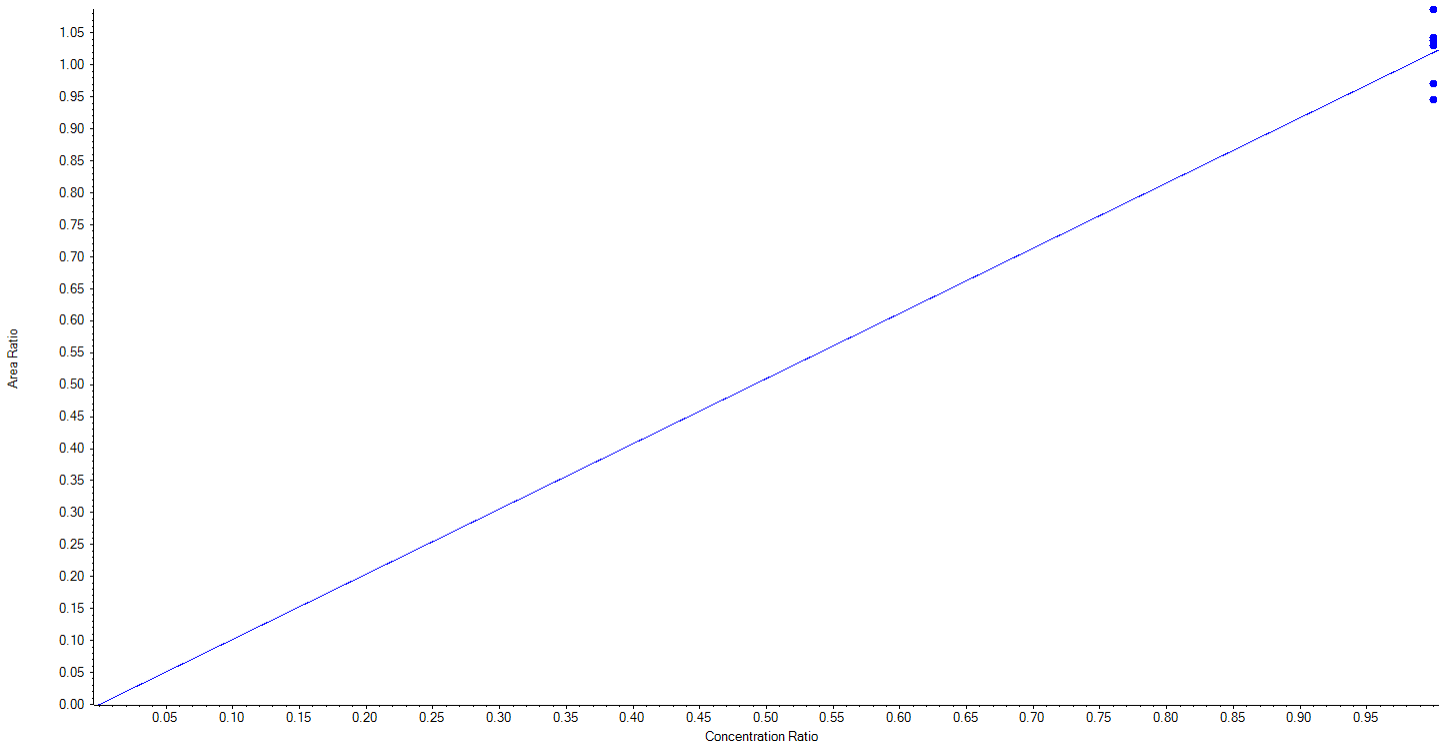
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Analyte Name	13C8-PFOS	Data File	AE_11112020_5-369.wiff
MRM Transition	507.0 / 99.0	Result Table	20-1321_SIS
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.01942x$ (std. dev. = 0.05169) (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	1273.84	106.6
3	LD75	L2	True	1195.00	1217.64	101.9
4	LD76	L3	True	1195.00	1222.91	102.3
5	LD77	L4	True	1195.00	1108.82	92.8
6	LD78	L5	True	1195.00	1208.66	101.1
7	LD79	L6	True	1195.00	1138.14	95.2





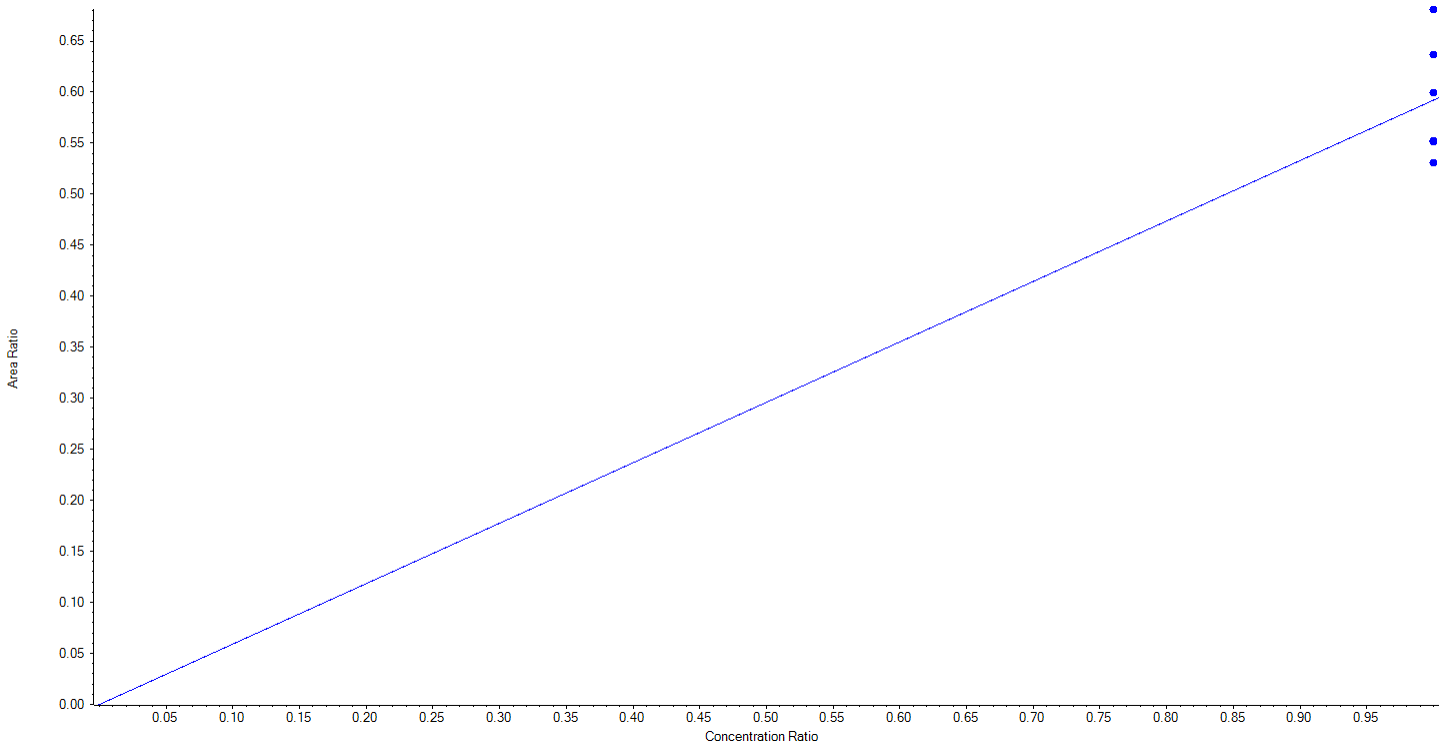
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Analyte Name	13C3-HFPO-DA	Data File	AE_11112020_5-369.wiff
MRM Transition	287.0 / 169.0	Result Table	20-1321_SIS
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.59213 x$ (std. dev. = 0.05810) (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	1164.84	93.2
3	LD75	L2	True	1250.00	1121.20	89.7
4	LD76	L3	True	1250.00	1344.79	107.6
5	LD77	L4	True	1250.00	1166.18	93.3
6	LD78	L5	True	1250.00	1265.57	101.3
7	LD79	L6	True	1250.00	1437.42	115.0





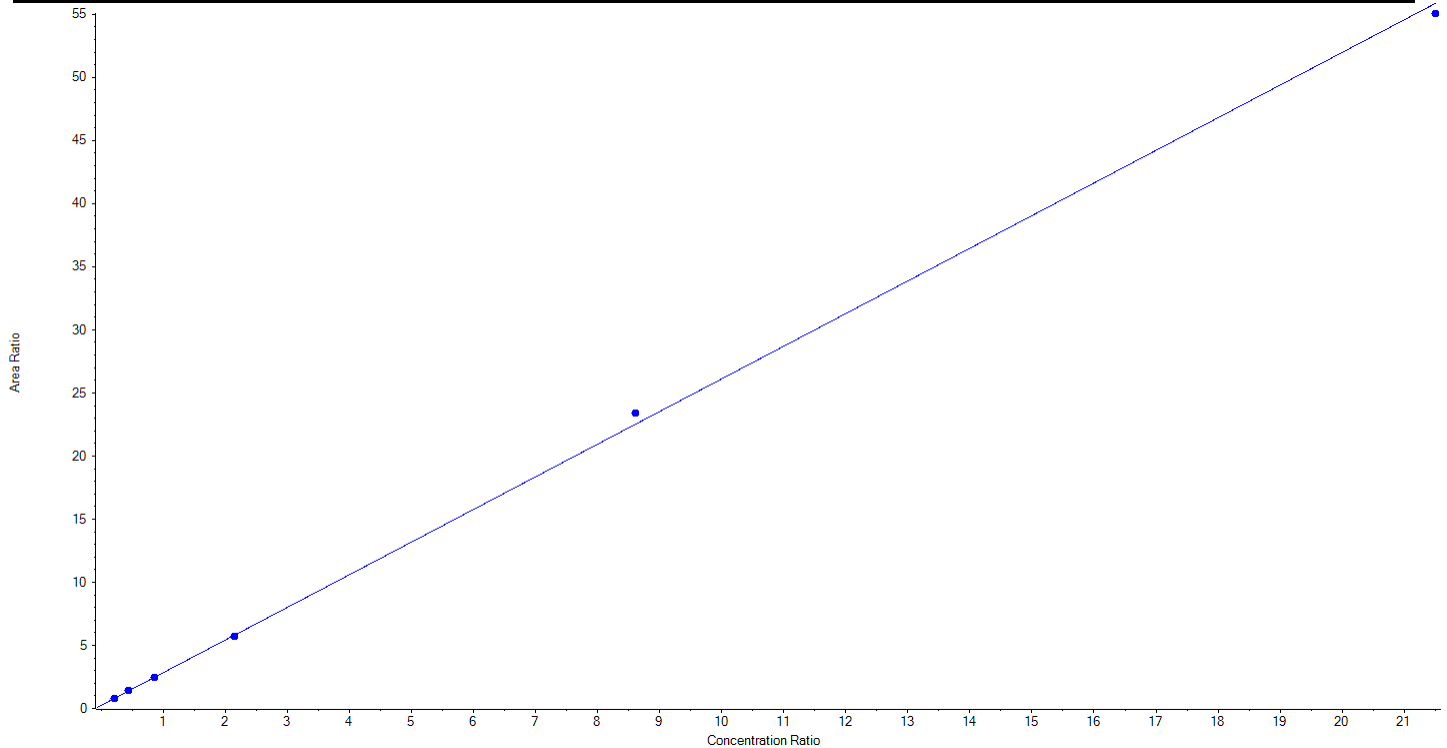
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Analyte Name	PFBS_1	Data File	AE_11122020_5-369.wiff
MRM Transition	298.9 / 80.0	Result Table	20-1321_A
Internal Standard	13C3-PFBS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 2.58573 x + 0.26356$ ($r = 0.99964$) (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	LE52	L1	True	250.00	231.76	92.7
3	LE53	L2	True	500.00	532.53	106.5
4	LE54	L3	True	1000.00	999.67	100.0
5	LE55	L4	True	2500.00	2459.39	98.4
6	LE56	L5	True	10000.00	10389.86	103.9
7	LE57	L6	True	25000.00	24636.78	98.6





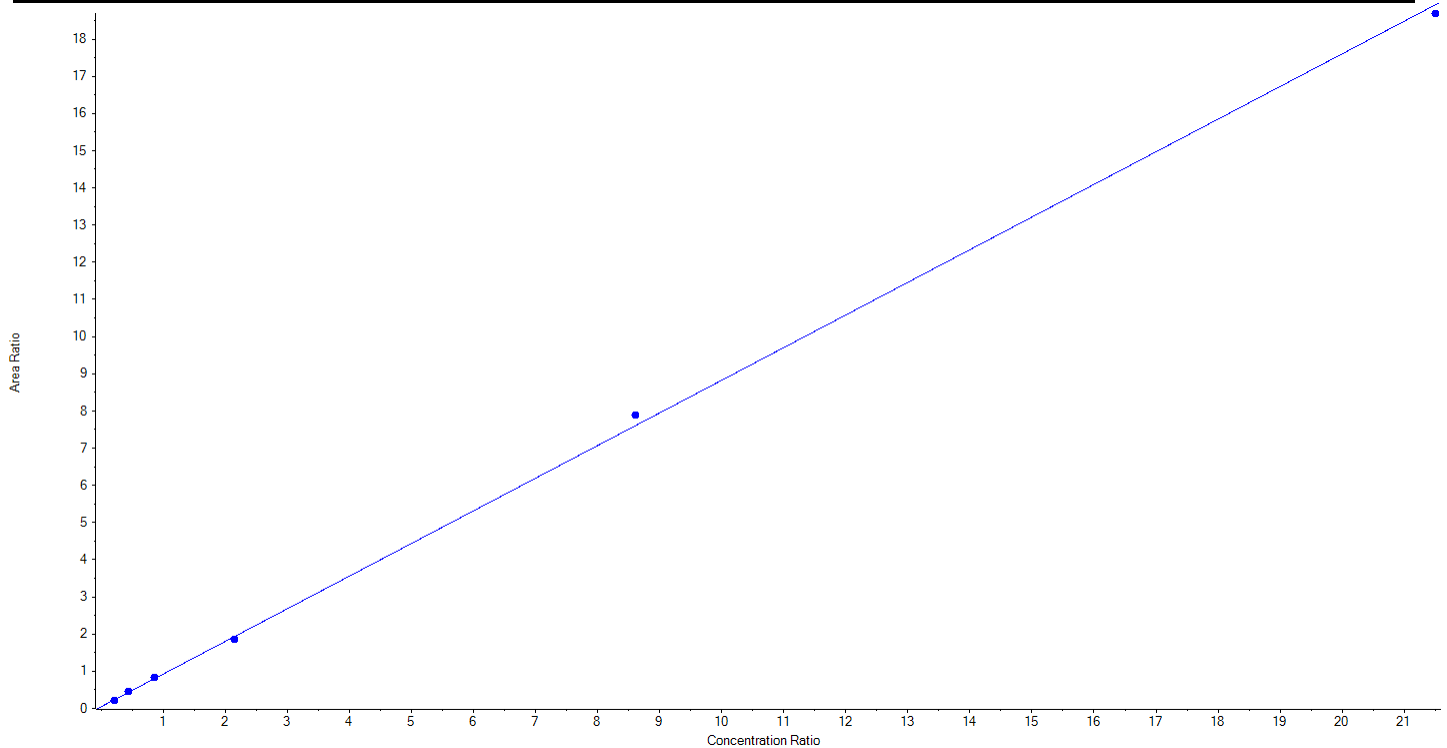
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Analyte Name	PFBS_2	Data File	AE_11122020_5-369.wiff
MRM Transition	298.9 / 99.0	Result Table	20-1321_A
Internal Standard	13C3-PFBS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.87752x + 0.05175$ ($r = 0.99957$) (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	LE52	L1	True	250.00	228.74	91.5
3	LE53	L2	True	500.00	528.94	105.8
4	LE54	L3	True	1000.00	1049.80	105.0
5	LE55	L4	True	2500.00	2381.05	95.2
6	LE56	L5	True	10000.00	10374.48	103.7
7	LE57	L6	True	25000.00	24686.99	98.8





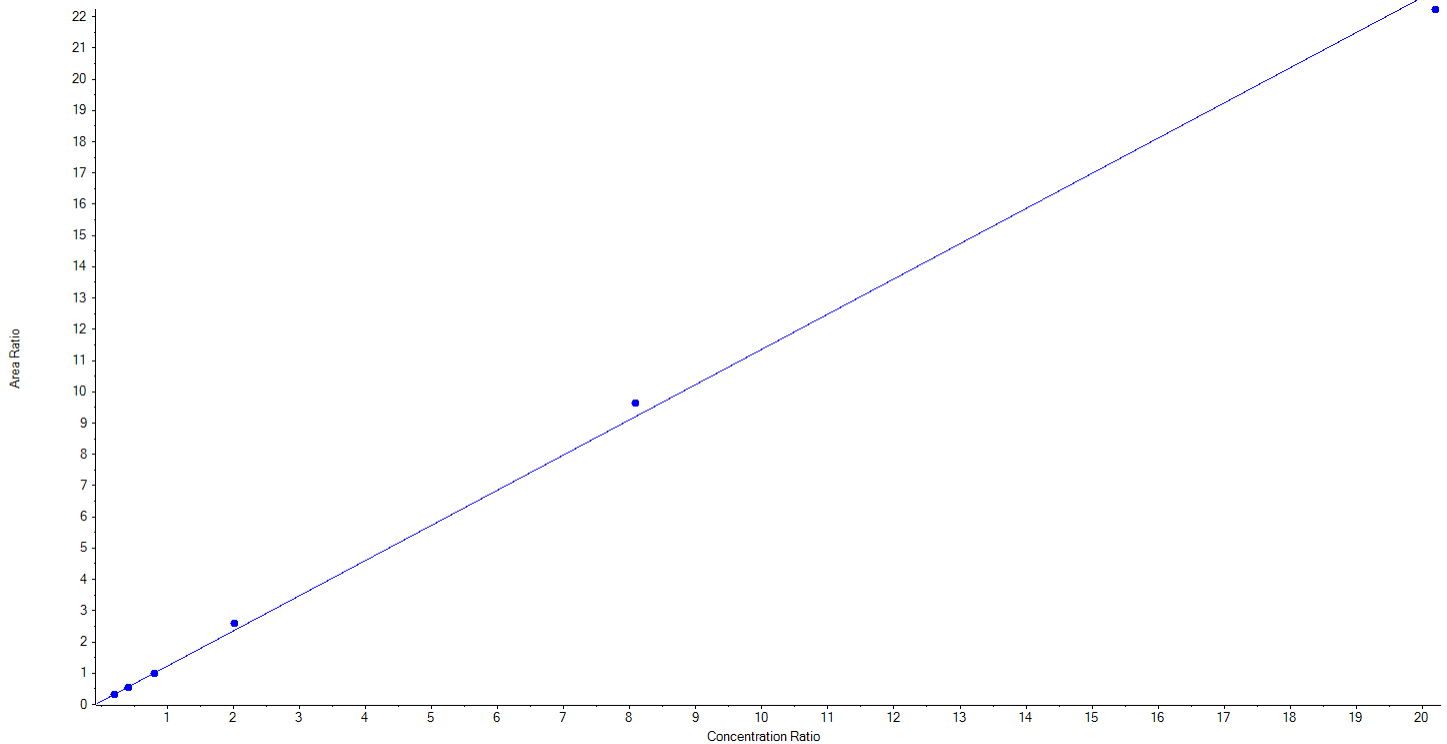
Calibration Summary Report

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Analyte Name	PFHxA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	313.0 / 269.0	Result Table	20-1321_A
Internal Standard	13C5-PFHxA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.12548x + 0.10521$ ($r = 0.99902$) (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	LE52	L1	True	252.50	241.46	95.6
3	LE53	L2	True	505.00	471.67	93.4
4	LE54	L3	True	1010.00	1001.28	99.1
5	LE55	L4	True	2525.00	2769.53	109.7
6	LE56	L5	True	10100.00	10590.12	104.9
7	LE57	L6	True	25250.00	24568.45	97.3





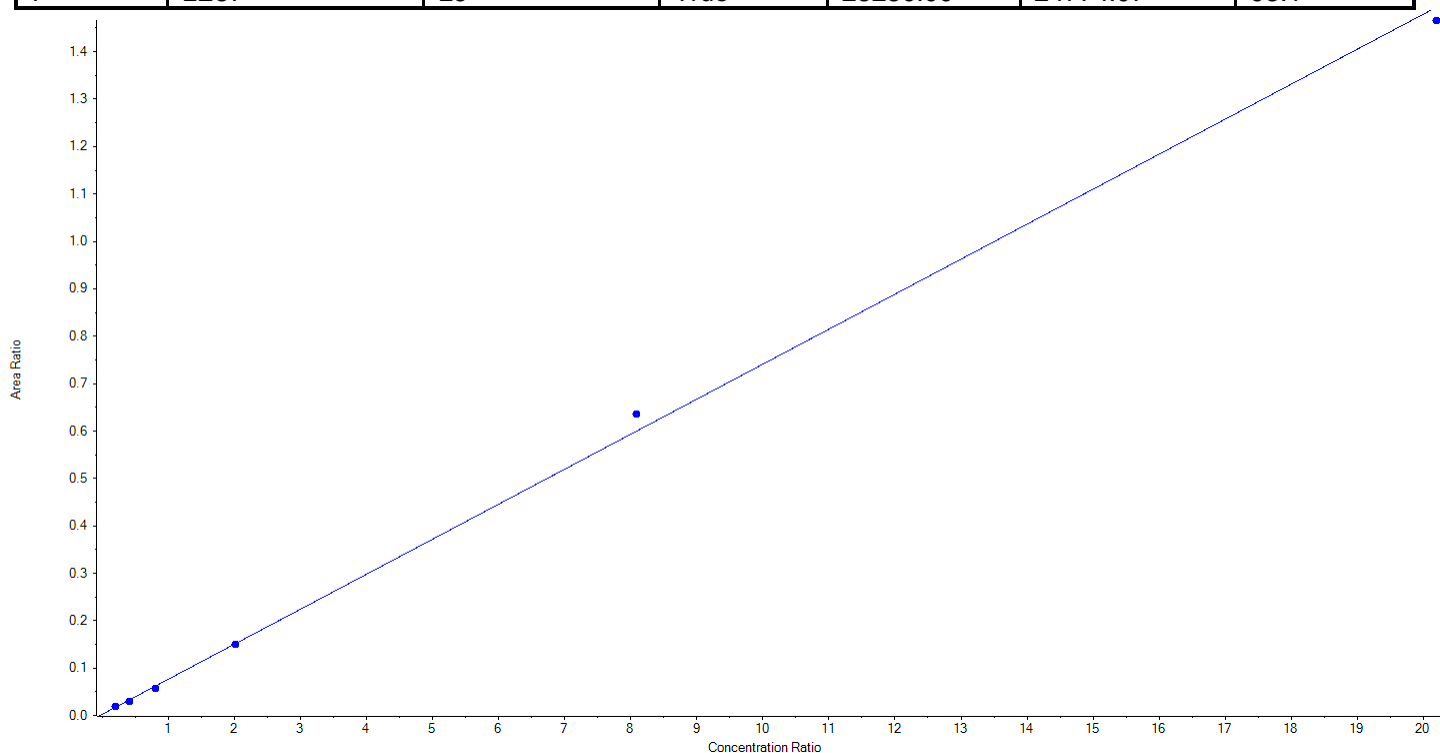
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Analyte Name	PFHxA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	313.0 / 119.0	Result Table	20-1321_A
Internal Standard	13C5-PFHxA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.07381x + 0.00288$ ($r = 0.99905$) (weighting: $1/x$) $r^2: 0.9981$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	252.50	291.00	115.3
3	LE53	L2	True	505.00	466.62	92.4
4	LE54	L3	True	1010.00	899.81	89.1
5	LE55	L4	True	2525.00	2502.89	99.1
6	LE56	L5	True	10100.00	10708.10	106.0
7	LE57	L6	True	25250.00	24774.07	98.1





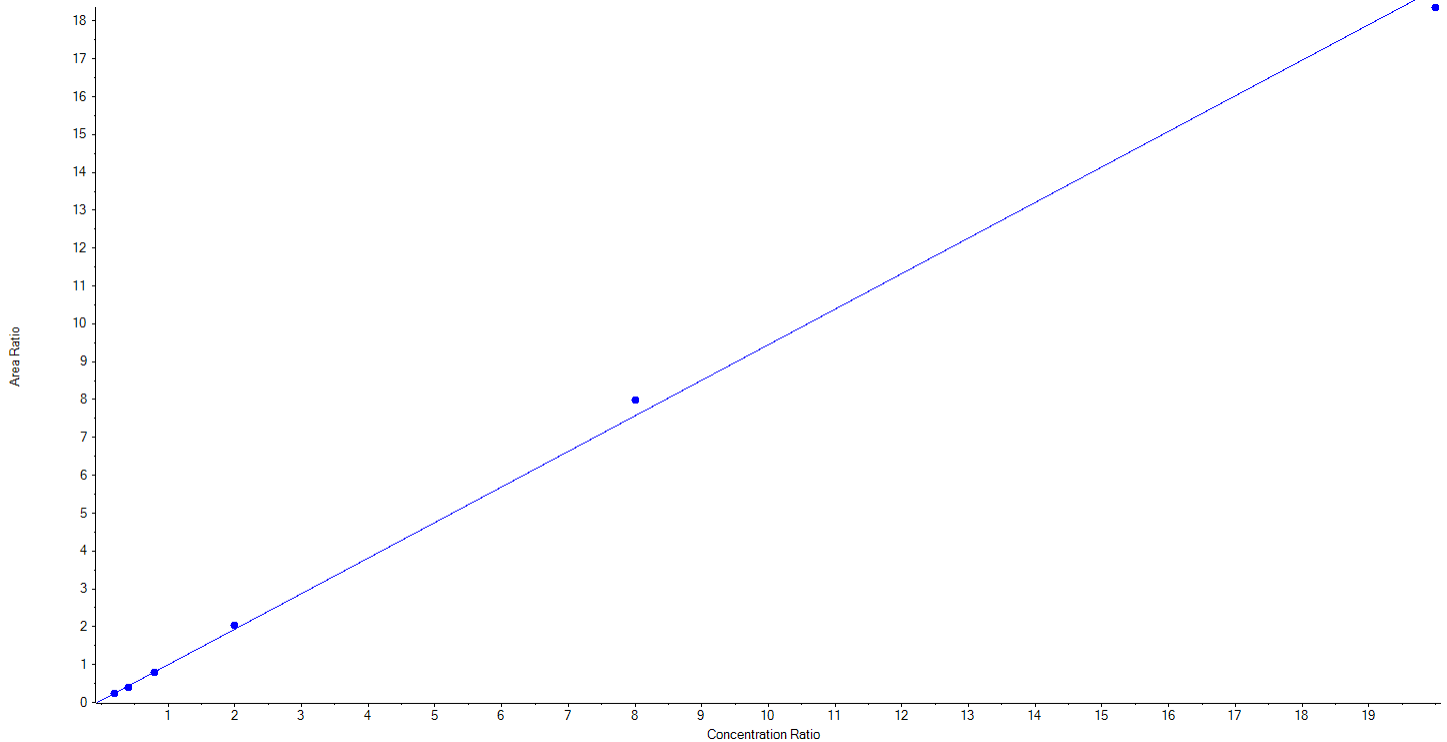
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Analyte Name	PFHpA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	363.0 / 319.0	Result Table	20-1321_A
Internal Standard	13C4-PFHpA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.93916x + 0.05757$ ($r = 0.99914$) (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	LE52	L1	True	250.00	249.58	99.8
3	LE53	L2	True	500.00	467.14	93.4
4	LE54	L3	True	1000.00	979.29	97.9
5	LE55	L4	True	2500.00	2645.78	105.8
6	LE56	L5	True	10000.00	10557.52	105.6
7	LE57	L6	True	25000.00	24350.68	97.4





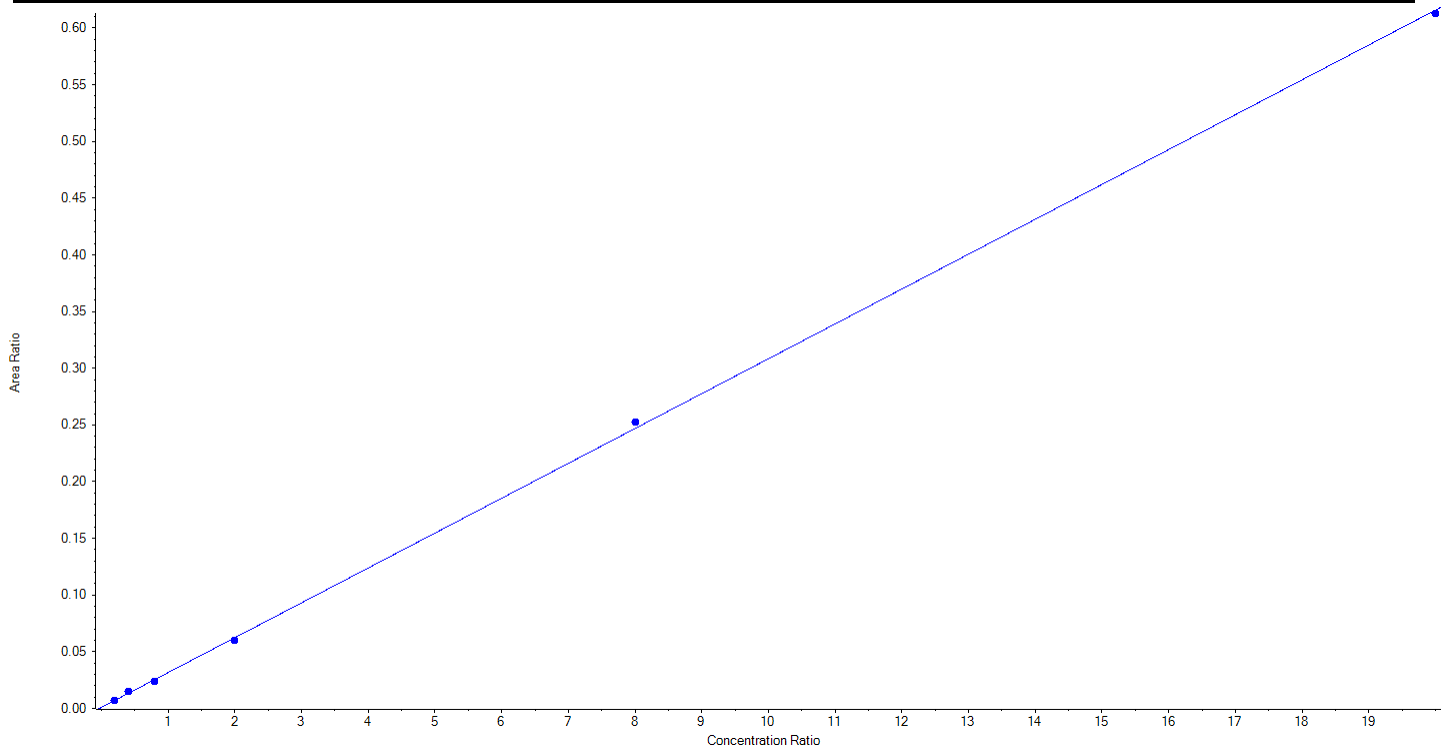
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Analyte Name	PFHpA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	363.0 / 169.0	Result Table	20-1321_A
Internal Standard	13C4-PFHpA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.03074 x + 9.48895e-4$ ($r = 0.99957$) (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	LE52	L1	True	250.00	238.02	95.2
3	LE53	L2	True	500.00	575.56	115.1
4	LE54	L3	True	1000.00	918.35	91.8
5	LE55	L4	True	2500.00	2397.57	95.9
6	LE56	L5	True	10000.00	10243.46	102.4
7	LE57	L6	True	25000.00	24877.04	99.5





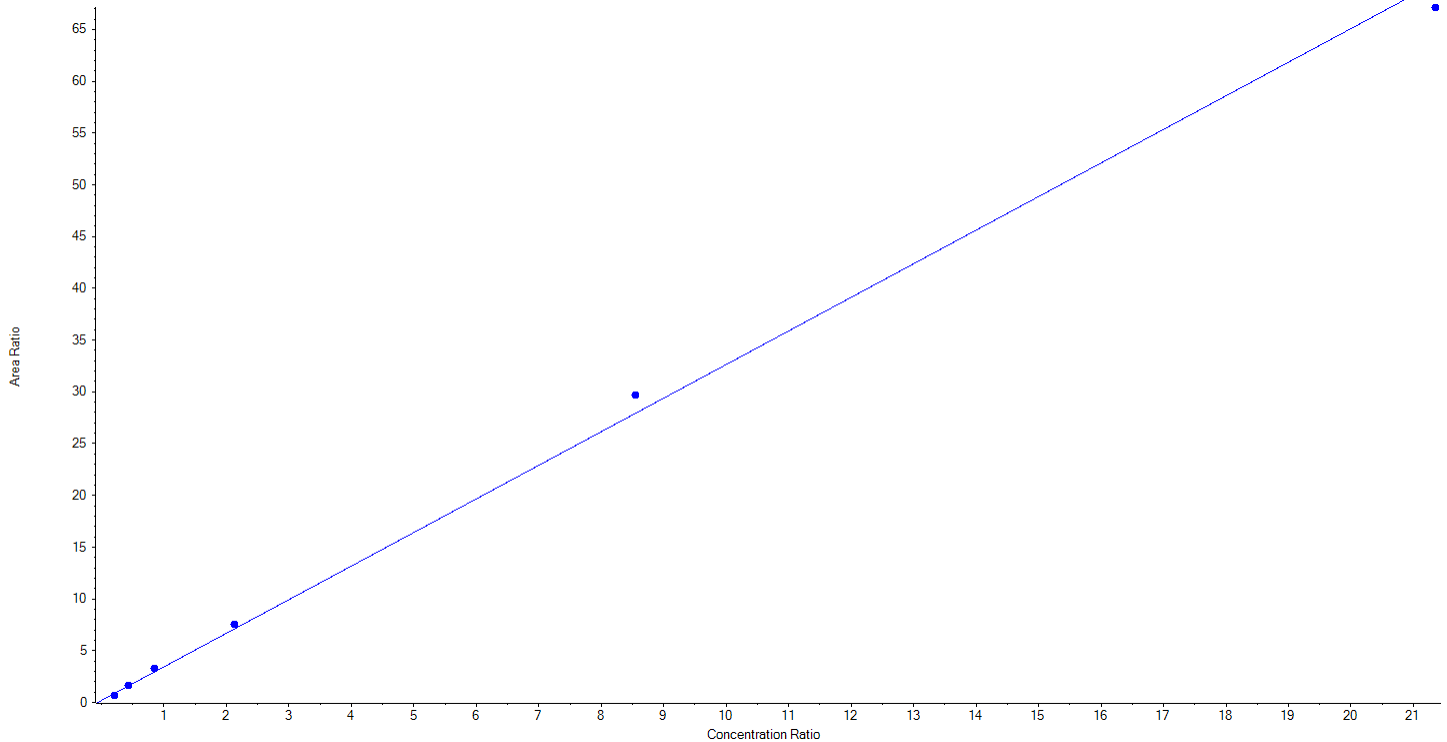
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Analyte Name	PFHxS_1	Data File	AE_11122020_5-369.wiff
MRM Transition	399.0 / 80.0	Result Table	20-1321_A
Internal Standard	13C3-PFHxS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 3.24428x + 0.19619$ ($r = 0.99845$) (weighting: $1/x$) $r^2: 0.9969$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	252.50	189.16	74.9
3	LE53	L2	True	505.00	529.33	104.8
4	LE54	L3	True	1010.00	1127.36	111.6
5	LE55	L4	True	2525.00	2670.57	105.8
6	LE56	L5	True	10100.00	10734.85	106.3
7	LE57	L6	True	25250.00	24391.24	96.6





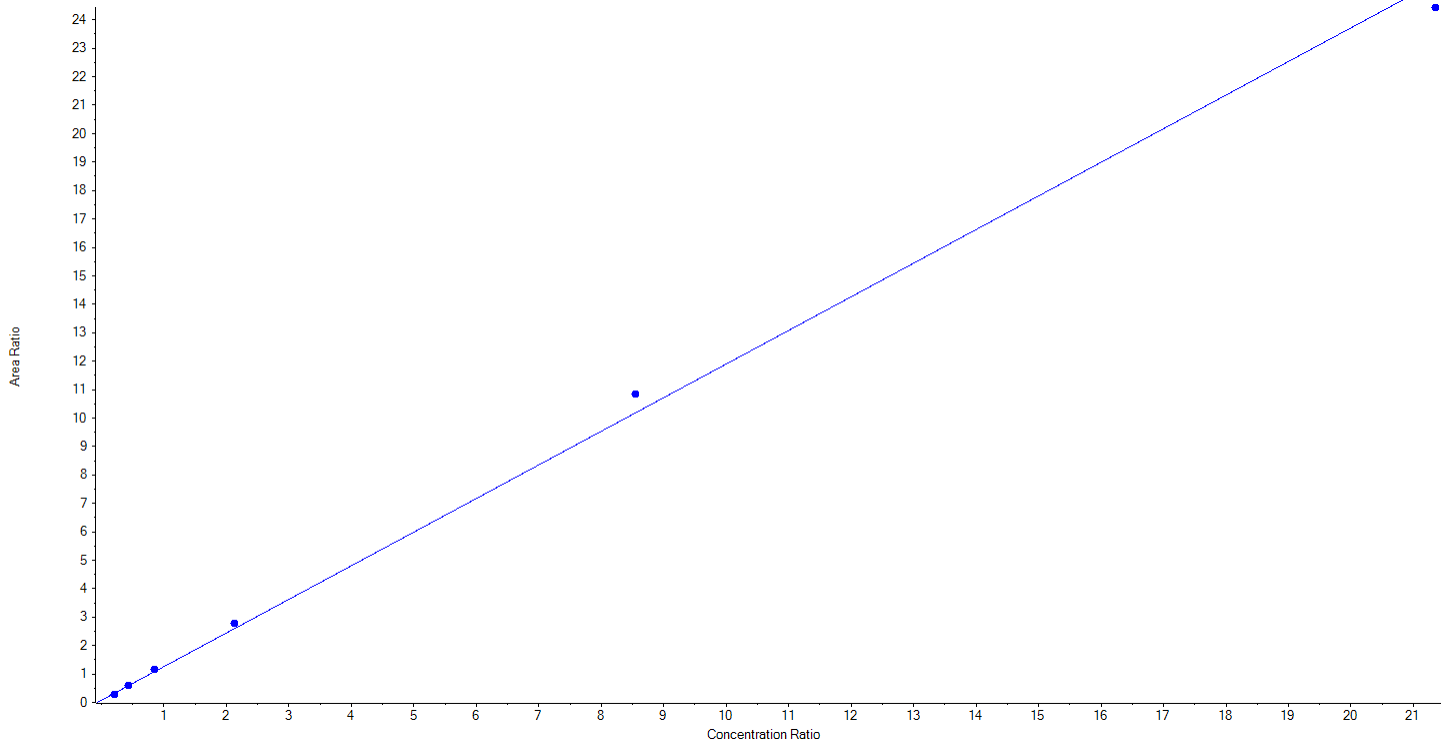
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Analyte Name	PFHxS_2	Data File	AE_11122020_5-369.wiff
MRM Transition	399.0 / 99.0	Result Table	20-1321_A
Internal Standard	13C3-PFHxS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.18195x + 0.07903$ ($r = 0.99854$) (weighting: $1/x$) $r^2: 0.9971$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	252.50	207.64	82.2
3	LE53	L2	True	505.00	510.87	101.2
4	LE54	L3	True	1010.00	1071.01	106.0
5	LE55	L4	True	2525.00	2710.71	107.4
6	LE56	L5	True	10100.00	10778.60	106.7
7	LE57	L6	True	25250.00	24363.68	96.5





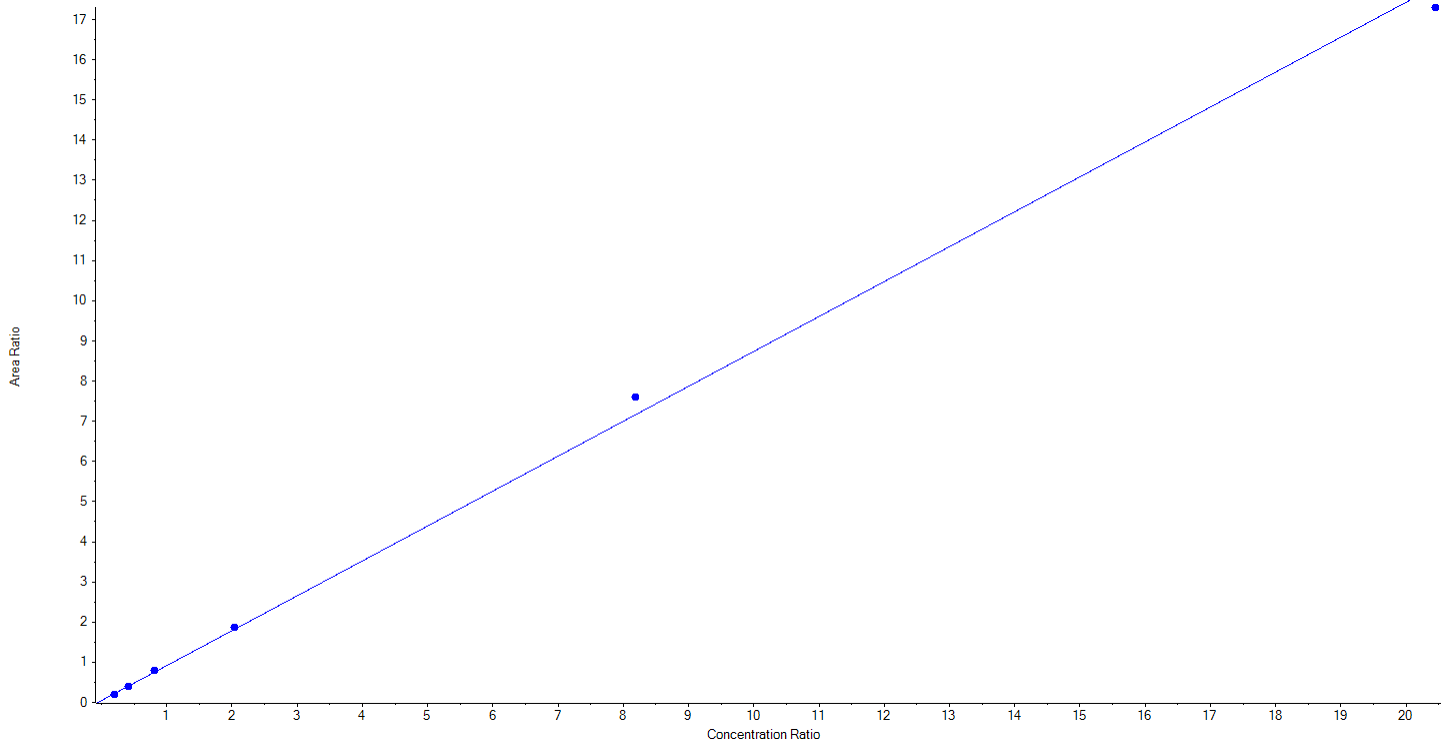
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Analyte Name	PFOA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	413.0 / 369.0	Result Table	20-1321_A
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.86904x + 0.04719$ ($r = 0.99899$) (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	LE52	L1	True	250.00	223.07	89.2
3	LE53	L2	True	500.00	498.96	99.8
4	LE54	L3	True	1000.00	1043.40	104.3
5	LE55	L4	True	2500.00	2579.37	103.2
6	LE56	L5	True	10000.00	10640.43	106.4
7	LE57	L6	True	25000.00	24264.76	97.1





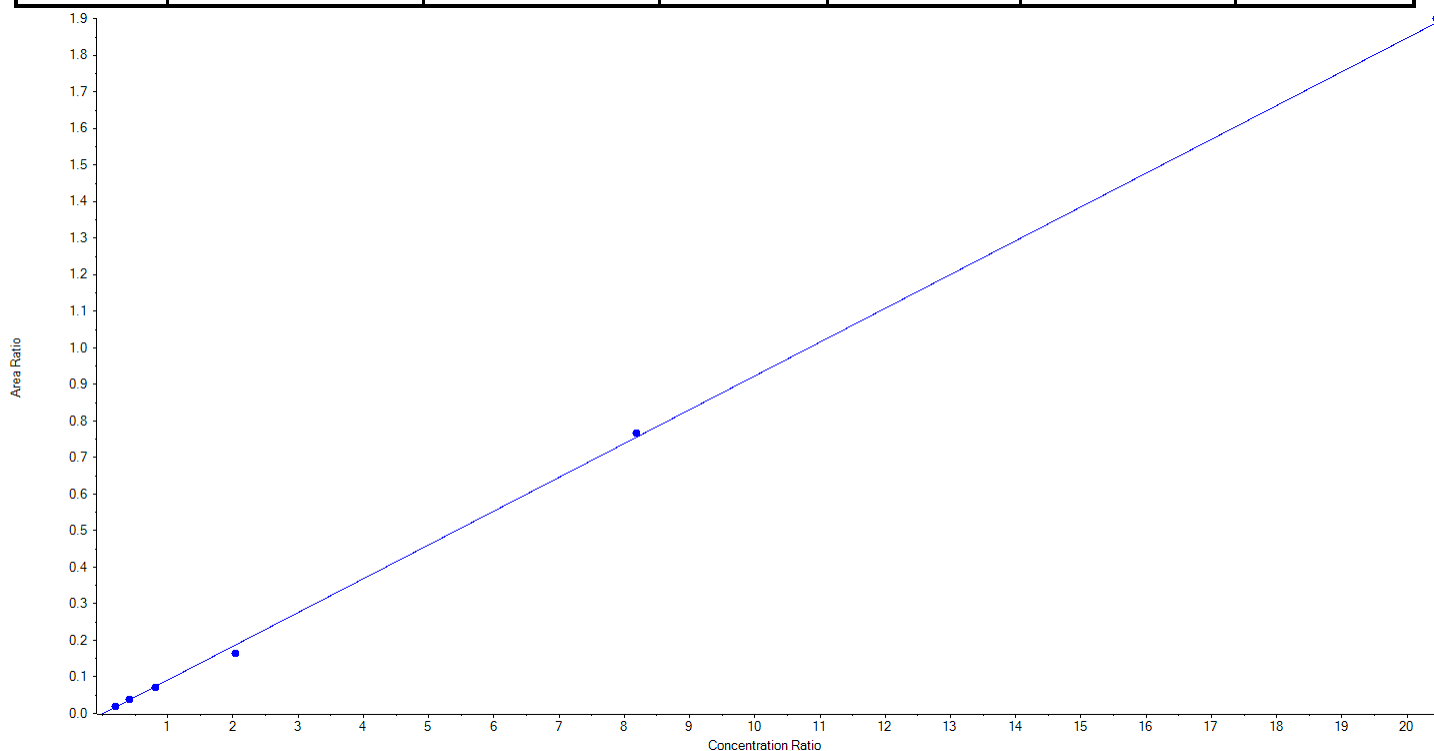
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Analyte Name	PFOA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	413.0 / 169.0	Result Table	20-1321_A
Internal Standard	13C8-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.09244 x + -0.00113$ ($r = 0.99929$) (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	LE52	L1	True	250.00	278.23	111.3
3	LE53	L2	True	500.00	514.25	102.9
4	LE54	L3	True	1000.00	964.22	96.4
5	LE55	L4	True	2500.00	2180.56	87.2
6	LE56	L5	True	10000.00	10160.57	101.6
7	LE57	L6	True	25000.00	25152.18	100.6





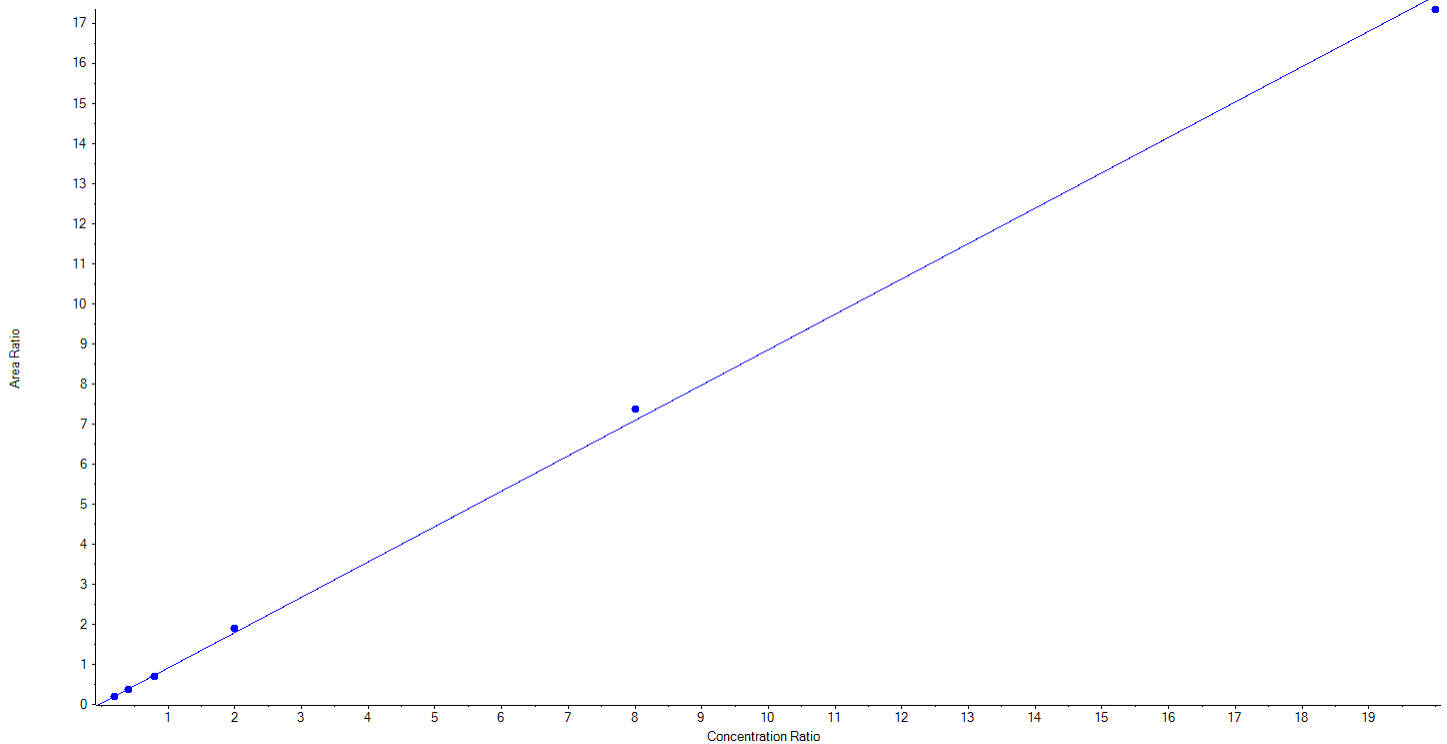
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Analyte Name	PFNA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	463.0 / 419.0	Result Table	20-1321_A
Internal Standard	13C9-PFNA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.88290x + 0.02867$ ($r = 0.99948$) (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	LE52	L1	True	250.00	245.88	98.4
3	LE53	L2	True	500.00	490.29	98.1
4	LE54	L3	True	1000.00	955.89	95.6
5	LE55	L4	True	2500.00	2651.11	106.0
6	LE56	L5	True	10000.00	10388.29	103.9
7	LE57	L6	True	25000.00	24518.55	98.1





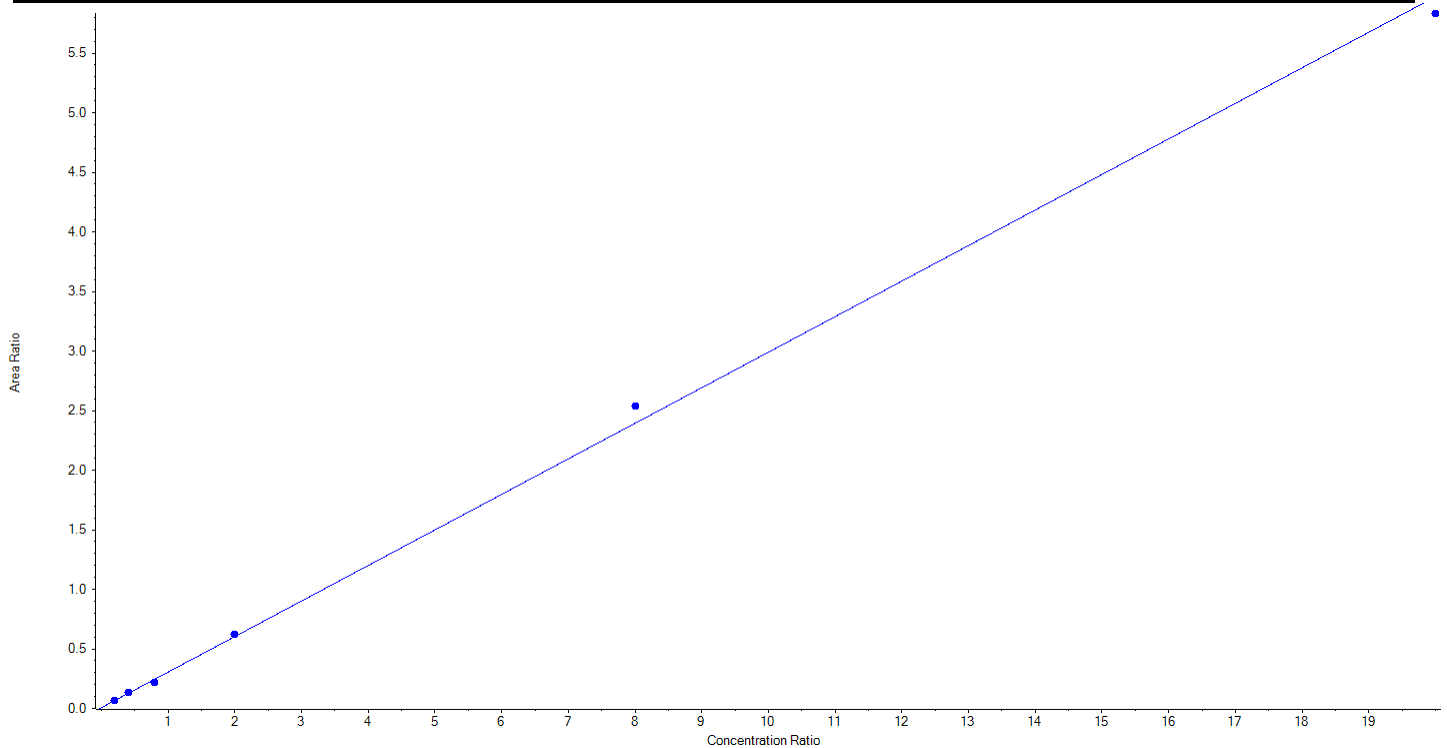
Calibration Summary Report

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Analyte Name	PFNA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	463.0 / 219.0	Result Table	20-1321_A
Internal Standard	13C9-PFNA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.29833x + 0.00725$ ($r = 0.99906$) (weighting: $1/x$) $r^2: 0.9981$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	250.00	246.66	98.7
3	LE53	L2	True	500.00	527.34	105.5
4	LE54	L3	True	1000.00	893.56	89.4
5	LE55	L4	True	2500.00	2571.44	102.9
6	LE56	L5	True	10000.00	10602.06	106.0
7	LE57	L6	True	25000.00	24408.95	97.6





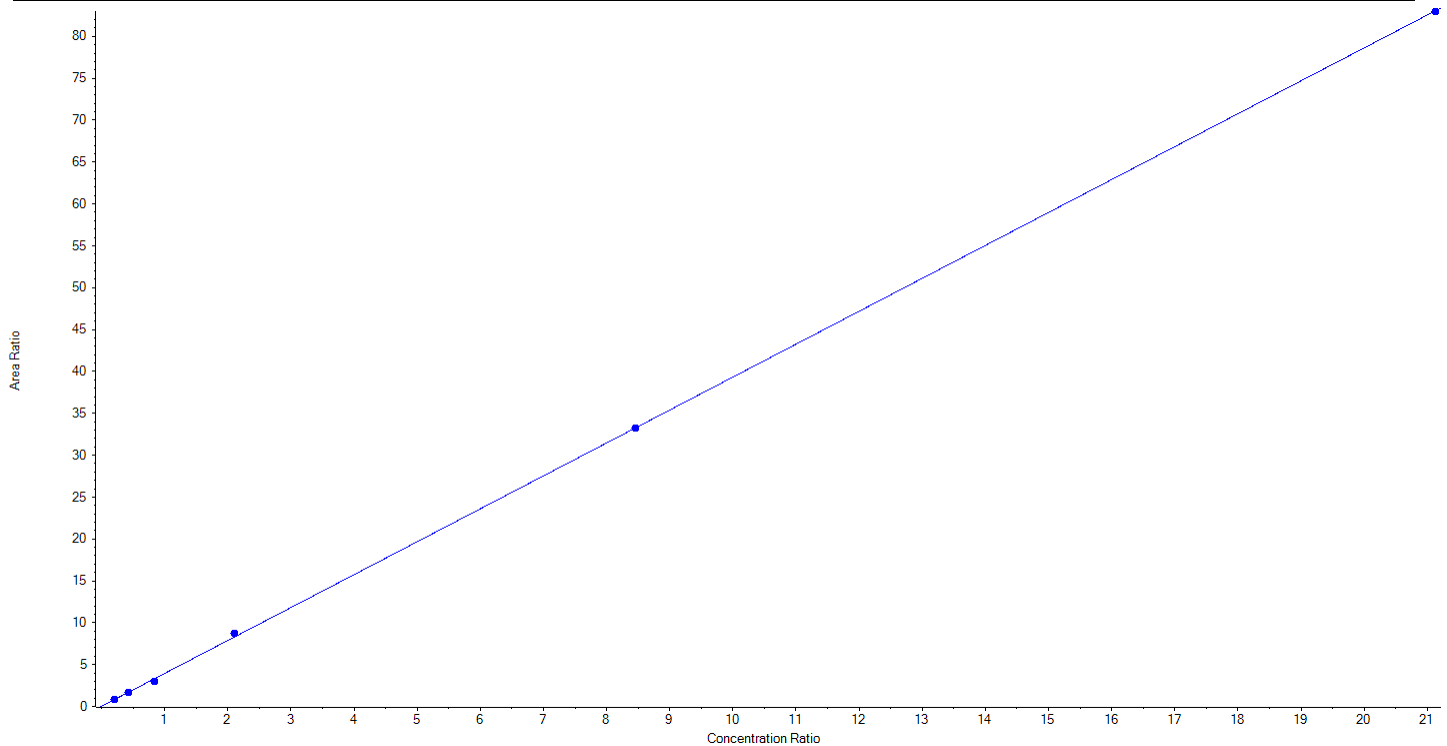
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Analyte Name	PFOS_1	Data File	AE_11122020_5-369.wiff
MRM Transition	499.0 / 80.0	Result Table	20-1321_A
Internal Standard	13C8-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 3.93046x + 0.01644$ ($r = 0.99974$) (weighting: $1/x$) $r^2: 0.9995$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	252.50	264.95	104.9
3	LE53	L2	True	505.00	504.85	100.0
4	LE54	L3	True	1010.00	909.14	90.0
5	LE55	L4	True	2525.00	2660.63	105.4
6	LE56	L5	True	10100.00	10082.89	99.8
7	LE57	L6	True	25250.00	25220.03	99.9





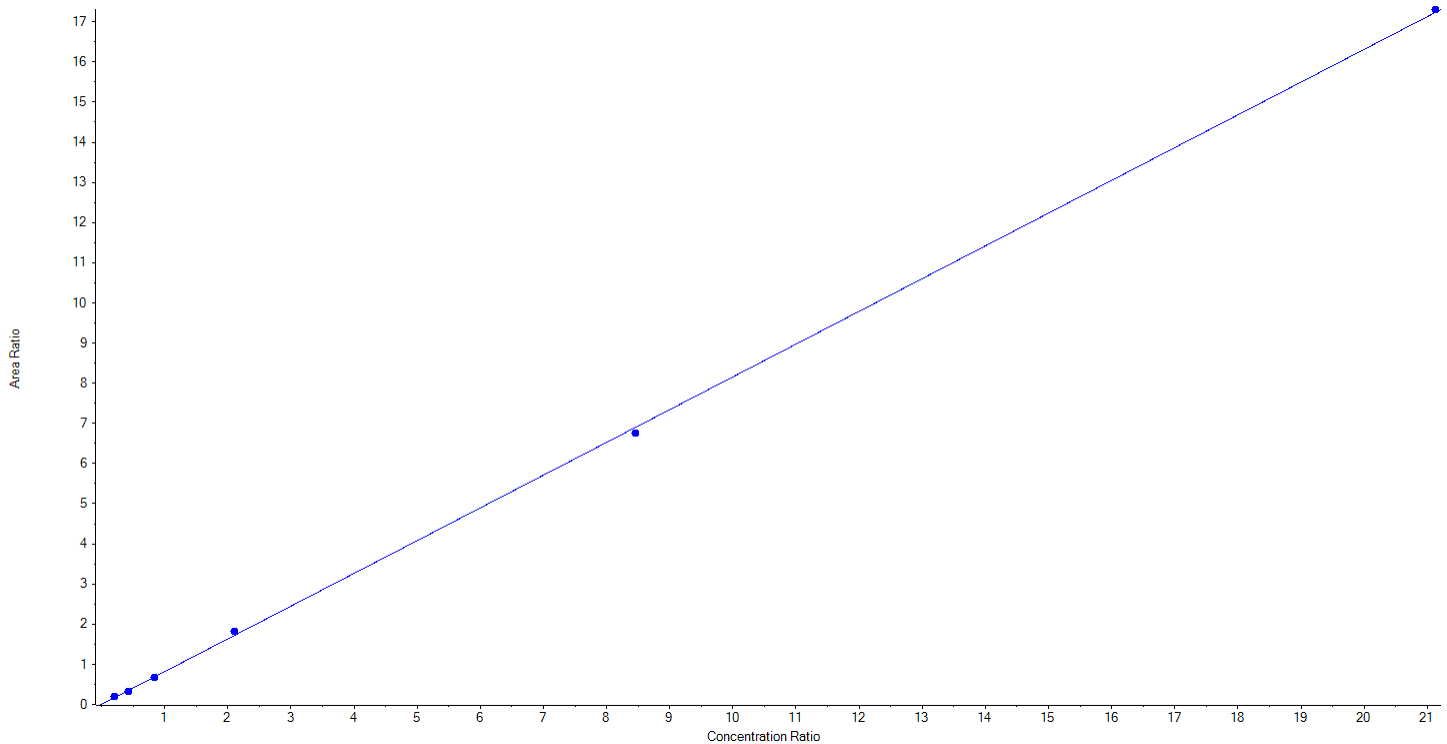
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Analyte Name	PFOS_2	Data File	AE_11122020_5-369.wiff
MRM Transition	499.0 / 99.0	Result Table	20-1321_A
Internal Standard	13C8-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.81549x + 0.00194$ ($r = 0.99972$) (weighting: $1/x$) $r^2: 0.9994$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	252.50	272.11	107.8
3	LE53	L2	True	505.00	462.46	91.6
4	LE54	L3	True	1010.00	972.51	96.3
5	LE55	L4	True	2525.00	2672.79	105.9
6	LE56	L5	True	10100.00	9908.36	98.1
7	LE57	L6	True	25250.00	25354.27	100.4





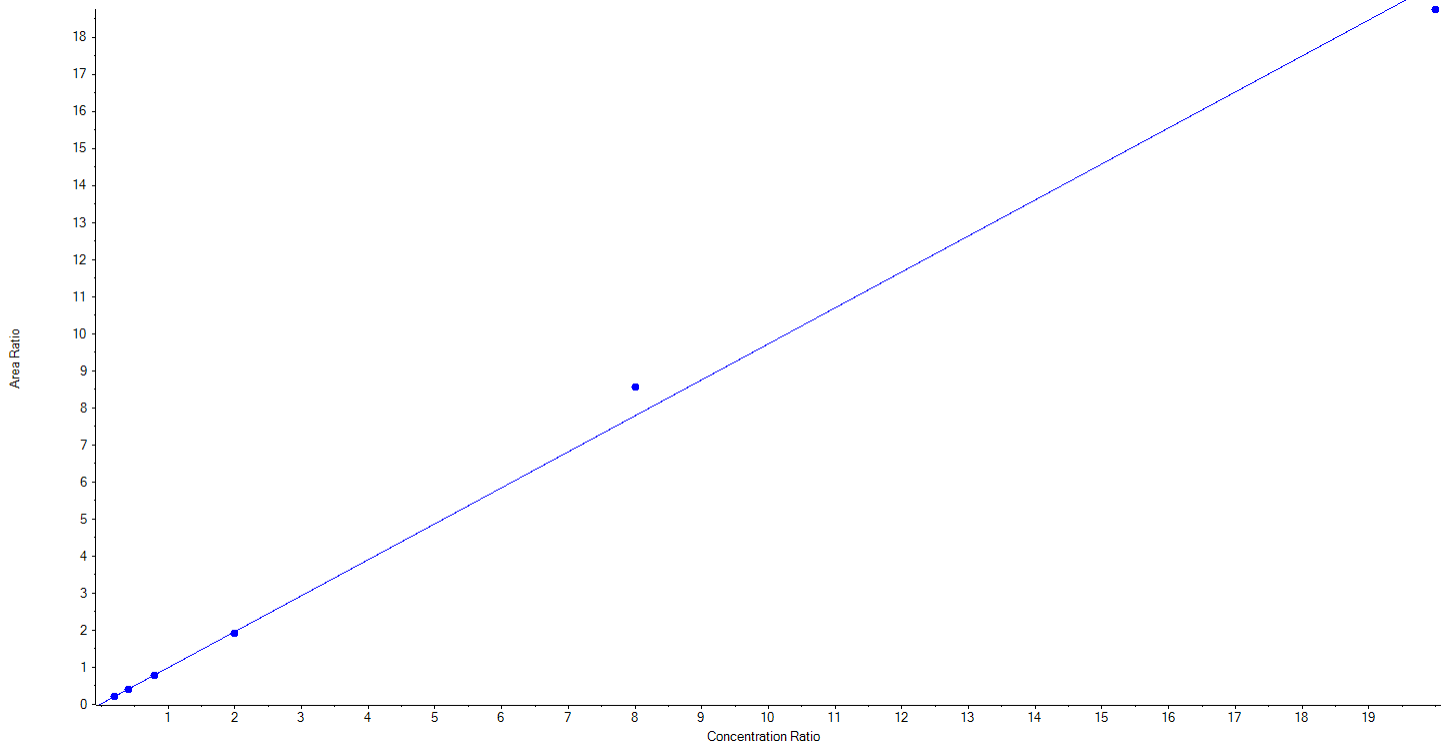
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Analyte Name	PFDA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	513.0 / 469.0	Result Table	20-1321_A
Internal Standard	13C6-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.97093x + 0.02279$ ($r = 0.99811$) (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	LE52	L1	True	250.00	253.59	101.4
3	LE53	L2	True	500.00	490.11	98.0
4	LE54	L3	True	1000.00	963.40	96.3
5	LE55	L4	True	2500.00	2448.20	97.9
6	LE56	L5	True	10000.00	10982.06	109.8
7	LE57	L6	True	25000.00	24112.63	96.5





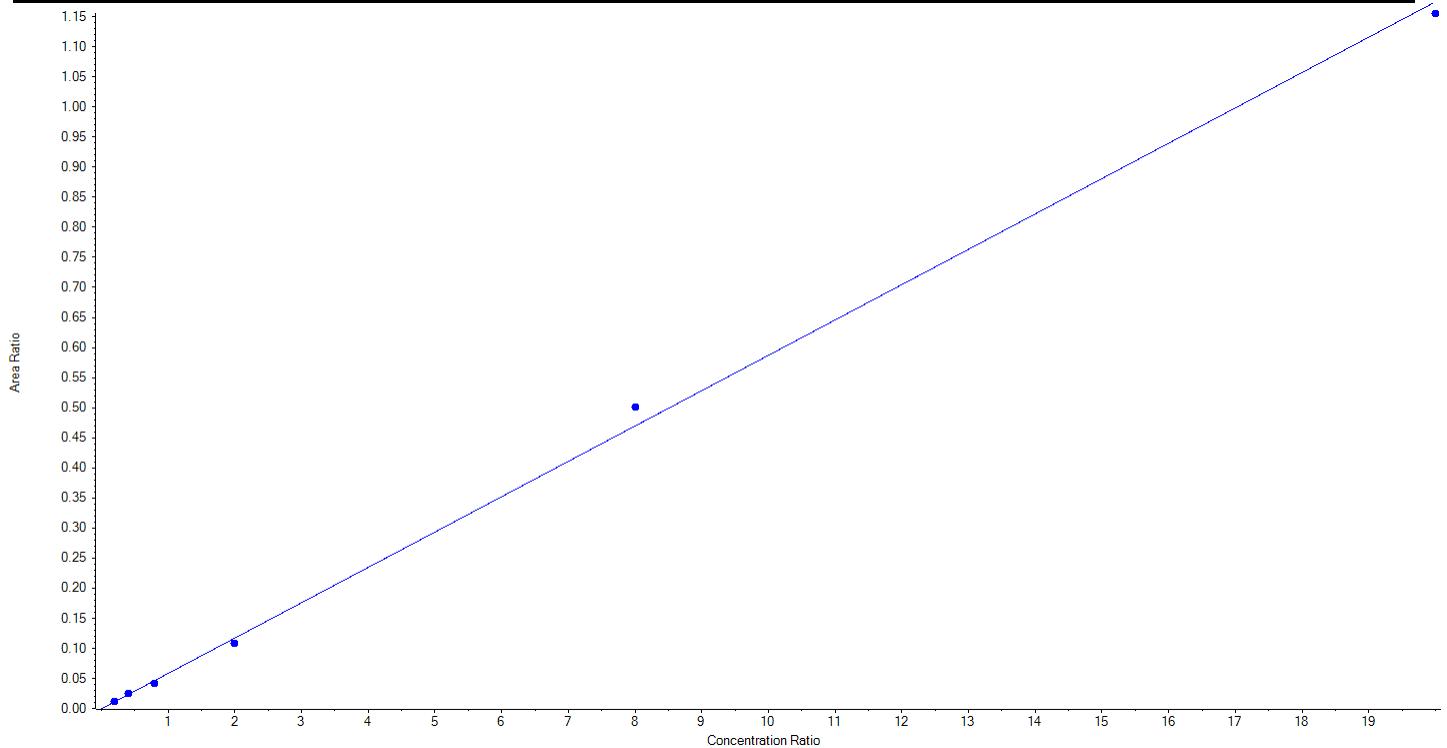
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Analyte Name	PFDA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	513.0 / 219.0	Result Table	20-1321_A
Internal Standard	13C6-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.05876 x + -4.42662e-4$ ($r = 0.99874$) (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	LE52	L1	True	250.00	271.73	108.7
3	LE53	L2	True	500.00	530.42	106.1
4	LE54	L3	True	1000.00	880.29	88.0
5	LE55	L4	True	2500.00	2301.17	92.1
6	LE56	L5	True	10000.00	10680.20	106.8
7	LE57	L6	True	25000.00	24586.18	98.3





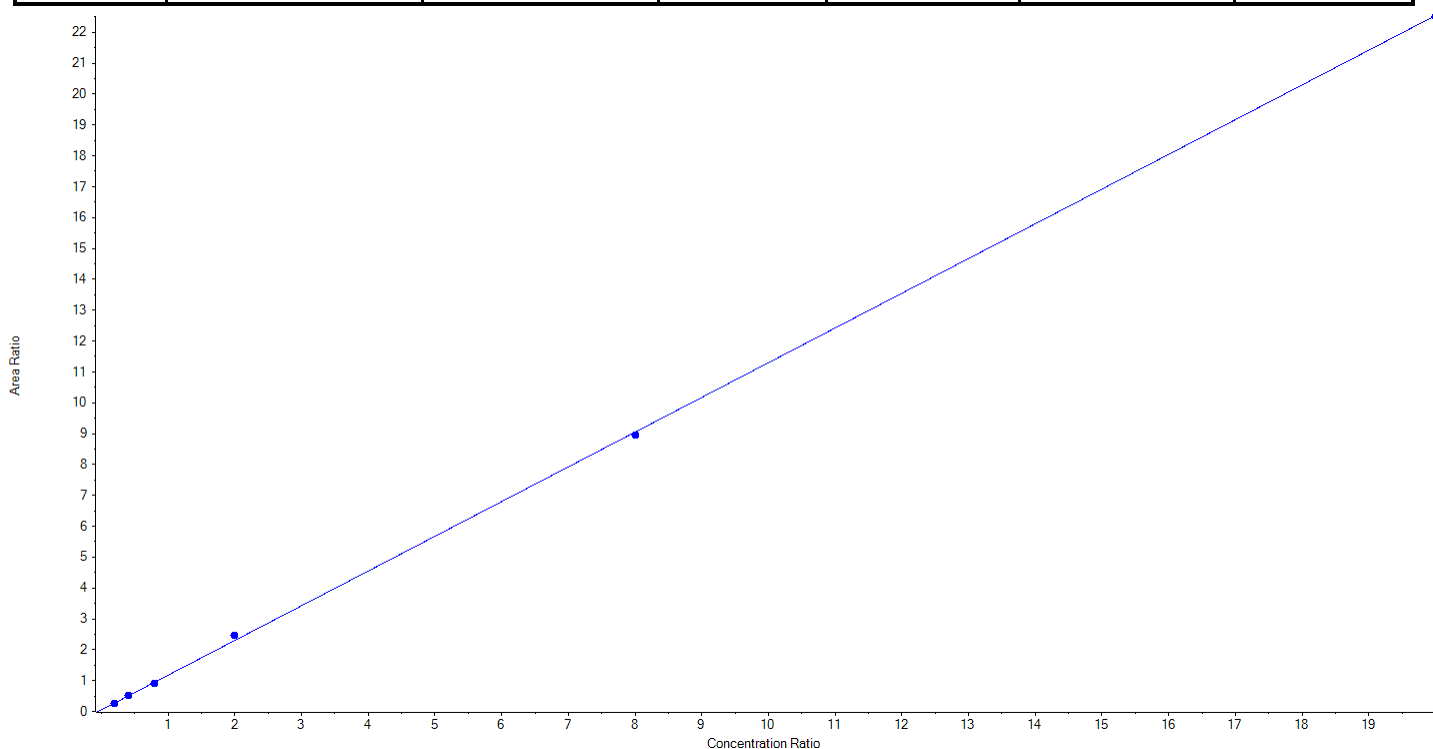
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Analyte Name	PFUnA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	563.0 / 519.0	Result Table	20-1321_A
Internal Standard	13C7-PFUnA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.12461x + 0.05236$ ($r = 0.99971$) (weighting: $1/x$) $r^2: 0.9994$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	250.00	247.05	98.8
3	LE53	L2	True	500.00	505.66	101.1
4	LE54	L3	True	1000.00	933.97	93.4
5	LE55	L4	True	2500.00	2693.18	107.7
6	LE56	L5	True	10000.00	9907.10	99.1
7	LE57	L6	True	25000.00	24963.04	99.9





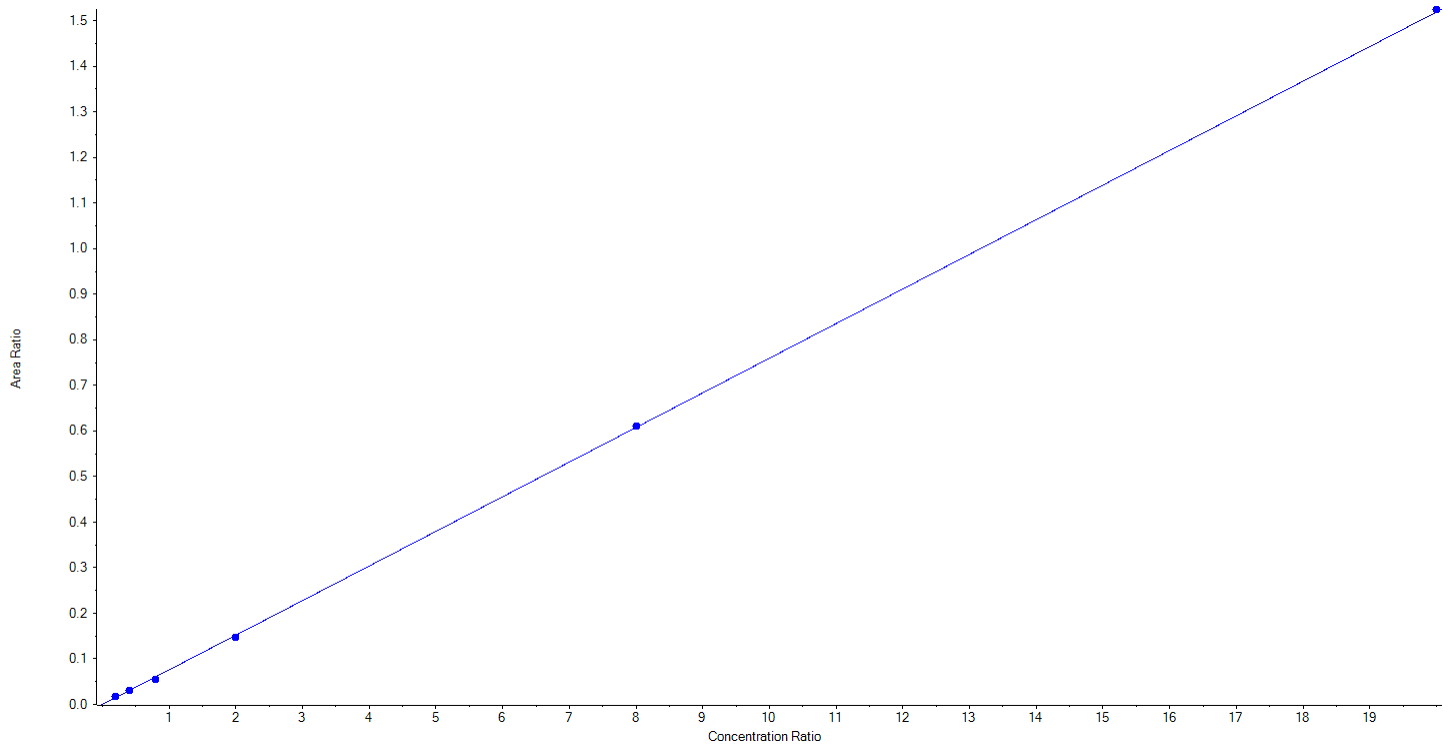
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Analyte Name	PFUnA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	563.0 / 269.0	Result Table	20-1321_A
Internal Standard	13C7-PFUnA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.07595x + 1.05735e-4$ ($r = 0.99980$) (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	LE52	L1	True	250.00	274.65	109.9
3	LE53	L2	True	500.00	506.89	101.4
4	LE54	L3	True	1000.00	910.33	91.0
5	LE55	L4	True	2500.00	2422.60	96.9
6	LE56	L5	True	10000.00	10047.39	100.5
7	LE57	L6	True	25000.00	25088.15	100.4





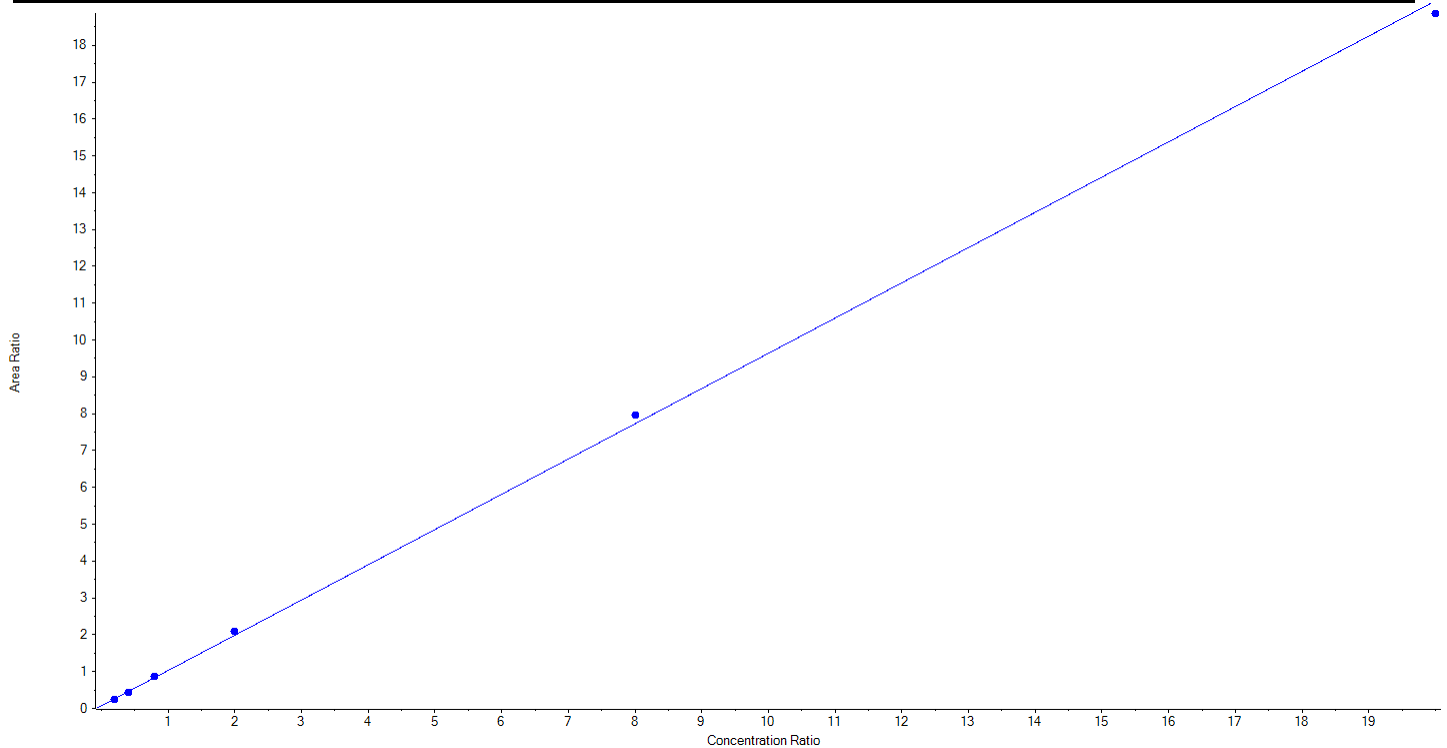
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Analyte Name	PFDoA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	613.0 / 569.0	Result Table	20-1321_A
Internal Standard	13C2-PFDoA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.95666x + 0.07453$ ($r = 0.99958$) (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	LE52	L1	True	250.00	236.10	94.4
3	LE53	L2	True	500.00	474.19	94.8
4	LE54	L3	True	1000.00	1041.36	104.1
5	LE55	L4	True	2500.00	2629.99	105.2
6	LE56	L5	True	10000.00	10319.05	103.2
7	LE57	L6	True	25000.00	24549.31	98.2





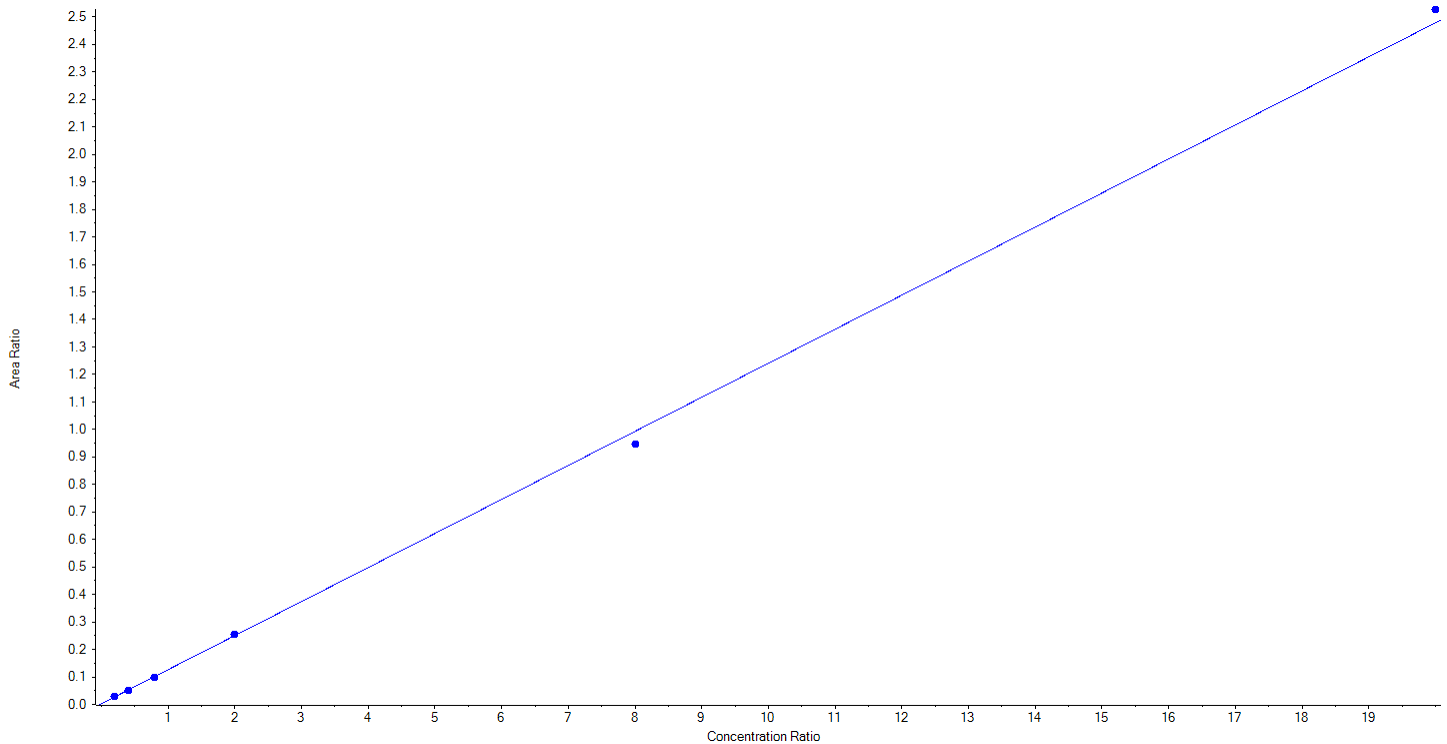
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Analyte Name	PFDoA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	613.0 / 319.0	Result Table	20-1321_A
Internal Standard	13C2-PFDoA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.12378x + 0.00298$ ($r = 0.99944$) (weighting: $1/x$) $r^2: 0.9989$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	250.00	277.98	111.2
3	LE53	L2	True	500.00	478.46	95.7
4	LE54	L3	True	1000.00	947.45	94.8
5	LE55	L4	True	2500.00	2527.73	101.1
6	LE56	L5	True	10000.00	9531.15	95.3
7	LE57	L6	True	25000.00	25487.22	102.0





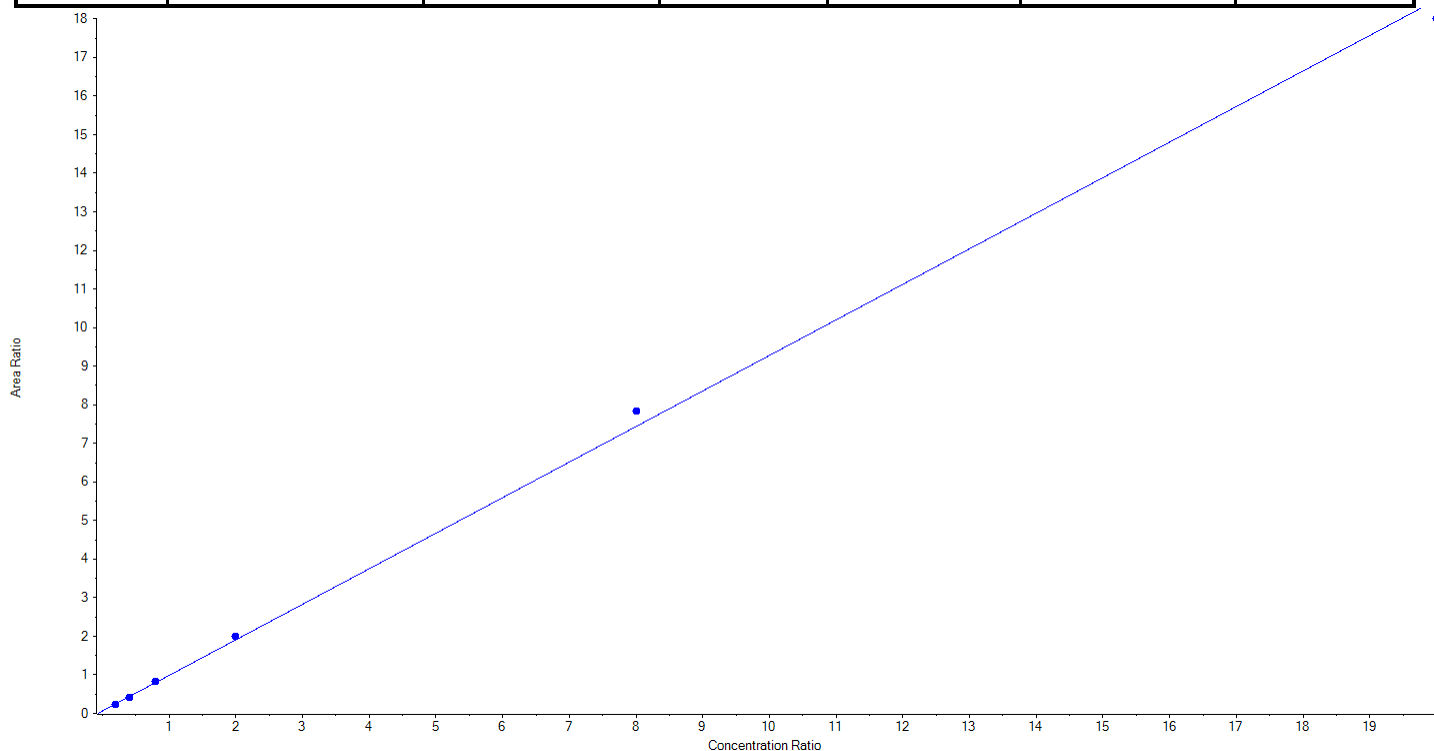
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Analyte Name	PFTrDA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	663.0 / 619.0	Result Table	20-1321_A
Internal Standard	13C2-PFTeDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.92130x + 0.06602$ ($r = 0.99921$) (weighting: $1/x$) $r^2: 0.9984$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	250.00	229.23	91.7
3	LE53	L2	True	500.00	490.39	98.1
4	LE54	L3	True	1000.00	1027.89	102.8
5	LE55	L4	True	2500.00	2616.09	104.6
6	LE56	L5	True	10000.00	10542.15	105.4
7	LE57	L6	True	25000.00	24344.26	97.4





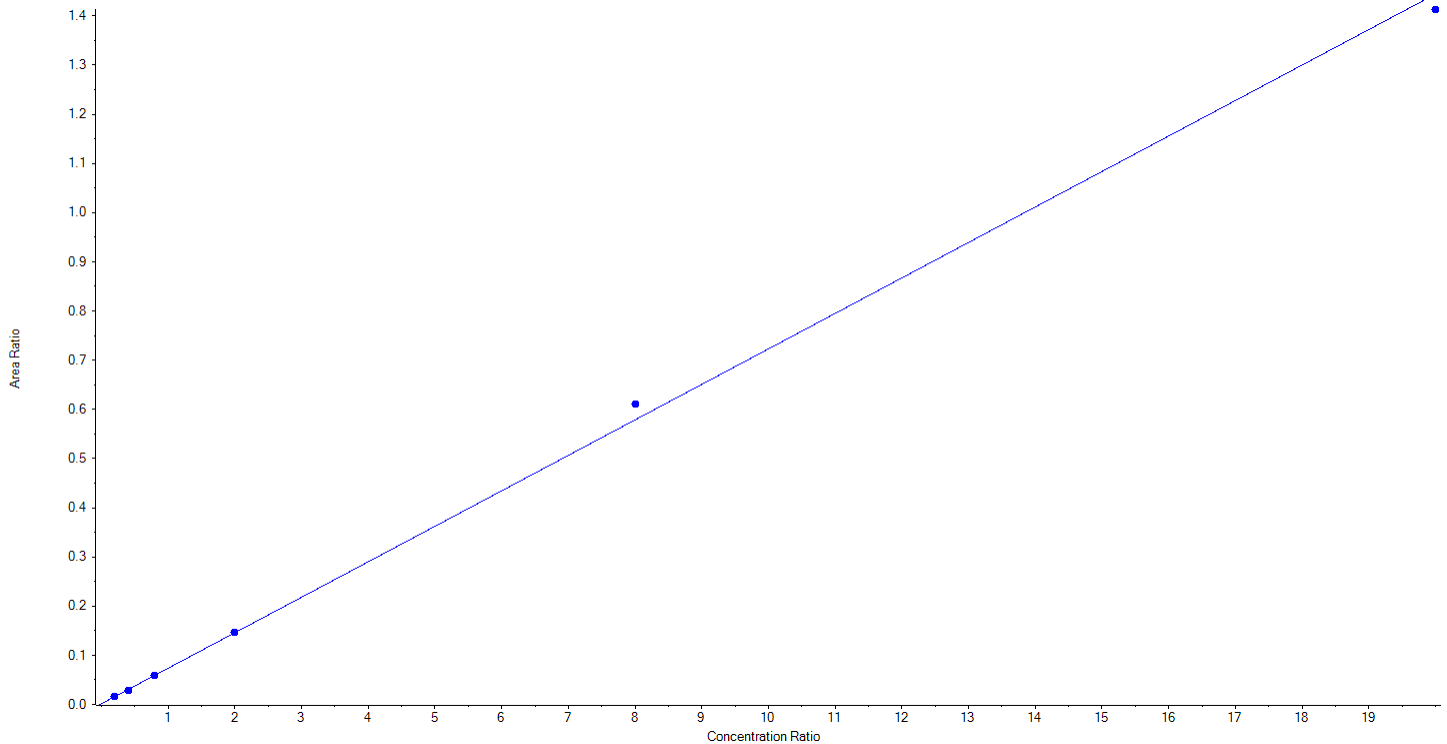
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Analyte Name	PFTrDA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	663.0 / 169.0	Result Table	20-1321_A
Internal Standard	13C2-PFTeDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.07213x + 0.00163$ ($r = 0.99931$) (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	LE52	L1	True	250.00	260.74	104.3
3	LE53	L2	True	500.00	460.26	92.1
4	LE54	L3	True	1000.00	999.28	99.9
5	LE55	L4	True	2500.00	2505.42	100.2
6	LE56	L5	True	10000.00	10568.23	105.7
7	LE57	L6	True	25000.00	24456.07	97.8





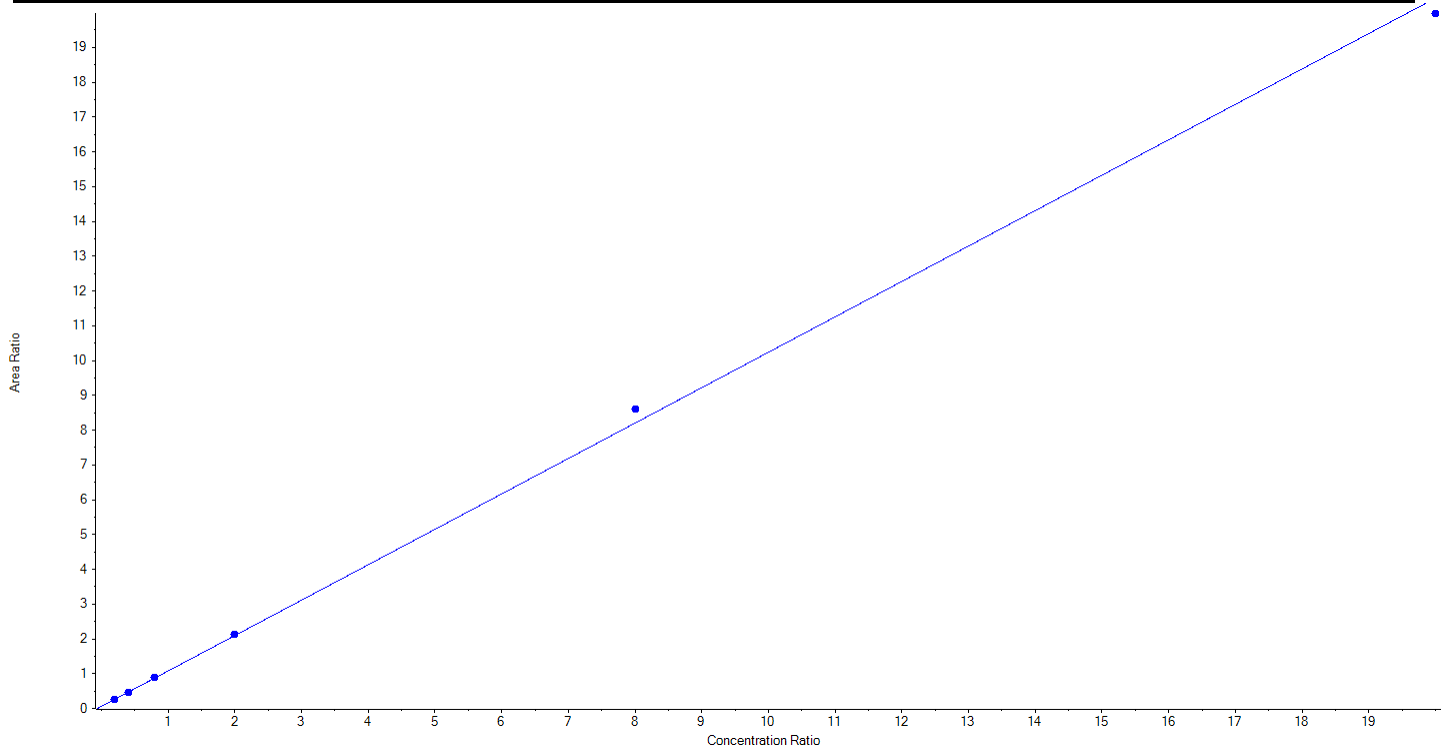
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Analyte Name	PFTeDA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	713.0 / 669.0	Result Table	20-1321_A
Internal Standard	13C2-PFTeDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.01774 x + 0.06066$ ($r = 0.99943$) (weighting: $1/x$) $r^2: 0.9989$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	250.00	240.81	96.3
3	LE53	L2	True	500.00	487.55	97.5
4	LE54	L3	True	1000.00	1016.50	101.7
5	LE55	L4	True	2500.00	2540.13	101.6
6	LE56	L5	True	10000.00	10508.82	105.1
7	LE57	L6	True	25000.00	24456.20	97.8





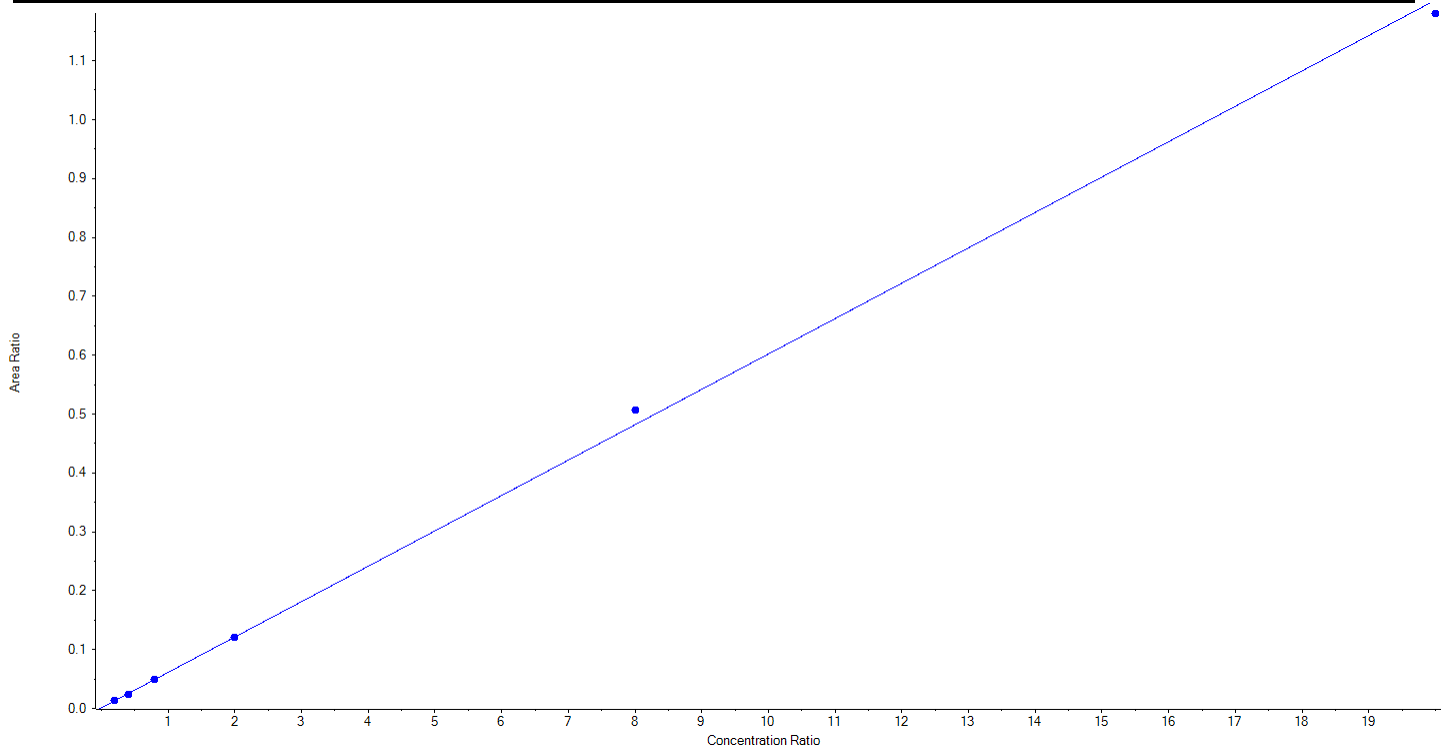
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Analyte Name	PFTeDA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	713.0 / 169.0	Result Table	20-1321_A
Internal Standard	13C2-PFTeDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.06008x + 0.00120$ ($r = 0.99946$) (weighting: $1/x$) $r^2: 0.9989$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	250.00	256.91	102.8
3	LE53	L2	True	500.00	479.31	95.9
4	LE54	L3	True	1000.00	988.72	98.9
5	LE55	L4	True	2500.00	2480.11	99.2
6	LE56	L5	True	10000.00	10519.28	105.2
7	LE57	L6	True	25000.00	24525.66	98.1





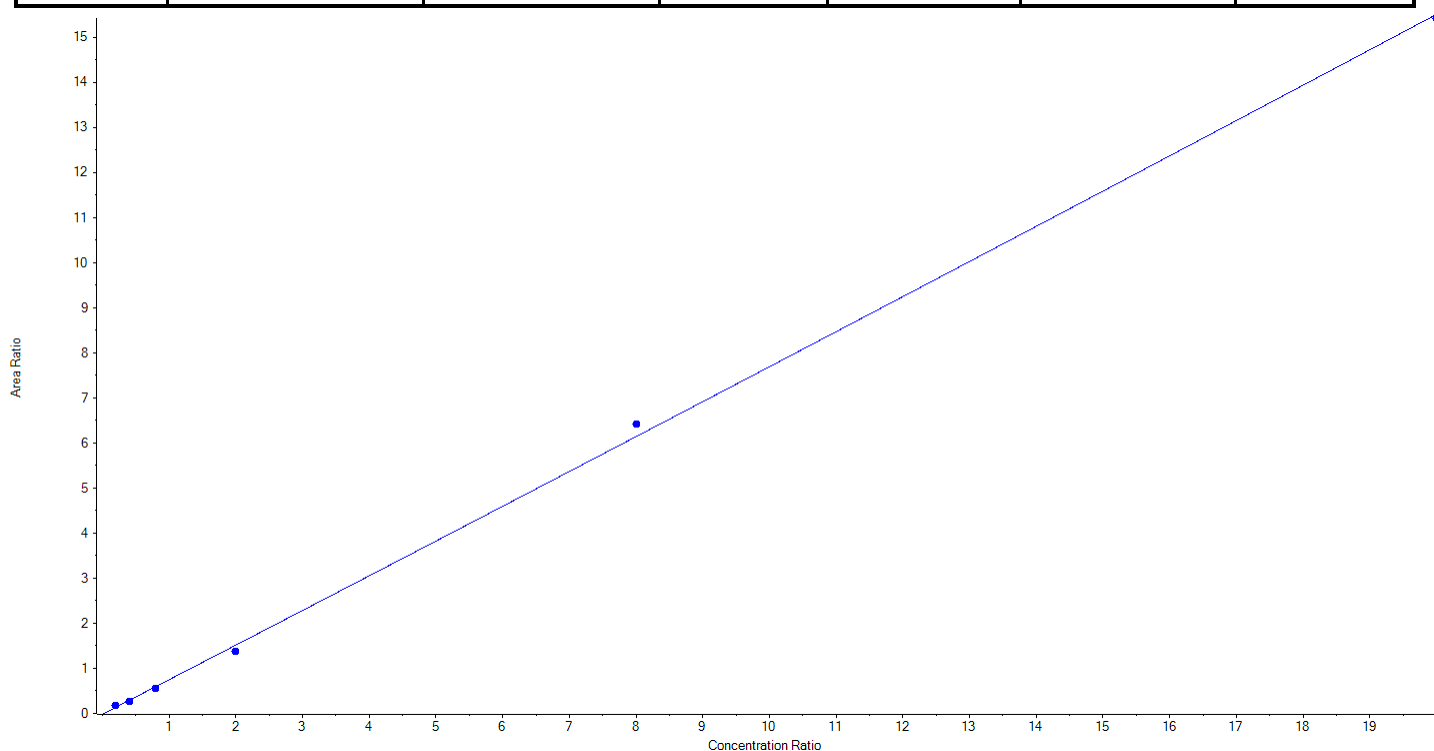
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Analyte Name	NMeFOSAA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	570.0 / 419.0	Result Table	20-1321_A
Internal Standard	d3-MeFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 5.46117e-4 x^2 + 0.76543 x + -0.01508$ (r = 0.99913) (weighting: 1 / x) r²:0.9983

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	250.00	298.91	119.6
3	LE53	L2	True	500.00	464.01	92.8
4	LE54	L3	True	1000.00	936.02	93.6
5	LE55	L4	True	2500.00	2254.32	90.2
6	LE56	L5	True	10000.00	10444.90	104.5
7	LE57	L6	True	25000.00	24851.61	99.4





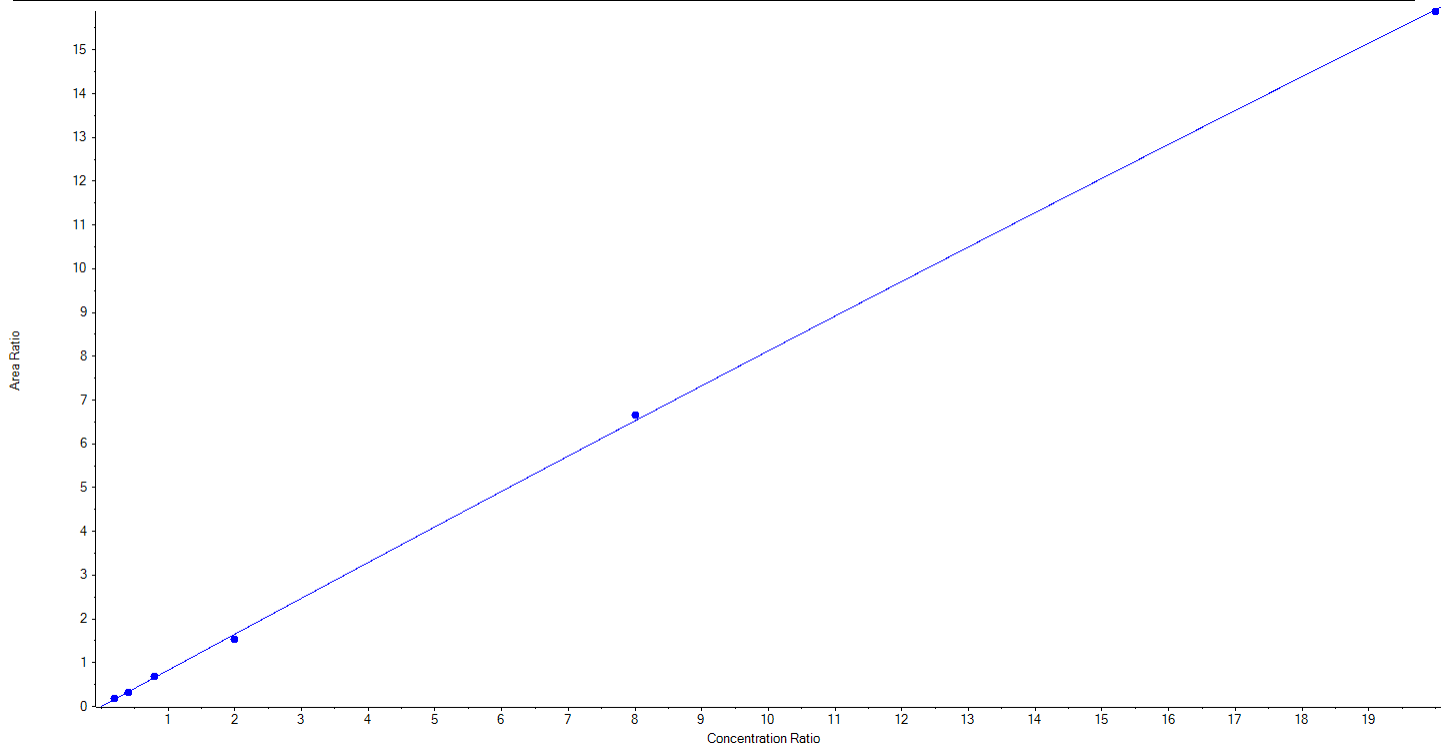
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Analyte Name	NMeFOSAA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	570.0 / 512.0	Result Table	20-1321_A
Internal Standard	d3-MeFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = -0.00164 x^2 + 0.82883 x + 8.67871e-4$ ($r = 0.99970$) (weighting: $1 / x$) $r^2:0.9994$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	250.00	257.60	103.0
3	LE53	L2	True	500.00	494.44	98.9
4	LE54	L3	True	1000.00	1034.69	103.5
5	LE55	L4	True	2500.00	2317.70	92.7
6	LE56	L5	True	10000.00	10219.62	102.2
7	LE57	L6	True	25000.00	24925.85	99.7





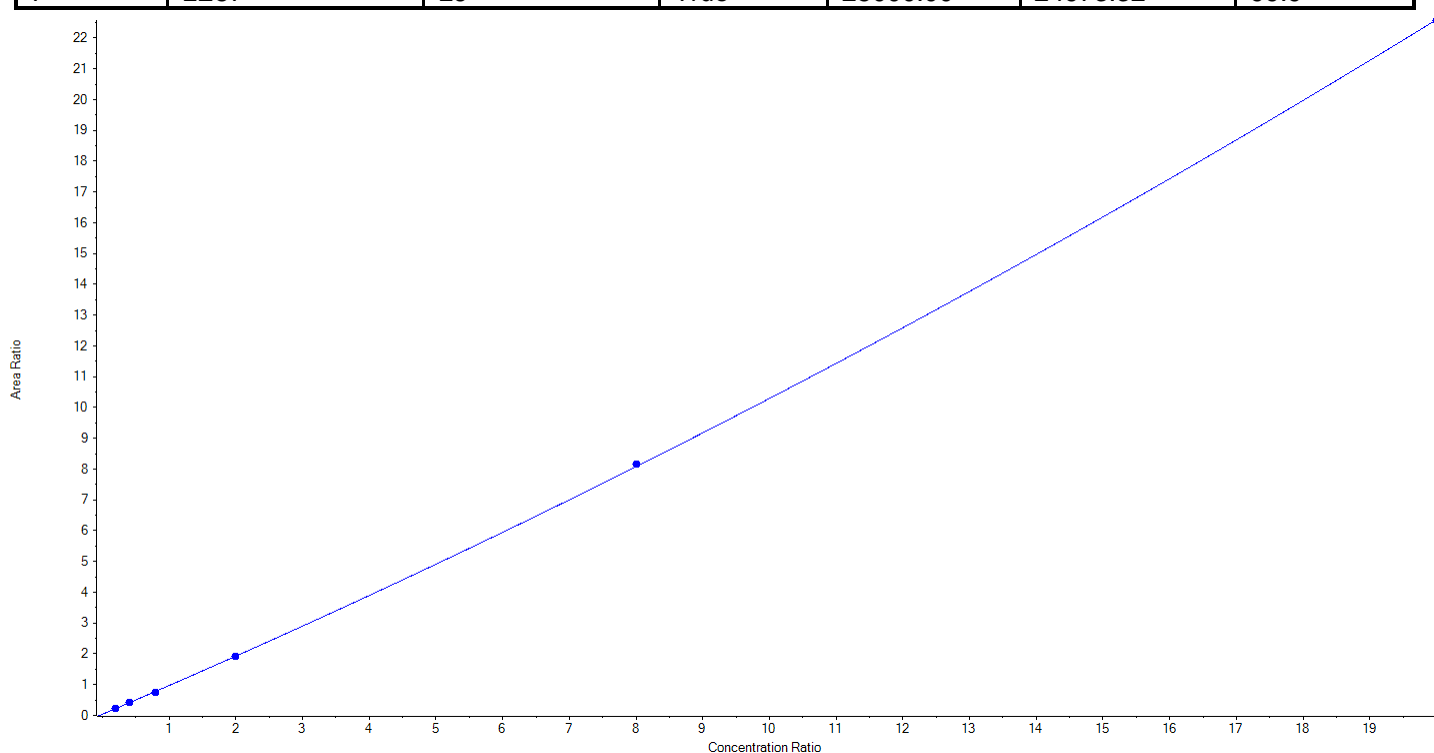
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Analyte Name	NEtFOSAA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	584.0 / 419.0	Result Table	20-1321_A
Internal Standard	d5-EtFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.01022 x^2 + 0.92337 x + 0.04004$ ($r = 0.99992$) (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	LE52	L1	True	250.00	258.35	103.3
3	LE53	L2	True	500.00	519.56	103.9
4	LE54	L3	True	1000.00	929.60	93.0
5	LE55	L4	True	2500.00	2474.18	99.0
6	LE56	L5	True	10000.00	10092.46	100.9
7	LE57	L6	True	25000.00	24973.32	99.9





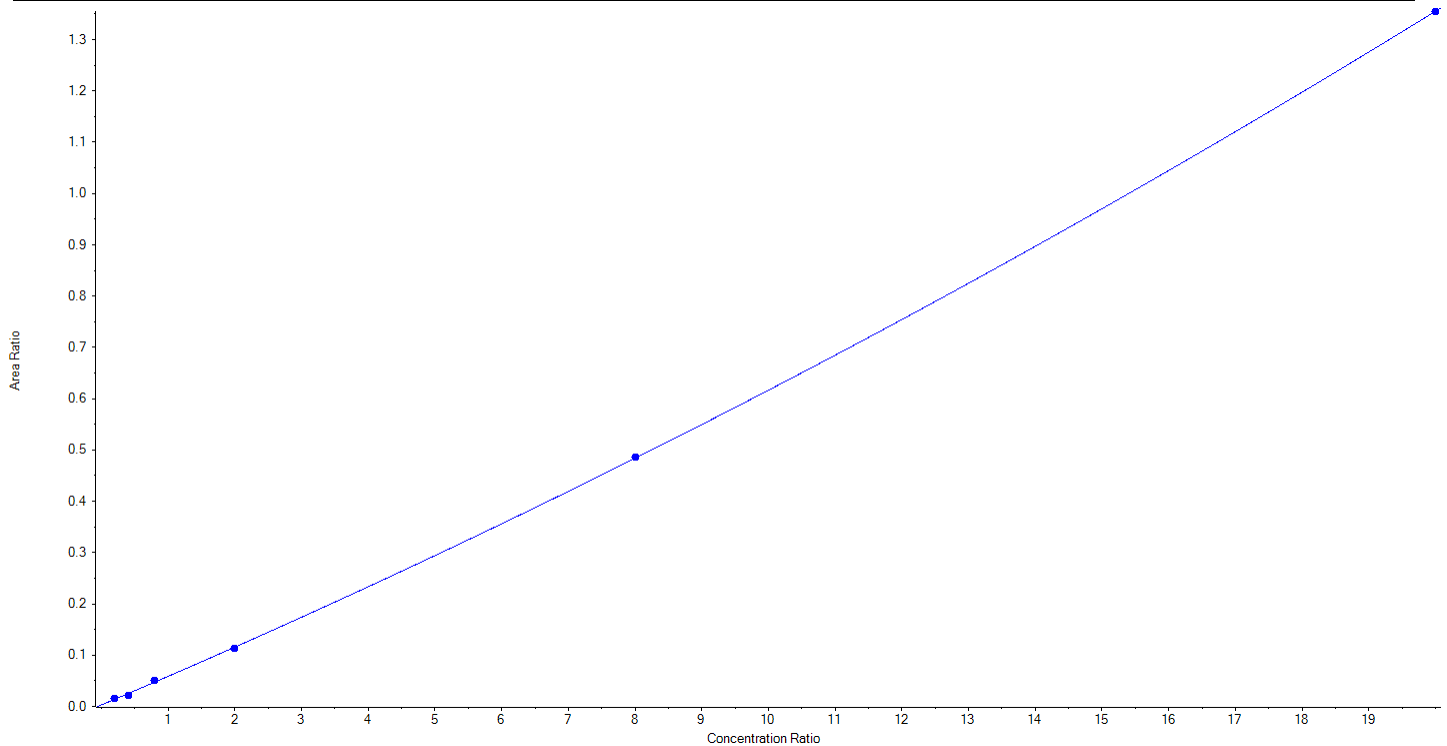
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Analyte Name	NEtFOSAA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	584.0 / 483.0	Result Table	20-1321_A
Internal Standard	d5-EtFOSAA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 6.25956e-4 x^2 + 0.05509 x + 0.00306$ ($r = 0.99978$) (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	LE52	L1	True	250.00	268.63	107.5
3	LE53	L2	True	500.00	430.63	86.1
4	LE54	L3	True	1000.00	1087.02	108.7
5	LE55	L4	True	2500.00	2433.97	97.4
6	LE56	L5	True	10000.00	10038.06	100.4
7	LE57	L6	True	25000.00	24990.76	100.0





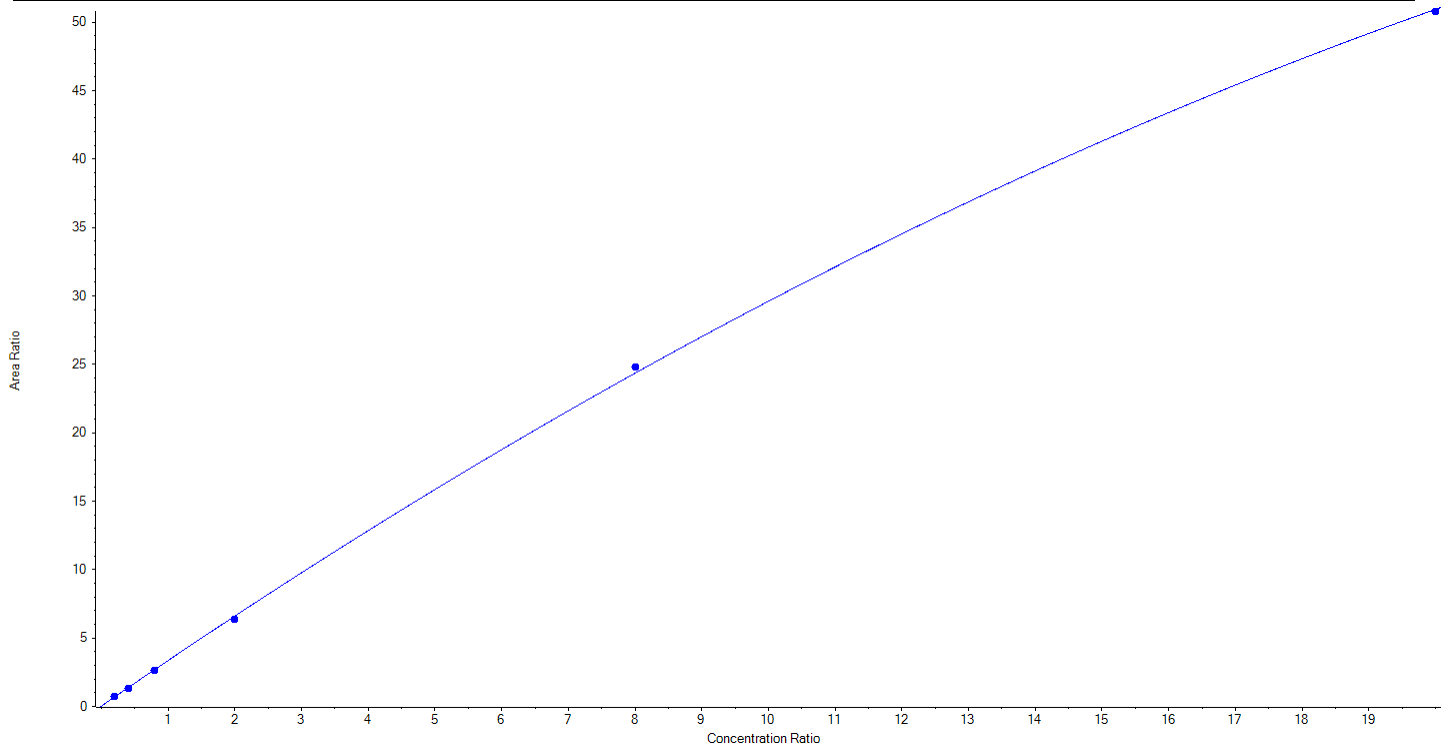
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Analyte Name	HFPO-DA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	285.0 / 169.0	Result Table	20-1321_A
Internal Standard	13C3-HFPO-DA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = -0.04124 x^2 + 3.37046 x + 0.03480$ ($r = 0.99980$) (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	LE52	L1	True	250.00	267.53	107.0
3	LE53	L2	True	500.00	491.23	98.3
4	LE54	L3	True	1000.00	968.86	96.9
5	LE55	L4	True	2500.00	2403.54	96.1
6	LE56	L5	True	10000.00	10214.45	102.1
7	LE57	L6	True	25000.00	24885.85	99.5





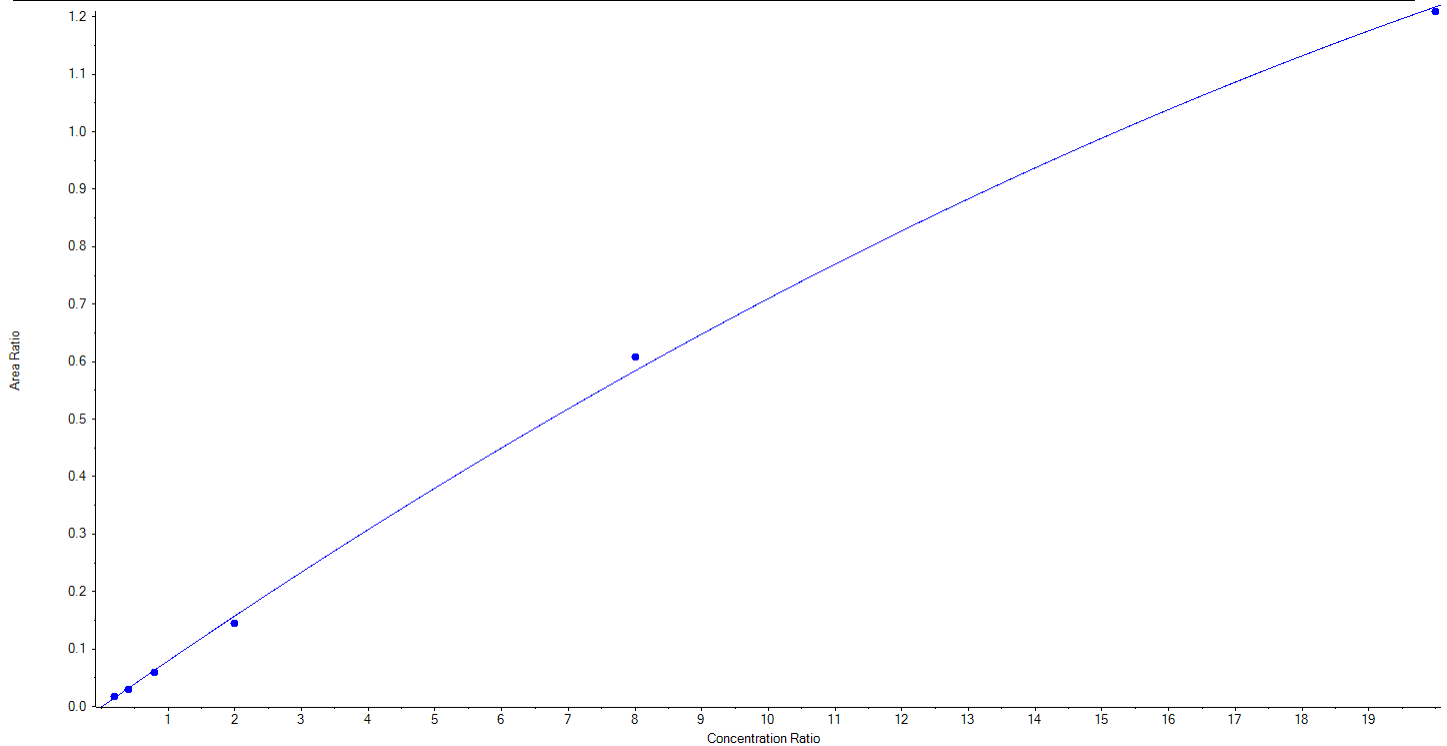
Calibration Summary Report

Created with Analyst Reporter
Printed: 17/11/2020 9:01:44 AM

Analyte Name	HFPO-DA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	285.0 / 118.8	Result Table	20-1321_A
Internal Standard	13C3-HFPO-DA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = -0.00102 x^2 + 0.08122 x + -7.74980e-4$ ($r = 0.99909$) (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	LE52	L1	True	250.00	287.80	115.1
3	LE53	L2	True	500.00	479.83	96.0
4	LE54	L3	True	1000.00	935.26	93.5
5	LE55	L4	True	2500.00	2293.38	91.7
6	LE56	L5	True	10000.00	10461.76	104.6
7	LE57	L6	True	25000.00	24751.81	99.0





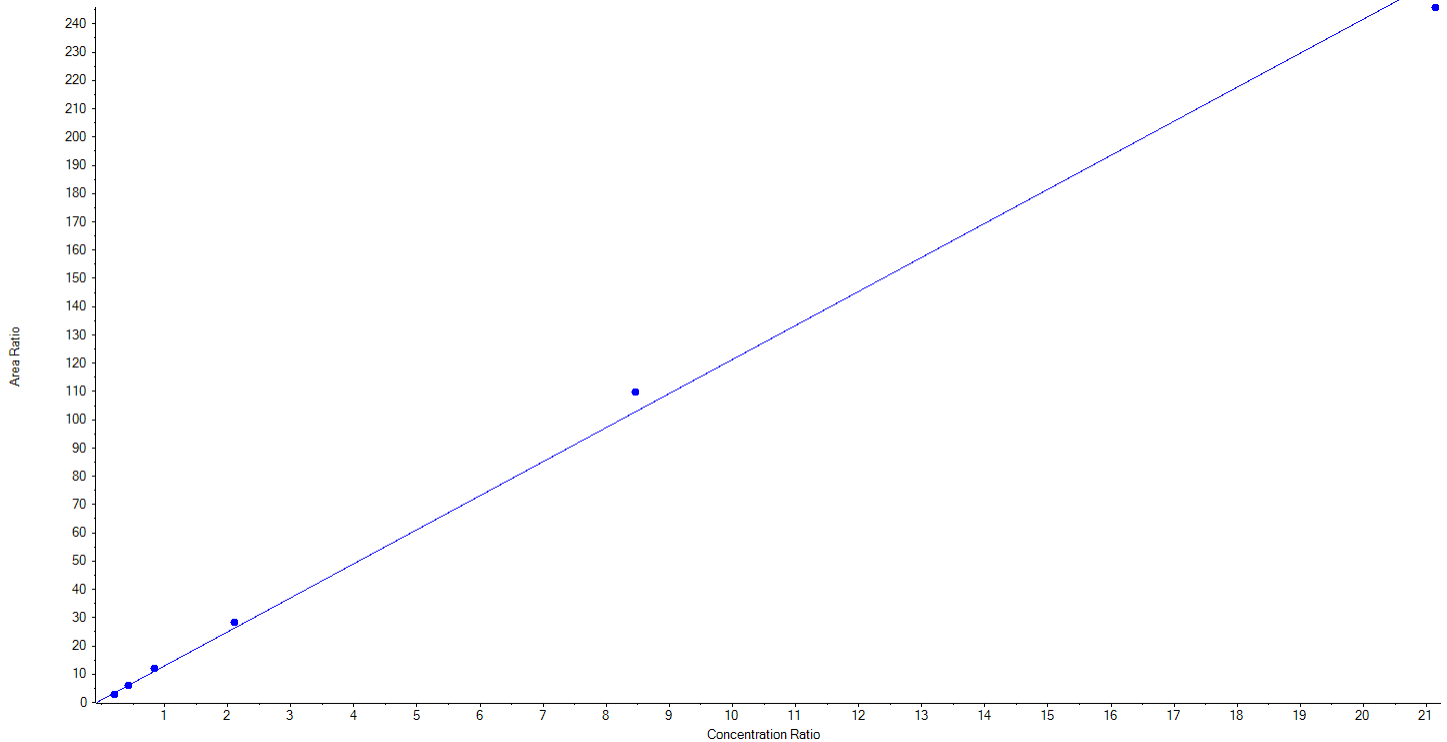
Calibration Summary Report

Created with Analyst Reporter
Printed: 17/11/2020 9:01:44 AM

Analyte Name	ADONA_1	Data File	AE_11122020_5-369.wiff
MRM Transition	377.0 / 251.0	Result Table	20-1321_A
Internal Standard	13C3-PFHxS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 12.03963x + 0.91598$ ($r = 0.99825$) (weighting: $1/x$) $r^2: 0.9965$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	250.00	197.06	78.8
3	LE53	L2	True	500.00	504.60	100.9
4	LE54	L3	True	1000.00	1091.80	109.2
5	LE55	L4	True	2500.00	2694.02	107.8
6	LE56	L5	True	10000.00	10710.71	107.1
7	LE57	L6	True	25000.00	24051.80	96.2





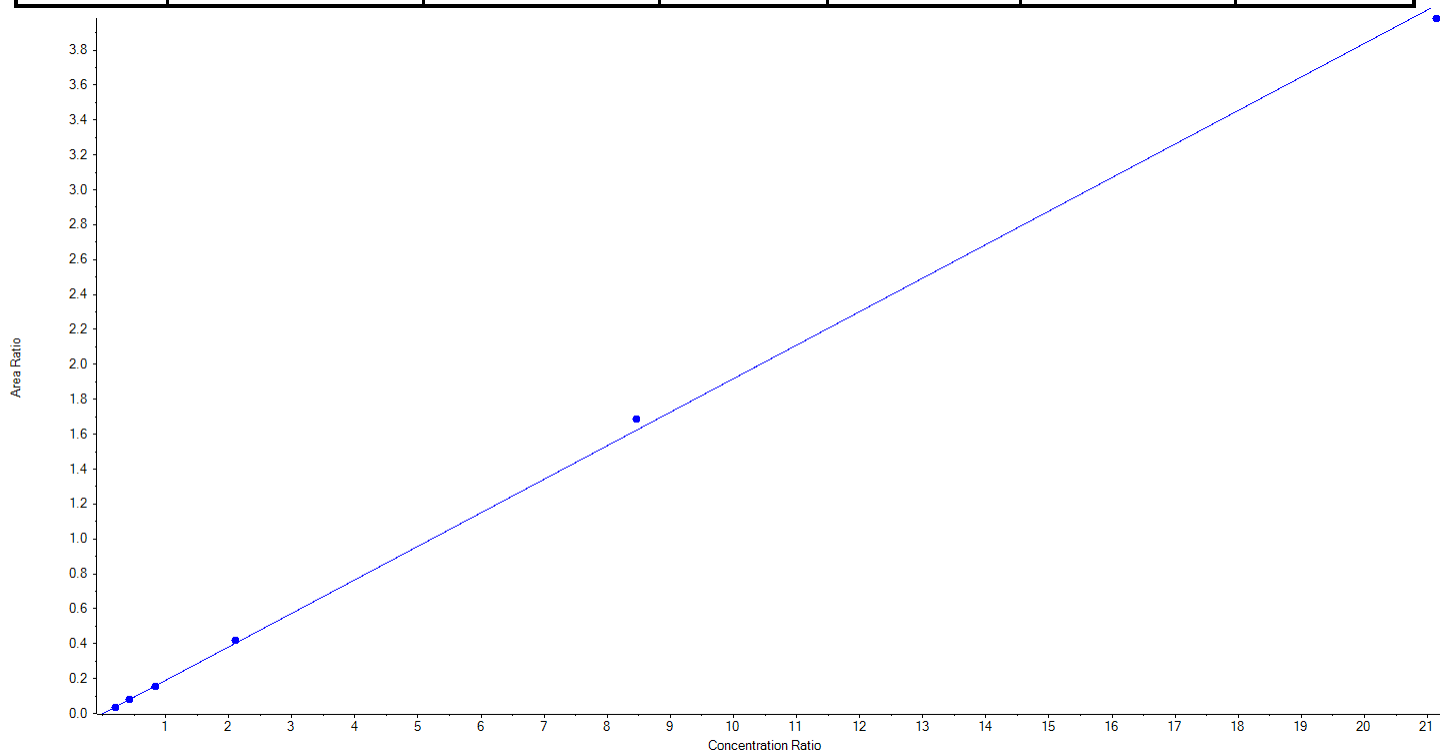
Calibration Summary Report

Created with Analyst Reporter
Printed: 17/11/2020 9:01:44 AM

Analyte Name	ADONA_2	Data File	AE_11122020_5-369.wiff
MRM Transition	377.0 / 85.0	Result Table	20-1321_A
Internal Standard	13C3-PFHxS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.19204 x + -0.00255$ ($r = 0.99956$) (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	LE52	L1	True	250.00	239.00	95.6
3	LE53	L2	True	500.00	501.67	100.3
4	LE54	L3	True	1000.00	977.90	97.8
5	LE55	L4	True	2500.00	2604.41	104.2
6	LE56	L5	True	10000.00	10398.87	104.0
7	LE57	L6	True	25000.00	24528.16	98.1





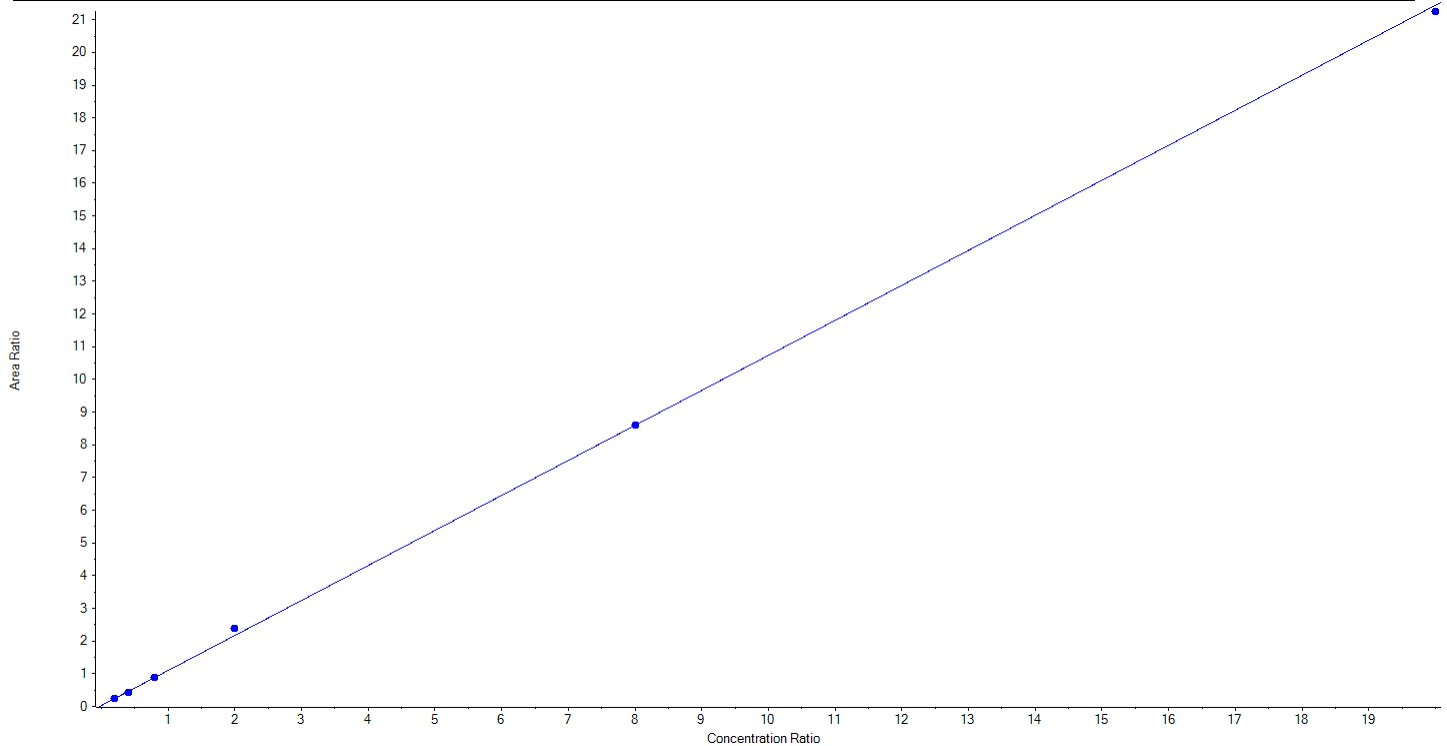
Calibration Summary Report

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Analyte Name	9CI-PF3ONS_1	Data File	AE_11122020_5-369.wiff
MRM Transition	531.0 / 351.0	Result Table	20-1321_A
Internal Standard	13C2-PFDoA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.07066x + 0.03109$ ($r = 0.99957$) (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	LE52	L1	True	250.00	233.51	93.4
3	LE53	L2	True	500.00	479.36	95.9
4	LE54	L3	True	1000.00	1015.55	101.6
5	LE55	L4	True	2500.00	2753.31	110.1
6	LE56	L5	True	10000.00	9993.74	99.9
7	LE57	L6	True	25000.00	24774.53	99.1





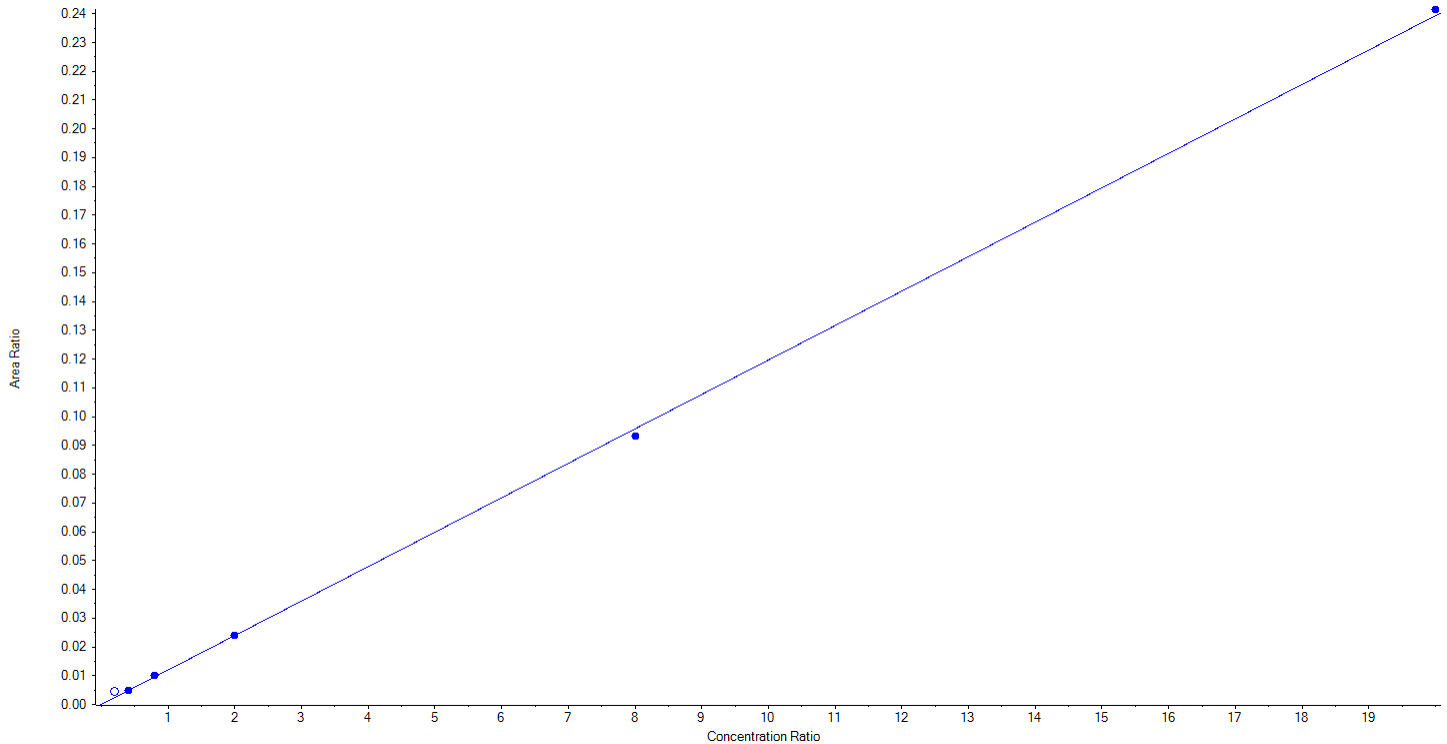
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Analyte Name	9CI-PF3ONS_2	Data File	AE_11122020_5-369.wiff
MRM Transition	531.0 / 83.0	Result Table	20-1321_A
Internal Standard	13C2-PFDoA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.01196 x + 5.19664e-5$ ($r = 0.99985$) (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	LE52	L1	False	250.00	469.17	187.7
3	LE53	L2	True	500.00	489.88	98.0
4	LE54	L3	True	1000.00	1031.49	103.2
5	LE55	L4	True	2500.00	2513.74	100.6
6	LE56	L5	True	10000.00	9744.33	97.4
7	LE57	L6	True	25000.00	25220.56	100.9





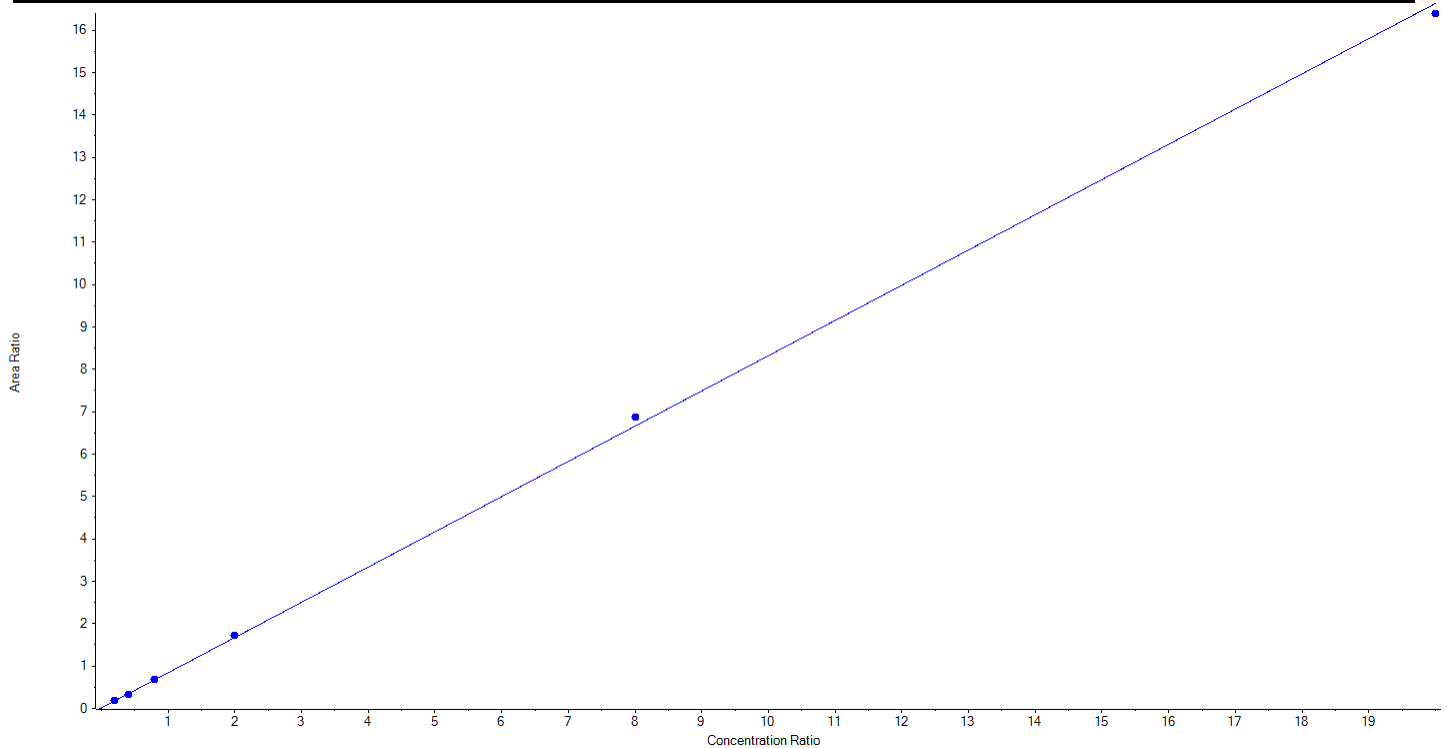
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Analyte Name	11Cl-pf3OUdS_1	Data File	AE_11122020_5-369.wiff
MRM Transition	631.0 / 451.0	Result Table	20-1321_A
Internal Standard	13C2-PFDoA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.83088x + 0.01307$ ($r = 0.99972$) (weighting: $1/x$) $r^2: 0.9994$

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	250.00	253.64	101.5
3	LE53	L2	True	500.00	465.52	93.1
4	LE54	L3	True	1000.00	1012.30	101.2
5	LE55	L4	True	2500.00	2562.34	102.5
6	LE56	L5	True	10000.00	10315.22	103.2
7	LE57	L6	True	25000.00	24640.98	98.6





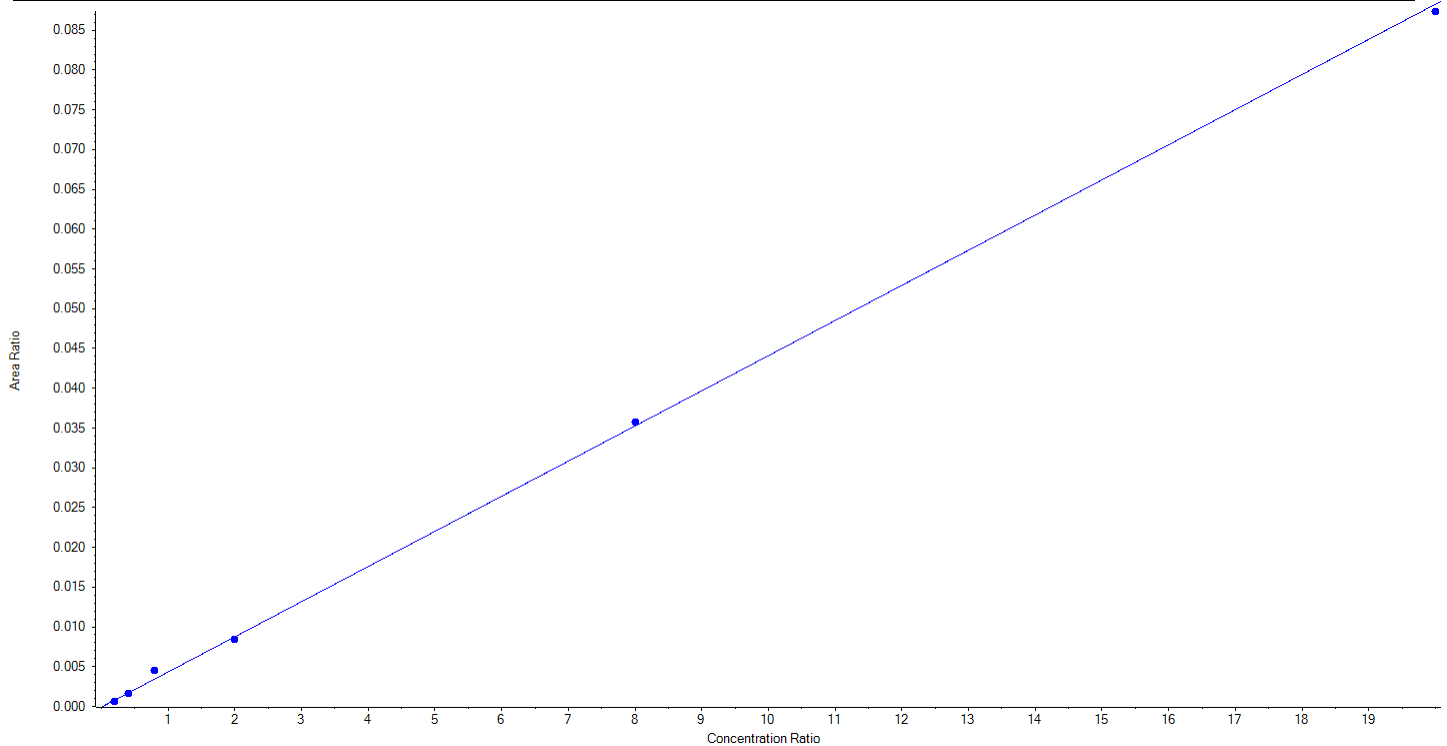
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Analyte Name	11Cl-pf3OUdS_2	Data File	AE_11122020_5-369.wiff
MRM Transition	631.0 / 83.0	Result Table	20-1321_A
Internal Standard	13C2-PFDoA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.00442 x + -7.63420e-5$ (r = 0.99838) (weighting: 1 / x) r²:0.9968

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	250.00	187.83	75.1
3	LE53	L2	True	500.00	496.65	99.3
4	LE54	L3	True	1000.00	1295.04	129.5
5	LE55	L4	True	2500.00	2392.04	95.7
6	LE56	L5	True	10000.00	10139.79	101.4
7	LE57	L6	True	25000.00	24738.65	99.0





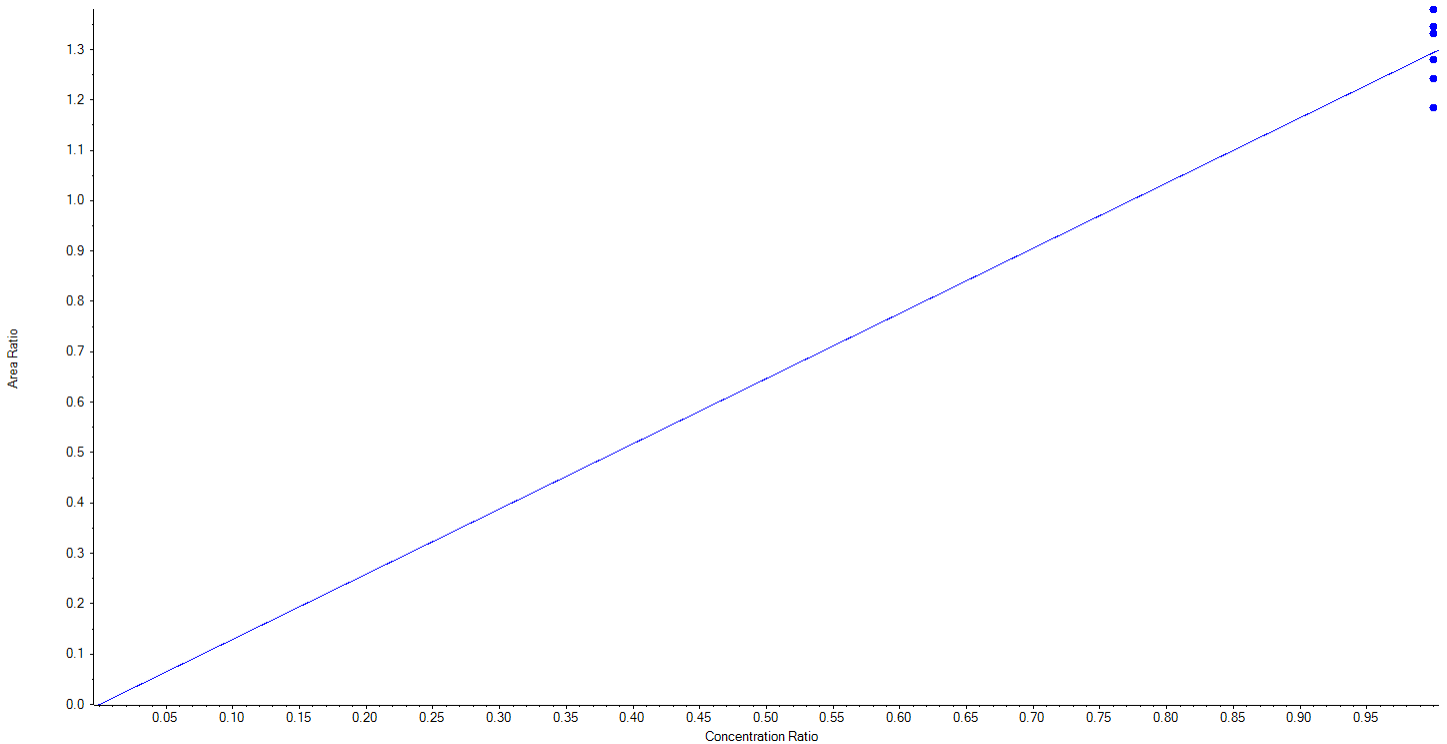
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Analyte Name	13C2-PFDoA	Data File	AE_11122020_5-369.wiff
MRM Transition	615.0 / 570.0	Result Table	20-1321_SIS_A
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.29394 x$ (std. dev. = 0.07242) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1250.00	1200.59	96.1
3	LE53	L2	True	1250.00	1300.31	104.0
4	LE54	L3	True	1250.00	1144.25	91.5
5	LE55	L4	True	1250.00	1286.23	102.9
6	LE56	L5	True	1250.00	1236.08	98.9
7	LE57	L6	True	1250.00	1332.54	106.6





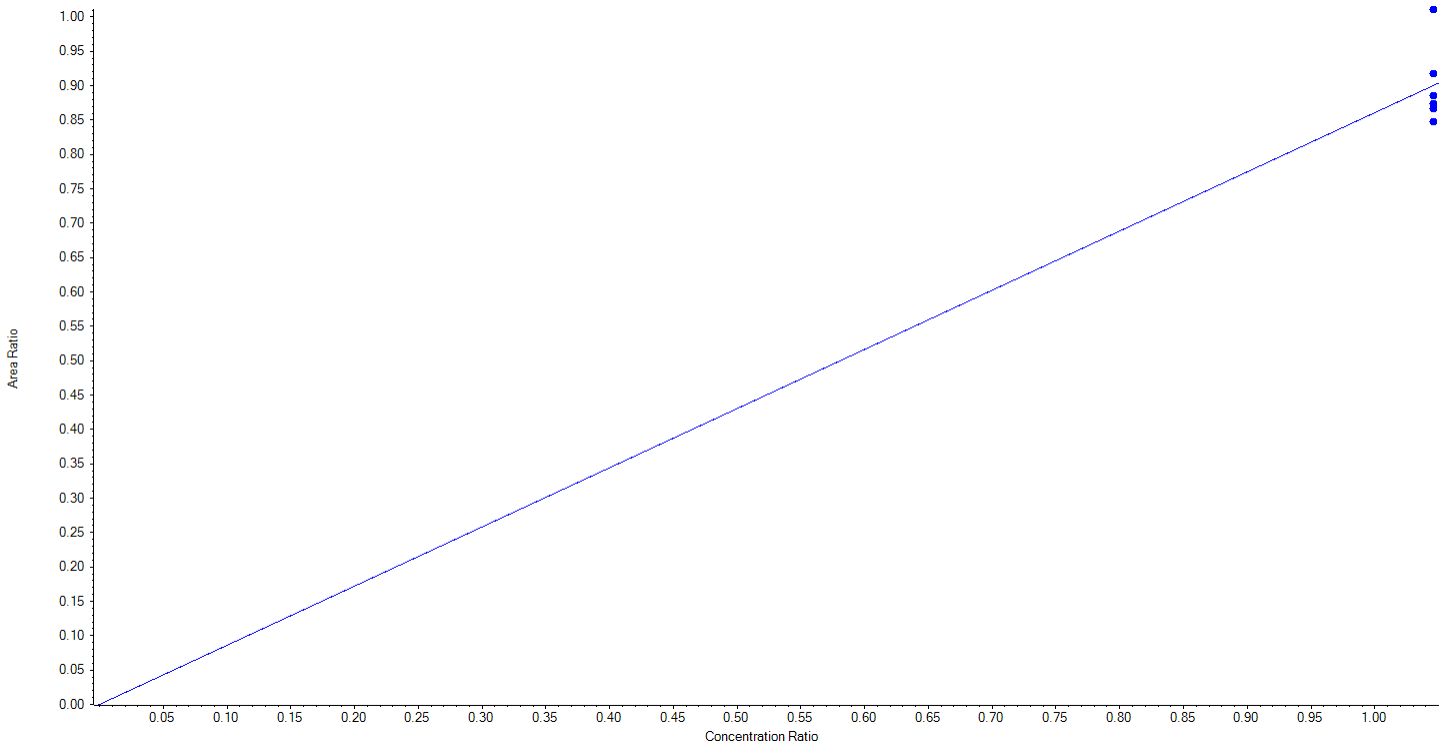
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Analyte Name	d3-MeFOSAA	Data File	AE_11122020_5-369.wiff
MRM Transition	573.0 / 419.0	Result Table	20-1321_SIS_A
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.86075 x$ (std. dev. = 0.05631) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1250.00	1212.58	97.0
3	LE53	L2	True	1250.00	1176.92	94.2
4	LE54	L3	True	1250.00	1202.92	96.2
5	LE55	L4	True	1250.00	1274.26	101.9
6	LE56	L5	True	1250.00	1230.05	98.4
7	LE57	L6	True	1250.00	1403.26	112.3





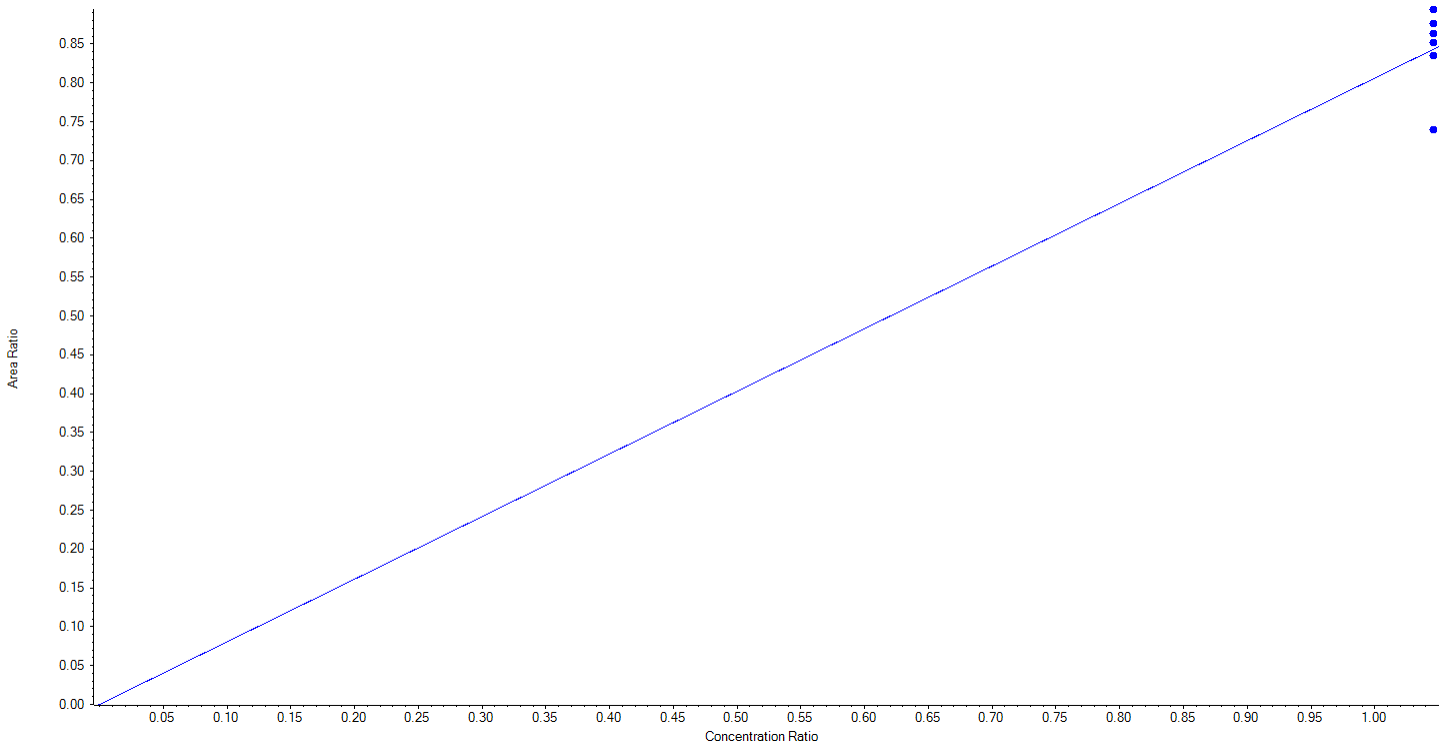
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Analyte Name	d5-EtFOSAA	Data File	AE_11122020_5-369.wiff
MRM Transition	589.0 / 419.0	Result Table	20-1321_SIS_A
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.80606 x$ (std. dev. = 0.05230) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1250.00	1262.14	101.0
3	LE53	L2	True	1250.00	1325.76	106.1
4	LE54	L3	True	1250.00	1279.43	102.4
5	LE55	L4	True	1250.00	1298.60	103.9
6	LE56	L5	True	1250.00	1237.79	99.0
7	LE57	L6	True	1250.00	1096.28	87.7





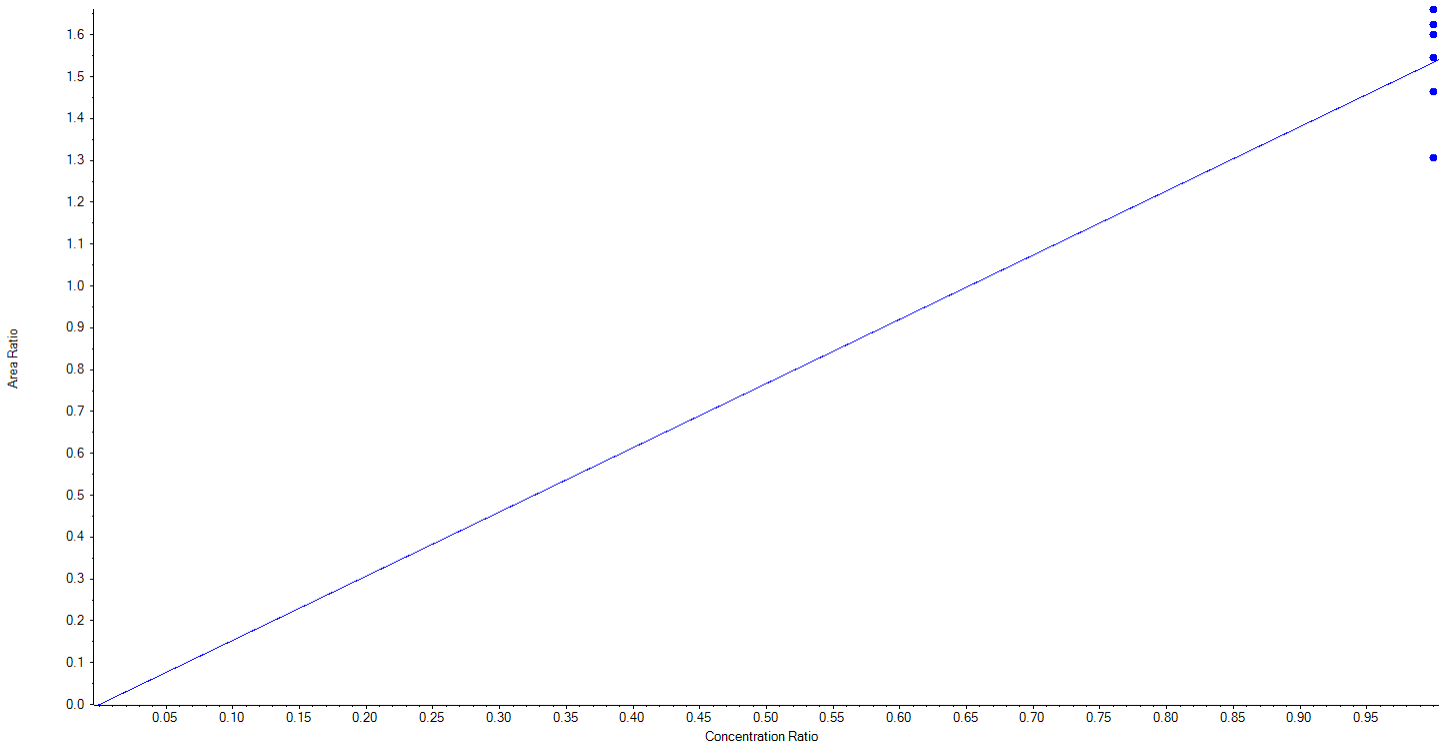
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Analyte Name	13C5-PFHxA	Data File	AE_11122020_5-369.wiff
MRM Transition	318.0 / 273.0	Result Table	20-1321_SIS_A
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.53395 x$ (std. dev. = 0.13035) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1250.00	1303.43	104.3
3	LE53	L2	True	1250.00	1324.49	106.0
4	LE54	L3	True	1250.00	1352.98	108.2
5	LE55	L4	True	1250.00	1260.12	100.8
6	LE56	L5	True	1250.00	1193.75	95.5
7	LE57	L6	True	1250.00	1065.22	85.2





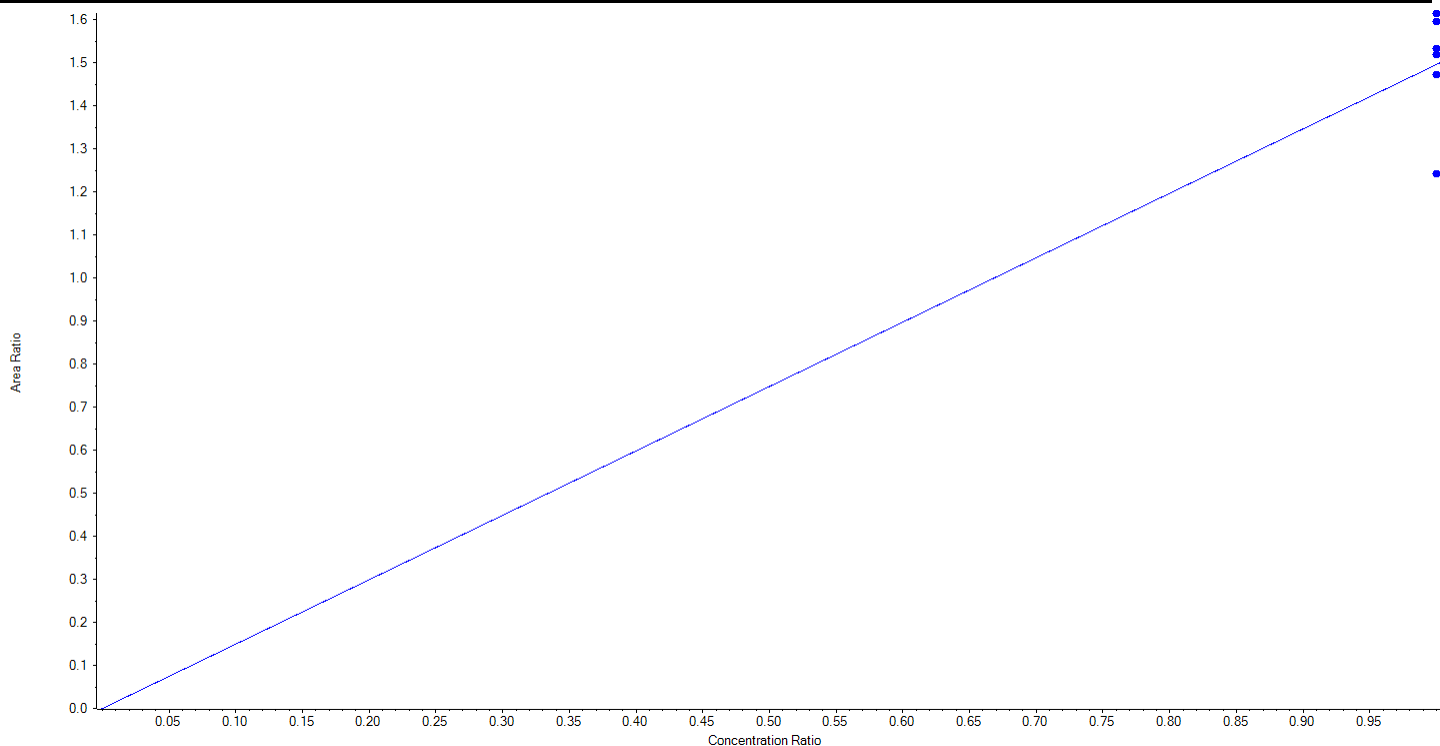
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Analyte Name	13C4-PFHpA	Data File	AE_11122020_5-369.wiff
MRM Transition	367.0 / 322.0	Result Table	20-1321_SIS_A
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.49621 x$ (std. dev. = 0.13478) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1250.00	1334.12	106.7
3	LE53	L2	True	1250.00	1279.97	102.4
4	LE54	L3	True	1250.00	1348.93	107.9
5	LE55	L4	True	1250.00	1268.91	101.5
6	LE56	L5	True	1250.00	1229.89	98.4
7	LE57	L6	True	1250.00	1038.18	83.1





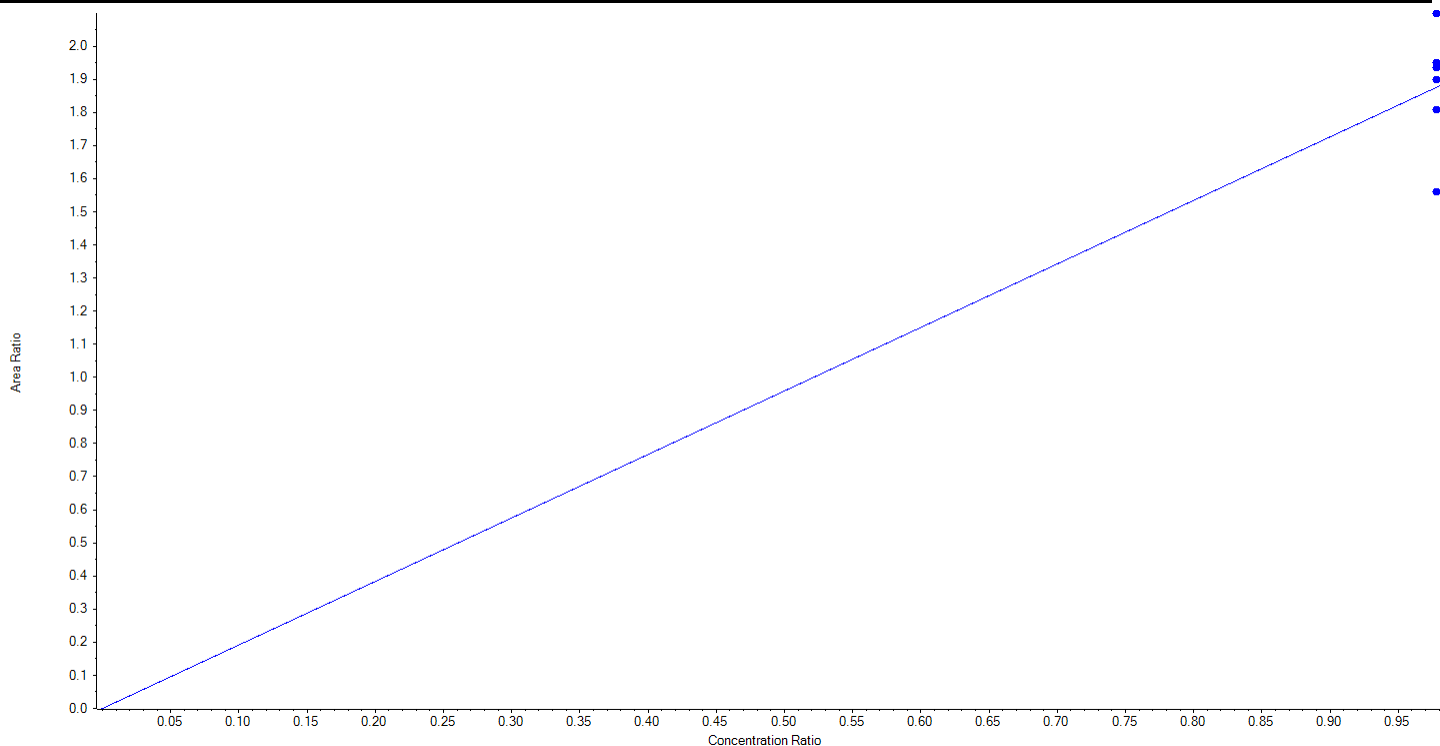
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Analyte Name	13C8-PFOA	Data File	AE_11122020_5-369.wiff
MRM Transition	421.0 / 376.0	Result Table	20-1321_SIS_A
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.91764 x$ (std. dev. = 0.18498) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1222.50	1367.79	111.9
3	LE53	L2	True	1222.50	1261.64	103.2
4	LE54	L3	True	1222.50	1238.60	101.3
5	LE55	L4	True	1222.50	1271.89	104.0
6	LE56	L5	True	1222.50	1178.05	96.4
7	LE57	L6	True	1222.50	1017.03	83.2





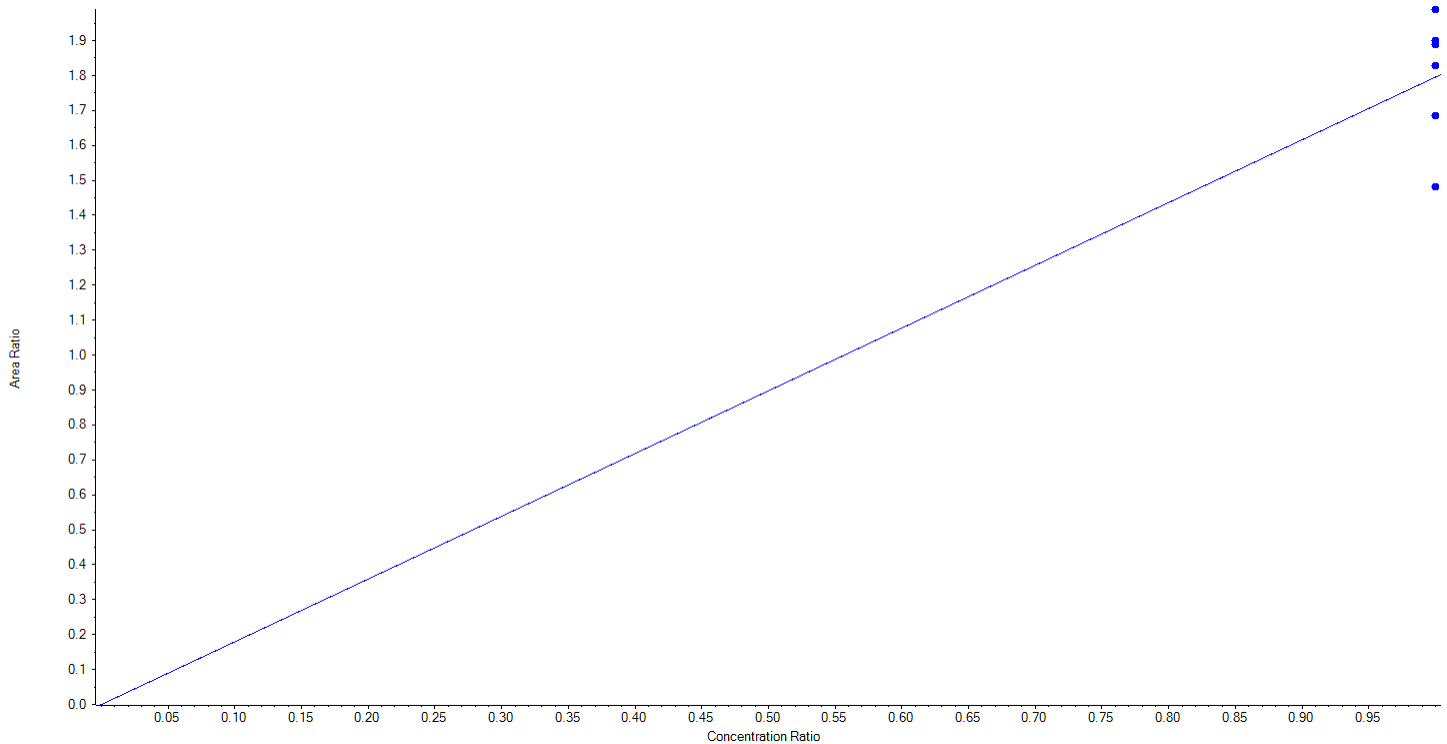
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Analyte Name	13C9-PFNA	Data File	AE_11122020_5-369.wiff
MRM Transition	472.0 / 427.0	Result Table	20-1321_SIS_A
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.79548 x$ (std. dev. = 0.18353) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1250.00	1323.46	105.9
3	LE53	L2	True	1250.00	1314.43	105.2
4	LE54	L3	True	1250.00	1384.59	110.8
5	LE55	L4	True	1250.00	1271.93	101.8
6	LE56	L5	True	1250.00	1174.01	93.9
7	LE57	L6	True	1250.00	1031.57	82.5





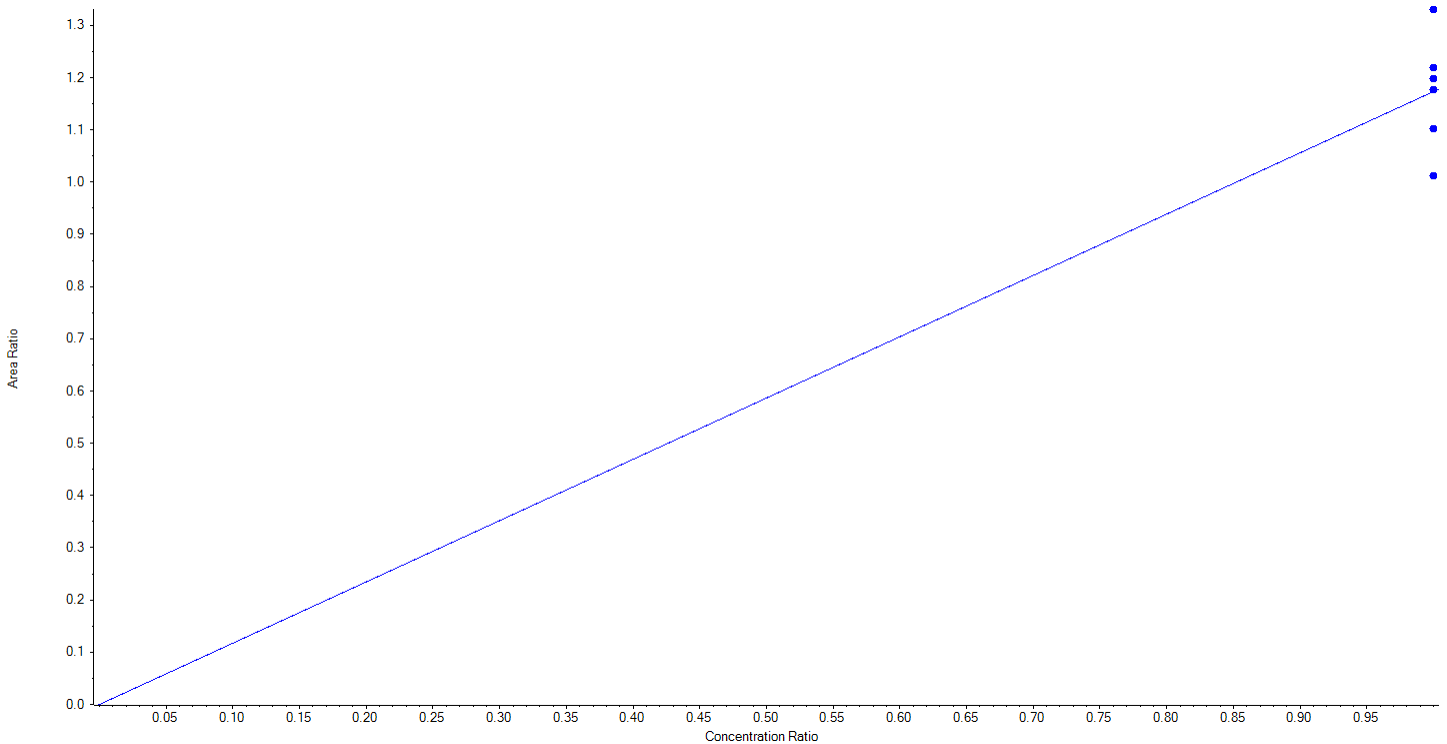
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Analyte Name	13C6-PFDA	Data File	AE_11122020_5-369.wiff
MRM Transition	519.0 / 474.0	Result Table	20-1321_SIS_A
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.17330 x$ (std. dev. = 0.10804) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1250.00	1276.28	102.1
3	LE53	L2	True	1250.00	1299.81	104.0
4	LE54	L3	True	1250.00	1253.74	100.3
5	LE55	L4	True	1250.00	1417.25	113.4
6	LE56	L5	True	1250.00	1078.74	86.3
7	LE57	L6	True	1250.00	1174.17	93.9





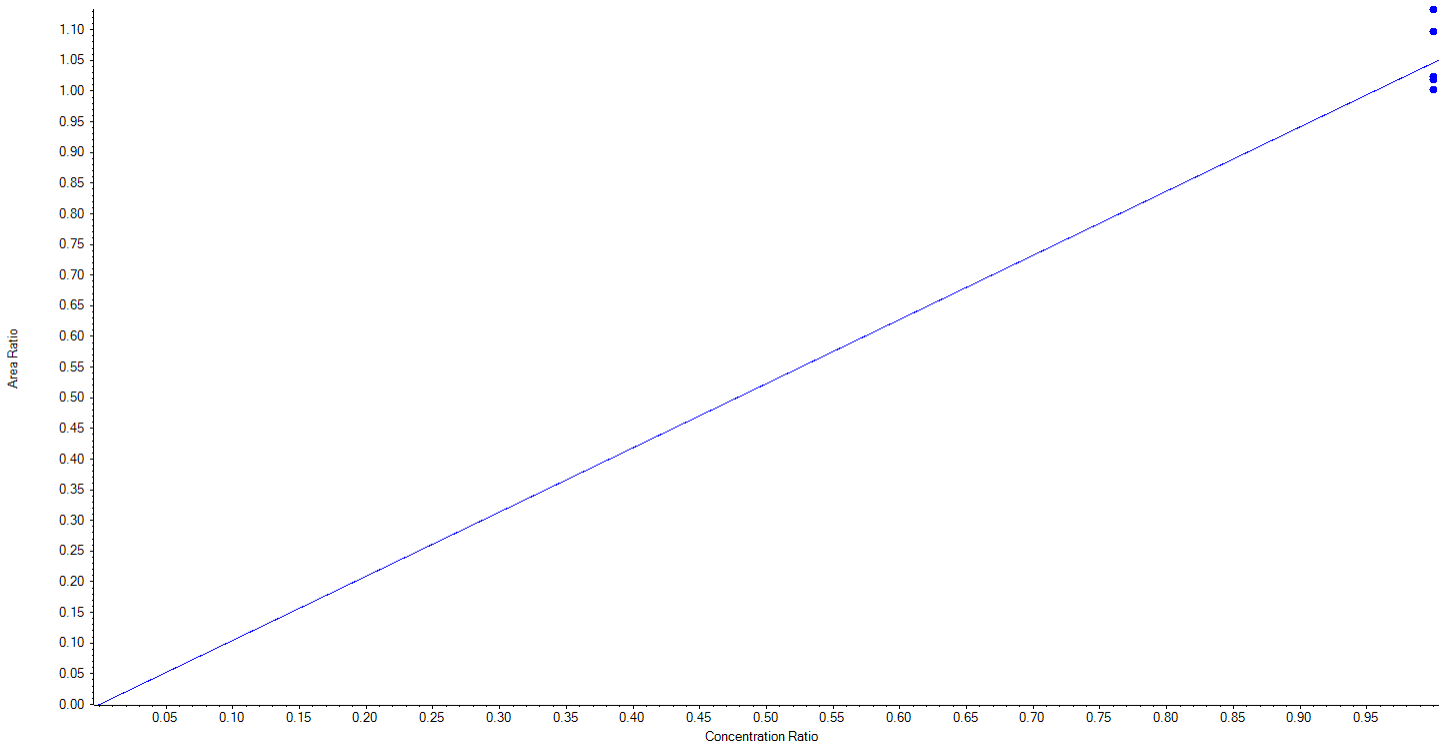
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Analyte Name	13C7-PFUnA	Data File	AE_11122020_5-369.wiff
MRM Transition	570.0 / 525.0	Result Table	20-1321_SIS_A
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.04631 x$ (std. dev. = 0.05527) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1250.00	1197.52	95.8
3	LE53	L2	True	1250.00	1311.05	104.9
4	LE54	L3	True	1250.00	1217.02	97.4
5	LE55	L4	True	1250.00	1353.61	108.3
6	LE56	L5	True	1250.00	1223.84	97.9
7	LE57	L6	True	1250.00	1196.95	95.8





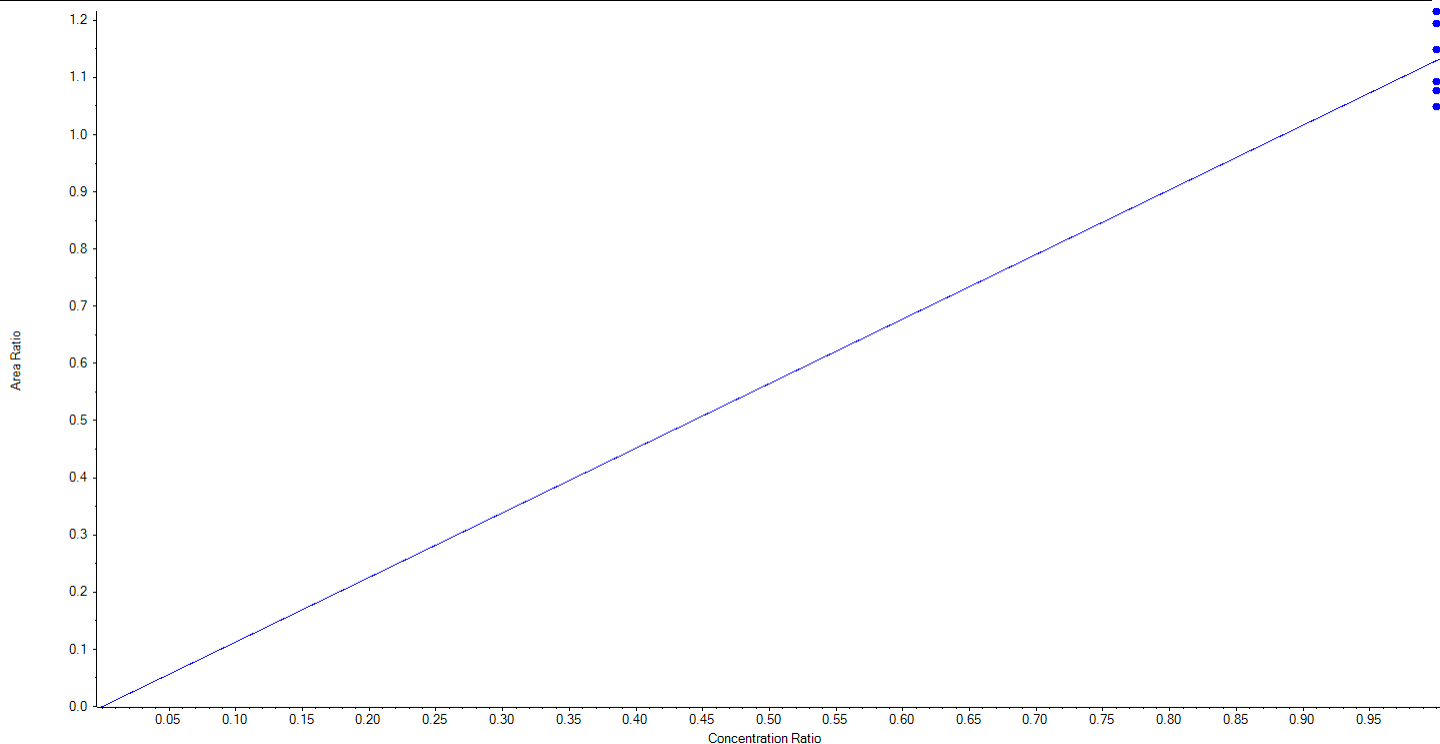
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Analyte Name	13C2-PFTeDA	Data File	AE_11122020_5-369.wiff
MRM Transition	715.0 / 670.0	Result Table	20-1321_SIS_A
Internal Standard	13C2-PFDA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.12949x$ (std. dev. = 0.06705) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1250.00	1192.23	95.4
3	LE53	L2	True	1250.00	1270.74	101.7
4	LE54	L3	True	1250.00	1160.67	92.9
5	LE55	L4	True	1250.00	1321.67	105.7
6	LE56	L5	True	1250.00	1209.69	96.8
7	LE57	L6	True	1250.00	1344.99	107.6





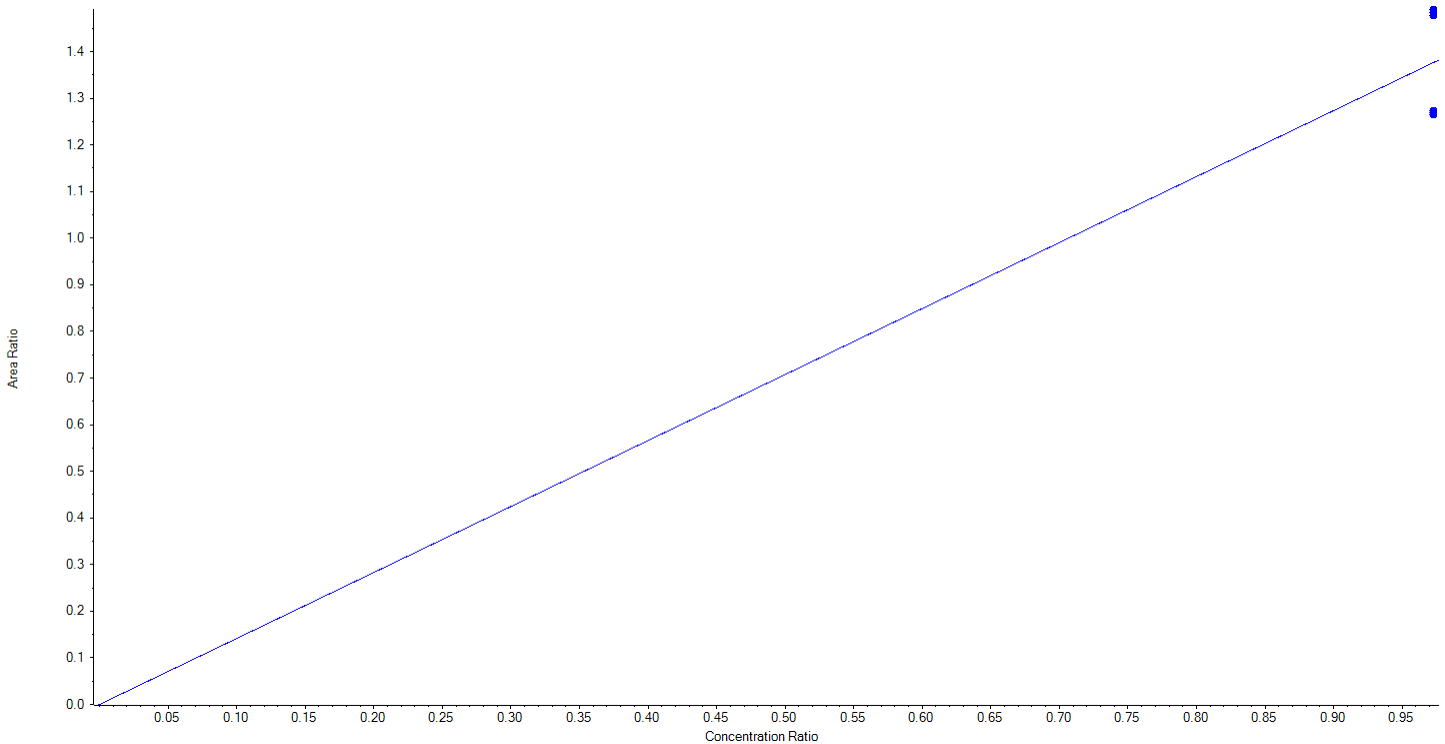
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Analyte Name	13C3-PFBS	Data File	AE_11122020_5-369.wiff
MRM Transition	302.0 / 99.0	Result Table	20-1321_SIS_A
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.41483 x$ (std. dev. = 0.12062) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1162.50	1075.48	92.5
3	LE53	L2	True	1162.50	1068.98	92.0
4	LE54	L3	True	1162.50	1071.87	92.2
5	LE55	L4	True	1162.50	1247.05	107.3
6	LE56	L5	True	1162.50	1253.09	107.8
7	LE57	L6	True	1162.50	1258.53	108.3





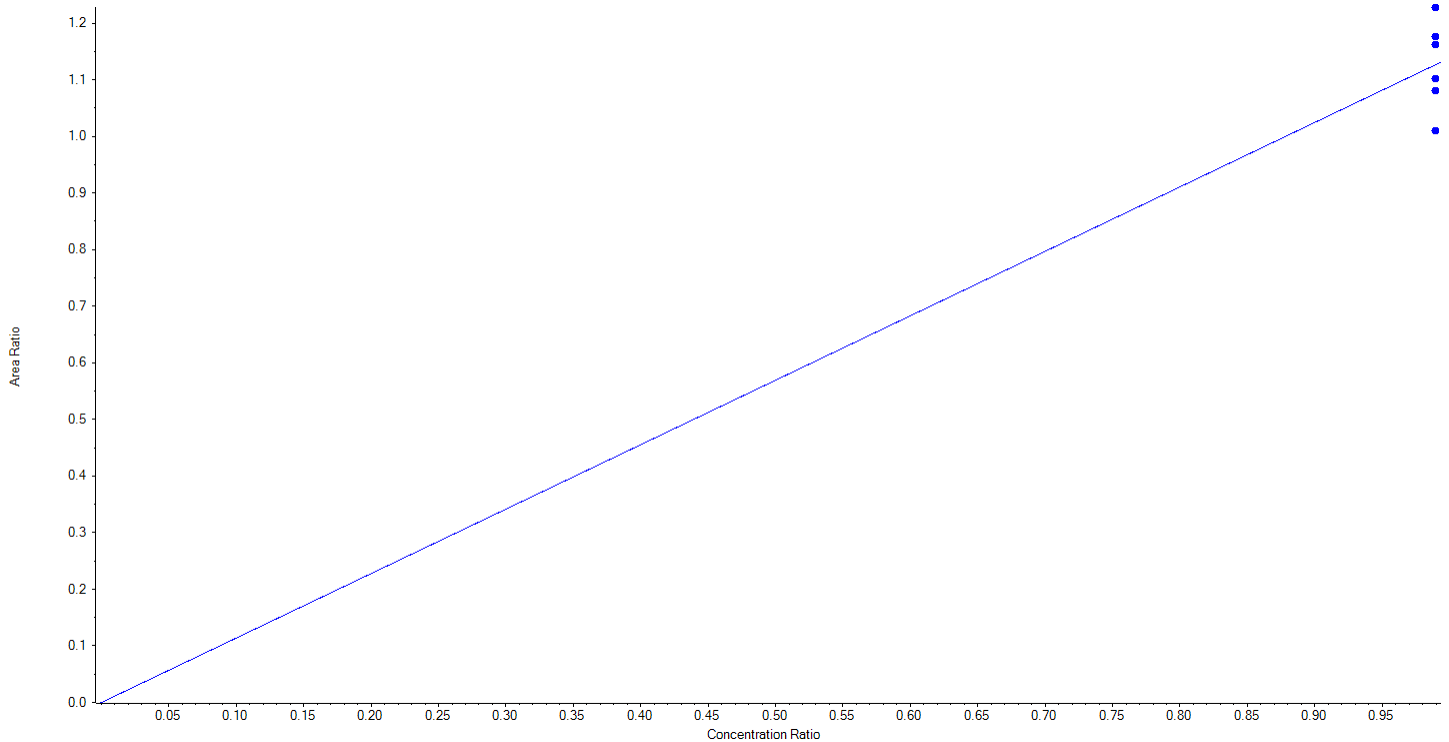
Calibration Summary Report

Created with Analyst Reporter
Printed: 13/11/2020 3:00:25 PM

Analyte Name	13C3-PFHxS	Data File	AE_11122020_5-369.wiff
MRM Transition	402.0 / 99.0	Result Table	20-1321_SIS_A
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.13844 x$ (std. dev. = 0.07884) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1182.50	1235.15	104.5
3	LE53	L2	True	1182.50	1135.19	96.0
4	LE54	L3	True	1182.50	1059.46	89.6
5	LE55	L4	True	1182.50	1156.19	97.8
6	LE56	L5	True	1182.50	1220.46	103.2
7	LE57	L6	True	1182.50	1288.56	109.0





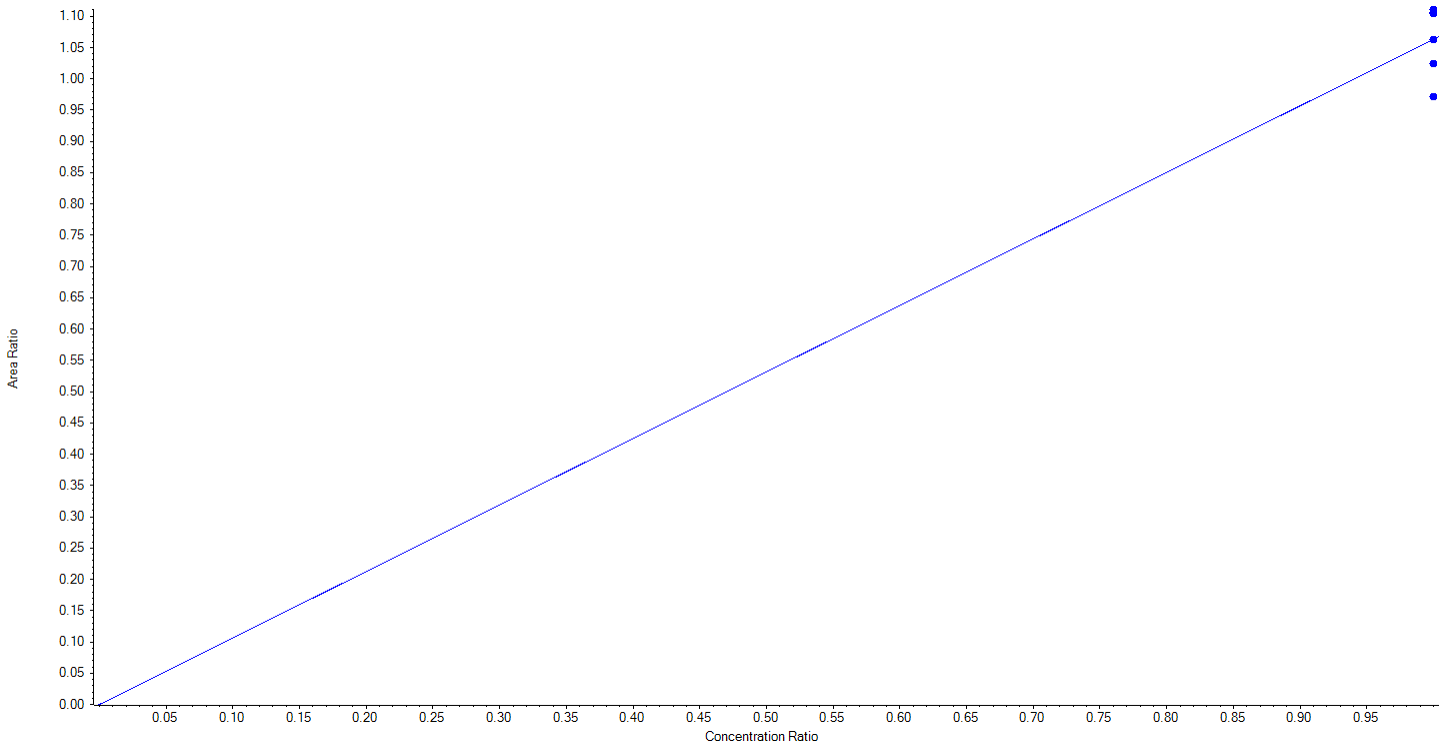
Calibration Summary Report

Created with Analyst Reporter
Printed: 13/11/2020 3:00:25 PM

Analyte Name	13C8-PFOS	Data File	AE_11122020_5-369.wiff
MRM Transition	507.0 / 99.0	Result Table	20-1321_SIS_A
Internal Standard	13C4-PFOS	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 1.06301 x$ (std. dev. = 0.05583) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1195.00	1150.92	96.3
3	LE53	L2	True	1195.00	1242.51	104.0
4	LE54	L3	True	1195.00	1195.04	100.0
5	LE55	L4	True	1195.00	1092.32	91.4
6	LE56	L5	True	1195.00	1248.53	104.5
7	LE57	L6	True	1195.00	1240.70	103.8





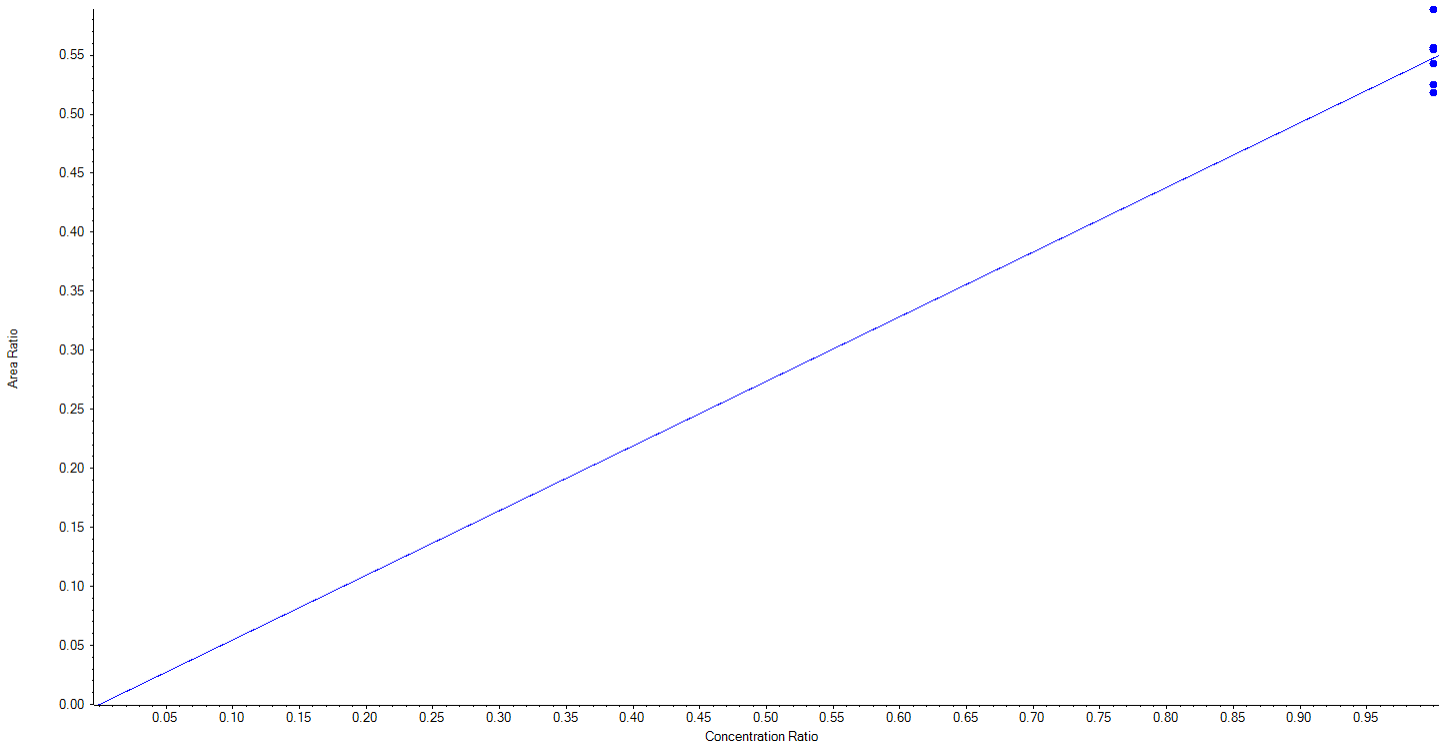
Calibration Summary Report

Created with Analyst Reporter
Printed: 13/11/2020 3:00:25 PM

Analyte Name	13C3-HFPO-DA	Data File	AE_11122020_5-369.wiff
MRM Transition	287.0 / 169.0	Result Table	20-1321_SIS_A
Internal Standard	13C2-PFOA	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Acquisition Method	5-369.dam

Regression Equation: $y = 0.54752 x$ (std. dev. = 0.02539) (weighting: None) r^2 : N/A

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	LE52	L1	True	1250.00	1198.39	95.9
3	LE53	L2	True	1250.00	1182.78	94.6
4	LE54	L3	True	1250.00	1238.56	99.1
5	LE55	L4	True	1250.00	1270.70	101.7
6	LE56	L5	True	1250.00	1265.69	101.3
7	LE57	L6	True	1250.00	1343.88	107.5



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	11/10/2020 8:07:44 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	180525.89	208.83	4396.7	False	13C3-PFBS	269776.85	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	56307.84	205.67	1207.5	False	13C3-PFBS	269776.85	1162.50	PFBS	0.312	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	363692.55	248.20	565.8	False	13C5-PFHxA	1192534.54	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.59	20871.72	229.31	443.0	False	13C5-PFHxA	1192534.54	1250.00	PFHxA	0.057	0.062	✓
PFHpA_1	363.0 / 319.0	1.92	272308.06	237.41	461.7	False	13C4-PFHpA	1280987.59	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.92	8996.40	265.87	520.1	False	13C4-PFHpA	1280987.59	1250.00	PFHpA	0.033	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	178367.35	218.55	710.5	False	13C3-PFHxS	213895.45	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	62213.20	219.93	822.7	False	13C3-PFHxS	213895.45	1182.50	PFHxS	0.349	0.359	✓
PFOA_1	413.0 / 369.0	2.28	320892.20	234.13	478.3	False	13C8-PFOA	1512823.31	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.28	24708.16	202.09	565.8	False	13C8-PFOA	1512823.31	1222.50	PFOA	0.077	0.093	✓
PFNA_1	463.0 / 419.0	2.65	254451.84	204.48	366.9	False	13C9-PFNA	1368415.81	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	92880.34	234.57	30610.9	False	13C9-PFNA	1368415.81	1250.00	PFNA	0.365	0.338	✓
PFOS_1	499.0 / 80.0	2.65	176869.24	243.61	385.6	False	13C8-PFOS	213392.02	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.65	37643.98	228.45	8396.9	False	13C8-PFOS	213392.02	1195.00	PFOS	0.213	0.203	✓
PFDA_1	513.0 / 469.0	3.00	281860.97	239.54	352.2	False	13C6-PFDA	1325592.91	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	14970.37	245.29	953.7	False	13C6-PFDA	1325592.91	1250.00	PFDA	0.053	0.059	✓
PFUnA_1	563.0 / 519.0	3.33	292431.79	226.20	601.7	False	13C7-PFUnA	1156549.78	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	10733.22	189.89	864.4	False	13C7-PFUnA	1156549.78	1250.00	PFUnA	0.037	0.061	✓
PFDoA_1	613.0 / 569.0	3.61	299497.65	226.79	540.4	False	13C2-PFDoA	1397270.36	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.61	34036.76	242.69	1274.9	False	13C2-PFDoA	1397270.36	1250.00	PFDoA	0.114	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.87	262541.95	202.17	1017.6	False	13C2-PFTTeDA	1238928.79	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.87	17385.81	235.68	999.1	False	13C2-PFTTeDA	1238928.79	1250.00	PFTTrDA	0.066	0.070	✓
PFTTeDA_1	713.0 / 669.0	4.10	296293.16	227.16	1401.2	False	13C2-PFTTeDA	1238928.79	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.10	15796.72	248.24	943.9	False	13C2-PFTTeDA	1238928.79	1250.00	PFTTeDA	0.053	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.15	25295.72	251.32	2183825.6	False	d3-MeFOSAA	181109.05	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.15	29006.19	218.24	2519.0	False	d3-MeFOSAA	181109.05	1250.00	NMeFOSAA	1.147	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.32	39577.13	271.06	1368.1	False	d5-EtFOSAA	175343.70	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.35	2046.55	269.44	10156.6	True	d5-EtFOSAA	175343.70	1250.00	NEtFOSAA	0.052	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.67	233628.30	230.82	1243.1	True	13C3-HFPO-DA	443426.79	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	7211.77	307.12	2921.0	False	13C3-HFPO-DA	443426.79	1250.00	HFPO-DA	0.031	0.023	✓
ADONA_1	377.0 / 251.0	1.95	618499.97	218.26	3017.8	False	13C3-PFHxS	213895.45	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.95	10287.42	248.98	1434318.1	False	13C3-PFHxS	213895.45	1182.50	ADONA	0.017	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	322984.43	270.31	688.1	False	13C2-PFDoA	1397270.36	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	3920.14	309.62	522.2	False	13C2-PFDoA	1397270.36	1250.00	9CI-PF3ONS	0.012	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	231692.26	250.98	1127.4	False	13C2-PFDoA	1397270.36	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.49	835.64	236.46	78.1	False	13C2-PFDoA	1397270.36	1250.00	11Cl-PF3OUdS	0.004	0.005	✓



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	11/10/2020 8:18:11 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	353094.00	534.34	6474.0	False	13C3-PFBS	267170.39	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	114044.30	524.87	2302.8	False	13C3-PFBS	267170.39	1162.50	PFBS	0.323	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	663844.97	538.06	1035.8	False	13C5-PFHxA	1143611.89	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	44749.79	594.83	1001.9	False	13C5-PFHxA	1143611.89	1250.00	PFHxA	0.067	0.062	✓
PFHpA_1	363.0 / 319.0	1.92	494290.94	515.86	598.6	False	13C4-PFHpA	1201094.34	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	16395.24	570.18	827.2	False	13C4-PFHpA	1201094.34	1250.00	PFHpA	0.033	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	377328.73	593.65	1157.7	False	13C3-PFHxS	208989.04	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	136055.21	601.05	709.4	False	13C3-PFHxS	208989.04	1182.50	PFHxS	0.361	0.359	✓
PFOA_1	413.0 / 369.0	2.28	601191.39	521.41	608.9	False	13C8-PFOA	1445094.33	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.28	55095.45	522.04	1066.6	False	13C8-PFOA	1445094.33	1222.50	PFOA	0.092	0.093	✓
PFNA_1	463.0 / 419.0	2.65	538563.60	517.98	501.8	False	13C9-PFNA	1362384.37	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	185043.00	531.13	1298.6	False	13C9-PFNA	1362384.37	1250.00	PFNA	0.344	0.338	✓
PFOS_1	499.0 / 80.0	2.65	355620.89	555.51	634.5	False	13C8-PFOS	195940.55	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.65	75259.00	568.18	4783.7	False	13C8-PFOS	195940.55	1195.00	PFOS	0.212	0.203	✓
PFDA_1	513.0 / 469.0	3.01	560370.57	524.78	440.1	False	13C6-PFDA	1298488.68	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.01	29983.14	494.75	265382.8	False	13C6-PFDA	1298488.68	1250.00	PFDA	0.054	0.059	✓
PFUnA_1	563.0 / 519.0	3.33	556764.09	513.60	589.0	False	13C7-PFUnA	1110106.35	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.33	39967.53	642.73	2331.0	False	13C7-PFUnA	1110106.35	1250.00	PFUnA	0.072	0.061	✓
PFDoA_1	613.0 / 569.0	3.62	593075.54	551.21	792.0	False	13C2-PFDoA	1300774.40	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.62	65181.23	526.36	1198.8	False	13C2-PFDoA	1300774.40	1250.00	PFDoA	0.110	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.87	518663.67	541.55	1417.9	False	13C2-PFTTeDA	1186891.77	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.87	34126.79	529.39	1107.2	False	13C2-PFTTeDA	1186891.77	1250.00	PFTTrDA	0.066	0.070	✓
PFTTeDA_1	713.0 / 669.0	4.11	578031.49	536.50	2003.1	False	13C2-PFTTeDA	1186891.77	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.10	31071.68	535.85	1893.1	False	13C2-PFTTeDA	1186891.77	1250.00	PFTTeDA	0.054	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.15	61292.99	567.47	266771.6	False	d3-MeFOSAA	176662.72	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.15	71160.21	591.99	661.3	False	d3-MeFOSAA	176662.72	1250.00	NMeFOSAA	1.161	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.32	70263.83	505.91	1348.3	False	d5-EtFOSAA	167969.76	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.32	4352.45	575.43	1564.9	True	d5-EtFOSAA	167969.76	1250.00	NEtFOSAA	0.062	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.67	494716.86	542.31	1999.5	True	13C3-HFPO-DA	445736.14	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	9374.82	427.69	2574.9	False	13C3-HFPO-DA	445736.14	1250.00	HFPO-DA	0.019	0.023	✓
ADONA_1	377.0 / 251.0	1.95	1228973.97	548.78	10140.9	False	13C3-PFHxS	208989.04	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	17202.88	491.84	7699.3	False	13C3-PFHxS	208989.04	1182.50	ADONA	0.014	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	613263.48	530.01	1022.6	False	13C2-PFDoA	1300774.40	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	5578.87	466.31	655.3	False	13C2-PFDoA	1300774.40	1250.00	9CI-PF3ONS	0.009	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	467485.22	552.86	1216.5	False	13C2-PFDoA	1300774.40	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	2535.93	637.11	241.8	False	13C2-PFDoA	1300774.40	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

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	11/10/2020 8:28:38 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	641902.44	1014.47	10077.3	False	13C3-PFBS	281045.64	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	214445.54	1016.76	2854.1	False	13C3-PFBS	281045.64	1162.50	PFBS	0.334	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	1207542.60	981.51	1055.4	False	13C5-PFHxA	1205184.79	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	73719.06	967.28	1268.9	False	13C5-PFHxA	1205184.79	1250.00	PFHxA	0.061	0.062	✓
PFHpA_1	363.0 / 319.0	1.92	926941.81	955.07	786.1	False	13C4-PFHpA	1277912.51	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	24914.68	838.61	25088.4	False	13C4-PFHpA	1277912.51	1250.00	PFHpA	0.027	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	630100.88	950.95	1078.0	False	13C3-PFHxS	230725.58	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	222767.83	933.84	1852.4	False	13C3-PFHxS	230725.58	1182.50	PFHxS	0.354	0.359	✓
PFOA_1	413.0 / 369.0	2.28	1097849.32	951.63	623.8	False	13C8-PFOA	1521883.73	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	110578.87	1029.03	17153.8	False	13C8-PFOA	1521883.73	1222.50	PFOA	0.101	0.093	✓
PFNA_1	463.0 / 419.0	2.64	1061110.67	1027.95	653.1	False	13C9-PFNA	1441954.73	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	344987.30	982.53	3567.7	False	13C9-PFNA	1441954.73	1250.00	PFNA	0.325	0.338	✓
PFOS_1	499.0 / 80.0	2.64	677634.91	953.32	827.8	False	13C8-PFOS	220536.30	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	141130.84	986.71	1335.5	False	13C8-PFOS	220536.30	1195.00	PFOS	0.208	0.203	✓
PFDA_1	513.0 / 469.0	2.99	995009.57	942.25	732.2	False	13C6-PFDA	1323197.98	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	64240.70	1033.09	13937.7	False	13C6-PFDA	1323197.98	1250.00	PFDA	0.065	0.059	✓
PFOA_1	563.0 / 519.0	3.31	1053159.33	1039.13	954.3	False	13C7-PFOA	1101304.54	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.31	63772.98	1013.90	4546.5	False	13C7-PFOA	1101304.54	1250.00	PFOA	0.061	0.061	✓
PFOA_3	613.0 / 569.0	3.60	1074108.55	907.33	1195.4	False	13C2-PFOA	1489449.58	1250.00	PFOA			
PFOA_4	613.0 / 319.0	3.59	129857.29	934.80	1813.0	False	13C2-PFOA	1489449.58	1250.00	PFOA	0.121	0.117	✓
PFTeDA_1	663.0 / 619.0	3.85	908965.45	959.63	1645.6	False	13C2-PFTeDA	1272569.05	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.85	62329.06	932.95	1604.9	False	13C2-PFTeDA	1272569.05	1250.00	PFTeDA	0.069	0.070	✓
PFTeDA_3	713.0 / 669.0	4.09	1059462.66	967.74	2333.8	False	13C2-PFTeDA	1272569.05	1250.00	PFTeDA			
PFTeDA_4	713.0 / 169.0	4.08	57553.50	943.80	1957.2	False	13C2-PFTeDA	1272569.05	1250.00	PFTeDA	0.054	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.13	115222.71	933.45	253850.6	False	d3-MeFOSAA	196328.30	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	124289.86	946.67	5296.9	False	d3-MeFOSAA	196328.30	1250.00	NMeFOSAA	1.079	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.30	131636.07	917.60	39591.0	False	d5-EtFOSAA	174136.93	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.30	6134.78	775.63	252.6	False	d5-EtFOSAA	174136.93	1250.00	NEtFOSAA	0.047	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.67	943143.53	977.28	3080.4	True	13C3-HFPO-DA	491619.35	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	18942.30	871.42	2655.8	False	13C3-HFPO-DA	491619.35	1250.00	HFPO-DA	0.020	0.023	✓
ADONA_1	377.0 / 251.0	1.95	2277716.39	990.15	6380.8	False	13C3-PFHxS	230725.58	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.95	37403.81	1058.21	1628.3	False	13C3-PFHxS	230725.58	1182.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.84	1249564.23	927.16	1378.1	False	13C2-PFDoA	1489449.58	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.84	12292.50	885.08	1334.3	False	13C2-PFDoA	1489449.58	1250.00	9CI-PF3ONS	0.010	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	863034.24	896.03	1867.0	False	13C2-PFDoA	1489449.58	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	3664.85	788.59	504.2	False	13C2-PFDoA	1489449.58	1250.00	11Cl-PF3OUdS	0.004	0.005	✓

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	11/10/2020 8:39:05 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	1618498.67	2664.11	11901.9	False	13C3-PFBS	289509.00	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	552894.19	2694.74	4731.4	False	13C3-PFBS	289509.00	1162.50	PFBS	0.342	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	2960058.77	2436.83	1876.9	False	13C5-PFHxA	1241020.87	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	181765.99	2408.79	1576.8	False	13C5-PFHxA	1241020.87	1250.00	PFHxA	0.061	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	2282143.07	2578.82	1214.9	False	13C4-PFHpA	1210332.11	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	63749.33	2361.90	906.2	False	13C4-PFHpA	1210332.11	1250.00	PFHpA	0.028	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	1629481.73	2487.80	2198.2	False	13C3-PFHxS	242782.53	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	596426.14	2511.73	1938.8	False	13C3-PFHxS	242782.53	1182.50	PFHxS	0.366	0.359	✓
PFOA_1	413.0 / 369.0	2.28	2775628.67	2513.52	955.4	False	13C8-PFOA	1516779.15	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	270706.18	2582.52	1281.9	False	13C8-PFOA	1516779.15	1222.50	PFOA	0.098	0.093	✓
PFNA_1	463.0 / 419.0	2.65	2603669.80	2659.59	993.0	False	13C9-PFNA	1426244.19	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	825744.04	2465.21	3811.1	False	13C9-PFNA	1426244.19	1250.00	PFNA	0.317	0.338	✓
PFOS_1	499.0 / 80.0	2.64	1674250.62	2585.72	1066.9	False	13C8-PFOS	203339.85	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	327949.08	2578.14	9061.7	False	13C8-PFOS	203339.85	1195.00	PFOS	0.196	0.203	✓
PFDA_1	513.0 / 469.0	3.00	2474380.96	2459.70	1055.0	False	13C6-PFDA	1290989.90	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	146148.32	2400.27	5108.3	False	13C6-PFDA	1290989.90	1250.00	PFDA	0.059	0.059	✓
PFOA_1	563.0 / 519.0	3.32	2648629.15	2504.49	1616.2	False	13C7-PFOA	1190778.97	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.32	164908.90	2379.41	1975.2	False	13C7-PFOA	1190778.97	1250.00	PFOA	0.062	0.061	✓
PFOA_1	613.0 / 569.0	3.61	2822380.13	2665.80	1859.0	False	13C2-PFOA	1389867.70	1250.00	PFOA			
PFOA_2	613.0 / 319.0	3.61	331680.96	2603.34	2460.9	False	13C2-PFOA	1389867.70	1250.00	PFOA	0.118	0.117	✓
PFTeDA_1	663.0 / 619.0	3.87	2432392.33	2791.88	2519.7	False	13C2-PFTeDA	1260648.48	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.87	168469.94	2622.14	2442.6	False	13C2-PFTeDA	1260648.48	1250.00	PFTeDA	0.069	0.070	✓
PFTeDA_1	713.0 / 669.0	4.10	2691346.76	2593.13	3833.5	False	13C2-PFTeDA	1260648.48	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.10	145936.67	2454.53	3372.6	False	13C2-PFTeDA	1260648.48	1250.00	PFTeDA	0.054	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	278819.13	2251.85	880571.0	False	d3-MeFOSAA	192123.34	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.15	295824.74	2343.25	33355.3	False	d3-MeFOSAA	192123.34	1250.00	NMeFOSAA	1.061	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.31	340769.61	2438.57	4750.5	False	d5-EtFOSAA	170106.19	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.32	19177.57	2441.08	16180.6	False	d5-EtFOSAA	170106.19	1250.00	NEtFOSAA	0.056	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.67	2352340.25	2558.11	1548.0	True	13C3-HFPO-DA	489885.94	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	51735.33	2591.64	104946.1	False	13C3-HFPO-DA	489885.94	1250.00	HFPO-DA	0.022	0.023	✓
ADONA_1	377.0 / 251.0	1.95	5783190.43	2532.58	10380.6	False	13C3-PFHxS	242782.53	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.95	82970.89	2333.15	4118.1	False	13C3-PFHxS	242782.53	1182.50	ADONA	0.014	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	3136887.89	2459.64	2952.2	False	13C2-PFDoA	1389867.70	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	32465.40	2480.83	773168.0	False	13C2-PFDoA	1389867.70	1250.00	9CI-PF3ONS	0.010	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	2267713.79	2536.94	2468.0	False	13C2-PFDoA	1389867.70	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	11317.92	2473.19	1794.2	False	13C2-PFDoA	1389867.70	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

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	11/10/2020 8:49:32 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	5705681.46	10379.20	26466.6	False	13C3-PFBS	270995.66	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	1995821.29	10676.81	8590.2	False	13C3-PFBS	270995.66	1162.50	PFBS	0.350	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	10290188.12	10288.74	3545.4	False	13C5-PFHxA	1044889.34	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	627123.82	10076.64	2564.9	False	13C5-PFHxA	1044889.34	1250.00	PFHxA	0.061	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	8044585.77	10559.06	2736.6	False	13C4-PFHpA	1060232.34	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	233843.62	10070.84	1816.3	False	13C4-PFHpA	1060232.34	1250.00	PFHpA	0.029	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	5901442.03	10612.96	4734.3	False	13C3-PFHxS	212608.21	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	2109194.41	10410.03	3465.3	False	13C3-PFHxS	212608.21	1182.50	PFHxS	0.357	0.359	✓
PFOA_1	413.0 / 369.0	2.28	10264662.55	11040.97	1718.7	False	13C8-PFOA	1302218.98	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	1021866.87	11482.82	2575.2	False	13C8-PFOA	1302218.98	1222.50	PFOA	0.100	0.093	✓
PFNA_1	463.0 / 419.0	2.65	8923150.24	11012.08	1789.9	False	13C9-PFNA	1205243.89	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	2913762.54	10489.77	7943.2	False	13C9-PFNA	1205243.89	1250.00	PFNA	0.327	0.338	✓
PFOS_1	499.0 / 80.0	2.64	5950897.03	9579.12	1559.4	False	13C8-PFOS	196111.89	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	1167328.55	9676.81	5234.5	False	13C8-PFOS	196111.89	1195.00	PFOS	0.196	0.203	✓
PFDA_1	513.0 / 469.0	3.00	9023246.51	11046.54	1840.2	False	13C6-PFDA	1060651.20	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	528920.50	10551.11	827.1	False	13C6-PFDA	1060651.20	1250.00	PFDA	0.059	0.059	✓
PFUnA_1	563.0 / 519.0	3.32	9047053.06	10473.22	2386.8	False	13C7-PFUnA	992029.97	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	572147.83	9805.96	3021.0	False	13C7-PFUnA	992029.97	1250.00	PFUnA	0.063	0.061	✓
PFDoA_1	613.0 / 569.0	3.61	10226284.12	10347.02	2432.4	False	13C2-PFDoA	1319366.47	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.61	1206040.81	10044.61	2647.2	False	13C2-PFDoA	1319366.47	1250.00	PFDoA	0.118	0.117	✓
PFTeDA_1	663.0 / 619.0	3.86	8420707.37	10694.03	3150.3	False	13C2-PFTeDA	1174369.46	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.86	610306.73	10324.99	3354.5	False	13C2-PFTeDA	1174369.46	1250.00	PFTeDA	0.072	0.070	✓
PFTeDA_1	713.0 / 669.0	4.10	9732952.44	10272.28	3901.0	False	13C2-PFTeDA	1174369.46	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.09	556080.38	10116.71	3956.0	False	13C2-PFTeDA	1174369.46	1250.00	PFTeDA	0.057	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	1068183.15	10262.64	4209.7	False	d3-MeFOSAA	159353.46	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.14	1129072.27	10885.11	3247.0	False	d3-MeFOSAA	159353.46	1250.00	NMeFOSAA	1.057	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.31	1168064.49	10103.94	1932.0	False	d5-EtFOSAA	140907.22	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.31	66744.60	10196.61	575.3	False	d5-EtFOSAA	140907.22	1250.00	NEtFOSAA	0.057	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.67	8244545.93	9896.77	2765.4	True	13C3-HFPO-DA	483417.46	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	185825.16	10104.20	1447.4	False	13C3-HFPO-DA	483417.46	1250.00	HFPO-DA	0.023	0.023	✓
ADONA_1	377.0 / 251.0	1.95	20313014.82	10463.56	15035.9	False	13C3-PFHxS	212608.21	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.95	314425.53	10403.91	7699555.6	False	13C3-PFHxS	212608.21	1182.50	ADONA	0.015	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	11068522.66	9086.93	4585.3	False	13C2-PFDoA	1319366.47	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	113729.44	9119.35	2299.9	False	13C2-PFDoA	1319366.47	1250.00	9CI-PF3ONS	0.010	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	8170679.49	9650.45	4321.4	False	13C2-PFDoA	1319366.47	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	44055.37	9957.95	1247.4	False	13C2-PFDoA	1319366.47	1250.00	11Cl-PF3OUdS	0.005	0.005	✓



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	11/10/2020 8:59:59 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	13835870.06	24449.05	44949.9	False	13C3-PFBS	280897.45	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	4651539.33	24131.15	12220.9	False	13C3-PFBS	280897.45	1162.50	PFBS	0.336	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	24342118.69	25149.16	5906.9	False	13C5-PFHxA	1015424.73	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	1528066.01	25365.65	3858.3	False	13C5-PFHxA	1015424.73	1250.00	PFHxA	0.063	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	17957678.40	24403.79	4555.2	False	13C4-PFHpA	1027335.83	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	563798.14	25142.60	4309.8	False	13C4-PFHpA	1027335.83	1250.00	PFHpA	0.031	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	13870719.57	24778.59	6277.5	False	13C3-PFHxS	215220.21	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	5095548.78	24965.91	6387.9	False	13C3-PFHxS	215220.21	1182.50	PFHxS	0.367	0.359	✓
PFOA_1	413.0 / 369.0	2.28	23518093.33	23988.34	2003.6	False	13C8-PFOA	1377580.08	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	2202183.31	23431.50	2789.4	False	13C8-PFOA	1377580.08	1222.50	PFOA	0.094	0.093	✓
PFNA_1	463.0 / 419.0	2.65	19575536.64	23827.92	2017.3	False	13C9-PFNA	1226350.67	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.65	6914592.48	24546.79	6685.1	False	13C9-PFNA	1226350.67	1250.00	PFNA	0.353	0.338	✓
PFOS_1	499.0 / 80.0	2.64	15221445.88	25725.22	2859.3	False	13C8-PFOS	187012.61	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	2934051.60	25604.20	3032.3	False	13C8-PFOS	187012.61	1195.00	PFOS	0.193	0.203	✓
PFDA_1	513.0 / 469.0	3.00	19279396.53	24037.19	2264.0	False	13C6-PFDA	1043374.48	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	1209845.93	24525.49	3374.0	False	13C6-PFDA	1043374.48	1250.00	PFDA	0.063	0.059	✓
PFUnA_1	563.0 / 519.0	3.32	19500089.29	24493.35	2366.3	False	13C7-PFUnA	917584.48	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	1363757.60	25218.12	2746.5	False	13C7-PFUnA	917584.48	1250.00	PFUnA	0.070	0.061	✓
PFDoA_1	613.0 / 569.0	3.61	22833855.45	24551.85	2971.8	False	13C2-PFDoA	1245758.52	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.61	2818410.99	24898.20	3937.7	False	13C2-PFDoA	1245758.52	1250.00	PFDoA	0.123	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.86	19479401.37	24060.74	3158.3	False	13C2-PFTeDA	1214761.16	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.86	1500674.74	24604.84	3548.4	False	13C2-PFTeDA	1214761.16	1250.00	PFTTrDA	0.077	0.070	✓
PFTeDA_1	713.0 / 669.0	4.09	24065062.83	24653.19	4111.1	False	13C2-PFTeDA	1214761.16	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.09	1416567.71	24950.86	4349.5	False	13C2-PFTeDA	1214761.16	1250.00	PFTeDA	0.059	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	2997698.49	24983.26	5855.4	False	d3-MeFOSAA	183297.64	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.14	2890912.37	24264.74	5024.0	False	d3-MeFOSAA	183297.64	1250.00	NMeFOSAA	0.964	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.31	2593782.40	25012.92	2742.6	False	d5-EtFOSAA	126425.09	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.31	146936.26	24991.82	2456.0	False	d5-EtFOSAA	126425.09	1250.00	NEtFOSAA	0.057	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.67	20345958.30	25052.63	8915.4	True	13C3-HFPO-DA	558020.96	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	484087.64	24945.74	9629.0	False	13C3-HFPO-DA	558020.96	1250.00	HFPO-DA	0.024	0.023	✓
ADONA_1	377.0 / 251.0	1.95	47874993.15	24496.68	18577.3	False	13C3-PFHxS	215220.21	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.95	752223.53	24713.91	59445.7	False	13C3-PFHxS	215220.21	1182.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	29919200.73	25975.95	6350.8	False	13C2-PFDoA	1245758.52	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	306318.81	25988.81	4186.7	False	13C2-PFDoA	1245758.52	1250.00	9CI-PF3ONS	0.010	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	20265745.22	25362.74	6965.3	False	13C2-PFDoA	1245758.52	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	105466.98	25156.69	2140.1	False	13C2-PFDoA	1245758.52	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

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	11/10/2020 8:07:44 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1397270.36	1268.62	5417.6	False	13C2-PFDA	1111406.09	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.15	181602.75	1264.21	1068.8	False	13C4-PFOS	196370.88	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	173945.56	1389.43	1233.6	False	13C4-PFOS	196370.88	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1192534.54	1334.08	5550.6	False	13C2-PFOA	803610.07	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.91	1280987.59	1387.83	95761018.8	False	13C2-PFOA	803610.07	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1512823.31	1304.79	11613.7	False	13C2-PFOA	803610.07	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1368415.81	1303.98	4715.8	False	13C2-PFOA	803610.07	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	1325592.91	1336.66	1301.5	False	13C2-PFDA	1111406.09	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1156549.78	1322.34	4045.7	False	13C2-PFDA	1111406.09	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1238928.79	1244.54	3281.7	False	13C2-PFDA	1111406.09	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	259560.77	1150.40	822.5	True	13C4-PFOS	196370.88	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	213895.45	1161.59	7770.6	False	13C4-PFOS	196370.88	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	213392.02	1273.84	1318.9	False	13C4-PFOS	196370.88	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	443426.79	1164.84	3564.6	False	13C2-PFOA	803610.07	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	11/10/2020 8:18:11 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1300774.40	1240.06	5206.5	False	13C2-PFDA	1058478.61	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	178034.57	1290.20	1500.8	False	13C4-PFOS	188634.89	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	167279.37	1390.98	919.7	False	13C4-PFOS	188634.89	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1143611.89	1225.04	5049.6	False	13C2-PFOA	839240.12	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1201094.34	1246.03	46011.5	False	13C2-PFOA	839240.12	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1445094.33	1193.46	5045.3	False	13C2-PFOA	839240.12	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1362384.37	1243.11	3585.9	False	13C2-PFOA	839240.12	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	1298488.68	1374.80	6538.7	False	13C2-PFDA	1058478.61	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1110106.35	1332.71	5414.8	False	13C2-PFDA	1058478.61	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1186891.77	1251.89	4909.4	False	13C2-PFDA	1058478.61	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	256129.52	1181.75	913.8	True	13C4-PFOS	188634.89	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	208989.04	1181.49	3133.0	False	13C4-PFOS	188634.89	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.64	195940.55	1217.64	1388.8	False	13C4-PFOS	188634.89	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	445736.14	1121.20	7354.7	False	13C2-PFOA	839240.12	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	11/10/2020 8:28:38 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1489449.58	1243.90	3775.9	False	13C2-PFDA	1208270.38	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	195966.98	1267.23	1237.4	False	13C4-PFOS	211397.66	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	173834.16	1289.84	1165.7	False	13C4-PFOS	211397.66	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1205184.79	1403.93	13460.3	False	13C2-PFOA	771729.60	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.91	1277912.51	1441.69	13903.9	False	13C2-PFOA	771729.60	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1521883.73	1366.83	45280.6	False	13C2-PFOA	771729.60	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1441954.73	1430.81	5506.6	False	13C2-PFOA	771729.60	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1323197.98	1227.28	10046.4	False	13C2-PFDA	1208270.38	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1101304.54	1158.23	3174.8	False	13C2-PFDA	1208270.38	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1272569.05	1175.85	4802.9	False	13C2-PFDA	1208270.38	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	271432.24	1117.51	855.5	True	13C4-PFOS	211397.66	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	230725.58	1163.92	3133.2	False	13C4-PFOS	211397.66	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	220536.30	1222.91	1430.2	False	13C4-PFOS	211397.66	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	491619.35	1344.79	3842.6	False	13C2-PFOA	771729.60	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	11/10/2020 8:39:05 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1389867.70	1225.89	6370.5	False	13C2-PFDA	1144049.86	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	192920.80	1226.80	1226.0	False	13C4-PFOS	214970.43	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	170370.25	1243.13	1040.7	False	13C4-PFOS	214970.43	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1241020.87	1258.11	10305.9	False	13C2-PFOA	886785.71	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1210332.11	1188.29	4912.5	False	13C2-PFOA	886785.71	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1516779.15	1185.50	7124.7	False	13C2-PFOA	886785.71	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1426244.19	1231.61	9720.6	False	13C2-PFOA	886785.71	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1290989.90	1264.62	5707.1	False	13C2-PFDA	1144049.86	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1190778.97	1322.63	3746.2	False	13C2-PFDA	1144049.86	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1260648.48	1230.23	4030.1	False	13C2-PFDA	1144049.86	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	275982.01	1117.35	670.9	True	13C4-PFOS	214970.43	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	242782.53	1204.39	260966.3	False	13C4-PFOS	214970.43	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	203339.85	1108.82	1113.0	False	13C4-PFOS	214970.43	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	489885.94	1166.18	3917.7	False	13C2-PFOA	886785.71	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	11/10/2020 8:49:32 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1319366.47	1306.50	4133.3	False	13C2-PFDA	1019016.26	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	159340.62	1145.21	892.8	False	13C4-PFOS	190202.75	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	140959.30	1162.46	926.5	False	13C4-PFOS	190202.75	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1044889.34	1164.93	14189.3	False	13C2-PFOA	806359.16	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1060232.34	1144.75	16998.0	False	13C2-PFOA	806359.16	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1302218.98	1119.32	1472.9	False	13C2-PFOA	806359.16	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1205243.89	1144.57	3660.5	False	13C2-PFOA	806359.16	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1060651.20	1166.47	5856.3	False	13C2-PFDA	1019016.26	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	992029.97	1237.08	4229.4	False	13C2-PFDA	1019016.26	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1174369.46	1286.65	5026.6	False	13C2-PFDA	1019016.26	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	261653.12	1197.29	819.2	True	13C4-PFOS	190202.75	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	212608.21	1192.04	7731.8	False	13C4-PFOS	190202.75	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	196111.89	1208.66	1432.6	False	13C4-PFOS	190202.75	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	483417.46	1265.57	61365.5	False	13C2-PFOA	806359.16	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	11/10/2020 8:59:59 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1245758.52	1215.02	3253.4	False	13C2-PFDA	1034605.53	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	184067.56	1306.35	1112.9	False	13C4-PFOS	192616.01	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	125766.70	1024.17	986.3	False	13C4-PFOS	192616.01	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1015424.73	1113.90	5545.9	False	13C2-PFOA	819517.47	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1027335.83	1091.42	75333.9	False	13C2-PFOA	819517.47	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1377580.08	1165.09	15421.4	False	13C2-PFOA	819517.47	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1226350.67	1145.92	6800.3	False	13C2-PFOA	819517.47	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	3.00	1043374.48	1130.18	3854.6	False	13C2-PFDA	1034605.53	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	917584.48	1127.00	3774.0	False	13C2-PFDA	1034605.53	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1214761.16	1310.85	3411.3	False	13C2-PFDA	1034605.53	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	267941.16	1210.70	925.9	True	13C4-PFOS	192616.01	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	215220.21	1191.57	2429.1	False	13C4-PFOS	192616.01	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	187012.61	1138.14	1272.4	False	13C4-PFOS	192616.01	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	558020.96	1437.42	3492.0	False	13C2-PFOA	819517.47	1250.00		N/A	N/A	✓

Sample Name	LE52	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	215132.58	231.76	4578.0	False	13C3-PFBS	276142.40	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	61970.72	228.74	1261.6	False	13C3-PFBS	276142.40	1162.50	PFBS	0.288	0.323	✓
PFHxA_1	313.0 / 269.0	1.57	430223.92	241.46	619.5	False	13C5-PFHxA	1333570.18	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.56	26751.26	291.00	849.4	False	13C5-PFHxA	1333570.18	1250.00	PFHxA	0.062	0.061	✓
PFHpA_1	363.0 / 319.0	1.89	326307.49	249.58	447.8	False	13C4-PFHpA	1331385.72	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.88	9056.65	238.02	203.2	False	13C4-PFHpA	1331385.72	1250.00	PFHpA	0.028	0.031	✓
PFHxS_1	399.0 / 80.0	1.89	182495.41	189.16	909.6	False	13C3-PFHxS	255183.39	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.89	73129.51	207.64	528.9	False	13C3-PFHxS	255183.39	1182.50	PFHxS	0.401	0.368	✓
PFOA_1	413.0 / 369.0	2.24	359986.83	223.07	354.3	False	13C8-PFOA	1749456.83	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.24	34832.03	278.23	297.9	False	13C8-PFOA	1749456.83	1222.50	PFOA	0.097	0.097	✓
PFNA_1	463.0 / 419.0	2.61	320699.42	245.88	368.1	False	13C9-PFNA	1584926.84	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.61	104785.43	246.66	1090.7	False	13C9-PFNA	1584926.84	1250.00	PFNA	0.327	0.334	✓
PFOS_1	499.0 / 80.0	2.60	197136.22	264.95	524.2	False	13C8-PFOS	222026.03	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.60	41659.01	272.11	647.3	False	13C8-PFOS	222026.03	1195.00	PFOS	0.211	0.207	✓
PFDA_1	513.0 / 469.0	2.96	315430.19	253.59	370.2	False	13C6-PFDA	1435266.81	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.96	17697.71	271.73	59288.3	False	13C6-PFDA	1435266.81	1250.00	PFDA	0.056	0.058	✓
PFUnA_1	563.0 / 519.0	3.28	329815.83	247.05	439.7	False	13C7-PFUnA	1200937.42	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.28	20167.42	274.65	661.7	False	13C7-PFUnA	1200937.42	1250.00	PFUnA	0.061	0.063	✓
PFDoA_1	613.0 / 569.0	3.58	380019.41	236.10	685.3	False	13C2-PFDoA	1488967.33	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.58	45425.10	277.98	1326.0	False	13C2-PFDoA	1488967.33	1250.00	PFDoA	0.120	0.120	✓
PFTTrDA_1	663.0 / 619.0	3.84	303268.32	229.23	1016.1	False	13C2-PFTeDA	1290683.68	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.83	21526.39	260.74	924.7	False	13C2-PFTeDA	1290683.68	1250.00	PFTTrDA	0.071	0.073	✓
PFTeDA_1	713.0 / 669.0	4.07	331344.62	240.81	1764.1	False	13C2-PFTeDA	1290683.68	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.07	17492.90	256.91	1170.0	False	13C2-PFTeDA	1290683.68	1250.00	PFTeDA	0.053	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.11	32044.96	298.91	2821.6	False	d3-MeFOSAA	190762.72	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.11	32735.01	257.60	782.0	False	d3-MeFOSAA	190762.72	1250.00	NMeFOSAA	1.022	1.110	✓
NEiFOSAA_1	584.0 / 419.0	3.27	42853.67	258.35	27212.1	False	d5-EiFOSAA	185259.35	1250.00	NEiFOSAA			
NEiFOSAA_2	584.0 / 483.0	3.27	2764.79	268.63	3383.1	False	d5-EiFOSAA	185259.35	1250.00	NEiFOSAA	0.065	0.061	✓
HFPO-DA_1	285.0 / 169.0	1.65	330102.93	267.53	1669.6	False	13C3-HFPO-DA	437640.01	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	7820.74	287.80	535.4	False	13C3-HFPO-DA	437640.01	1250.00	HFPO-DA	0.024	0.023	✓
ADONA_1	377.0 / 251.0	1.92	745743.95	197.06	4967.0	False	13C3-PFHxS	255183.39	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.91	9253.00	239.00	1851.5	False	13C3-PFHxS	255183.39	1182.50	ADONA	0.012	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	2.81	344106.76	233.51	755.8	False	13C2-PFDoA	1488967.33	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.81	6763.68	469.17	142.6	False	13C2-PFDoA	1488967.33	1250.00	9CI-PF3ONS	0.020	0.011	
11Cl-pf3OUdS_1	631.0 / 451.0	3.44	270489.52	253.64	1034.7	False	13C2-PFDoA	1488967.33	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.43	874.74	187.83	310.5	False	13C2-PFDoA	1488967.33	1250.00	11Cl-PF3OUdS	0.003	0.005	✓

Sample Name	LE53	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:23:41 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	396974.24	532.53	6258.3	False	13C3-PFBS	274142.62	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	123644.48	528.94	2346.6	False	13C3-PFBS	274142.62	1162.50	PFBS	0.311	0.323	✓
PFHxA_1	313.0 / 269.0	1.57	752174.13	471.67	952.1	False	13C5-PFHxA	1419501.72	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	43195.25	466.62	617.4	False	13C5-PFHxA	1419501.72	1250.00	PFHxA	0.057	0.061	✓
PFHpA_1	363.0 / 319.0	1.90	546651.25	467.14	596.3	False	13C4-PFHpA	1338035.19	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	20208.80	575.56	622.3	False	13C4-PFHpA	1338035.19	1250.00	PFHpA	0.037	0.031	✓
PFHxS_1	399.0 / 80.0	1.91	386144.41	529.33	1135.7	False	13C3-PFHxS	234249.01	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	138128.69	510.87	992.2	False	13C3-PFHxS	234249.01	1182.50	PFHxS	0.358	0.368	✓
PFOA_1	413.0 / 369.0	2.26	679337.68	498.96	576.0	False	13C8-PFOA	1690350.75	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	63823.06	514.25	1012.1	False	13C8-PFOA	1690350.75	1222.50	PFOA	0.094	0.097	✓
PFNA_1	463.0 / 419.0	2.62	618297.73	490.29	433.6	False	13C9-PFNA	1648890.32	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	219471.01	527.34	1928.6	False	13C9-PFNA	1648890.32	1250.00	PFNA	0.355	0.334	✓
PFOS_1	499.0 / 80.0	2.61	401469.81	504.85	563.0	False	13C8-PFOS	239406.79	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	76017.55	462.46	1372.4	False	13C8-PFOS	239406.79	1195.00	PFOS	0.189	0.207	✓
PFDA_1	513.0 / 469.0	2.97	590598.80	490.11	600.0	False	13C6-PFDA	1463736.97	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.96	35848.04	530.42	660070.6	False	13C6-PFDA	1463736.97	1250.00	PFDA	0.061	0.058	✓
PFUnA_1	563.0 / 519.0	3.28	667907.08	505.66	644.2	False	13C7-PFUnA	1316601.17	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.28	40687.44	506.89	1464.3	False	13C7-PFUnA	1316601.17	1250.00	PFUnA	0.061	0.063	✓
PFDoA_1	613.0 / 569.0	3.56	706400.34	474.19	798.7	False	13C2-PFDoA	1614852.24	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.56	81325.38	478.46	1521.4	False	13C2-PFDoA	1614852.24	1250.00	PFDoA	0.115	0.120	✓
PFTTrDA_1	663.0 / 619.0	3.82	588841.51	490.39	1213.1	False	13C2-PFTTeDA	1377561.18	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.81	38835.68	460.26	1233.8	False	13C2-PFTTeDA	1377561.18	1250.00	PFTTrDA	0.066	0.073	✓
PFTTeDA_1	713.0 / 669.0	4.05	630396.25	487.55	1923.7	False	13C2-PFTTeDA	1377561.18	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.05	33396.08	479.31	1921.5	False	13C2-PFTTeDA	1377561.18	1250.00	PFTTeDA	0.053	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.11	49970.09	464.01	952.0	False	d3-MeFOSAA	185674.16	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.11	60985.82	494.44	1046.5	False	d3-MeFOSAA	185674.16	1250.00	NMeFOSAA	1.220	1.110	✓
NEtFOSAA_1	584.0 / 419.0	3.27	81896.74	519.56	2003.3	False	d5-EtFOSAA	192426.69	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.26	4254.39	430.63	791.0	False	d5-EtFOSAA	192426.69	1250.00	NEtFOSAA	0.052	0.061	✓
HFPO-DA_1	285.0 / 169.0	1.66	612156.68	491.23	3045.7	False	13C3-HFPO-DA	452457.80	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	13687.71	479.83	625622.4	False	13C3-HFPO-DA	452457.80	1250.00	HFPO-DA	0.022	0.023	✓
ADONA_1	377.0 / 251.0	1.93	1418030.23	504.60	7039.4	False	13C3-PFHxS	234249.01	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	18487.10	501.67	2641.6	False	13C3-PFHxS	234249.01	1182.50	ADONA	0.013	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	2.82	713245.69	479.36	1068.9	False	13C2-PFDoA	1614852.24	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.82	7655.56	489.88	795.1	False	13C2-PFDoA	1614852.24	1250.00	9CI-PF3ONS	0.011	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.43	520785.01	465.52	1484.0	False	13C2-PFDoA	1614852.24	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.43	2711.10	496.65	440.0	False	13C2-PFDoA	1614852.24	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

Sample Name	LE54	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:34:12 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	701237.85	999.67	7179.5	False	13C3-PFBS	281949.82	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	238020.42	1049.80	2589.9	False	13C3-PFBS	281949.82	1162.50	PFBS	0.339	0.323	✓
PFHxA_1	313.0 / 269.0	1.57	1379727.53	1001.28	998.6	False	13C5-PFHxA	1370489.20	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	76760.99	899.81	1376.7	False	13C5-PFHxA	1370489.20	1250.00	PFHxA	0.056	0.061	✓
PFHpA_1	363.0 / 319.0	1.90	1057340.30	979.29	706.3	False	13C4-PFHpA	1332765.66	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	31364.52	918.35	814.3	False	13C4-PFHpA	1332765.66	1250.00	PFHpA	0.030	0.031	✓
PFHxS_1	399.0 / 80.0	1.91	737577.21	1127.36	1495.8	False	13C3-PFHxS	224243.43	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	257777.67	1071.01	1449.1	False	13C3-PFHxS	224243.43	1182.50	PFHxS	0.349	0.368	✓
PFOA_1	413.0 / 369.0	2.26	1237369.32	1043.40	610.4	False	13C8-PFOA	1568440.79	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	112588.35	964.22	1581.3	False	13C8-PFOA	1568440.79	1222.50	PFOA	0.091	0.097	✓
PFNA_1	463.0 / 419.0	2.63	1155432.14	955.89	540.9	False	13C9-PFNA	1641616.74	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	361991.08	893.56	1957.1	False	13C9-PFNA	1641616.74	1250.00	PFNA	0.313	0.334	✓
PFOS_1	499.0 / 80.0	2.62	710116.29	909.14	933.6	False	13C8-PFOS	236180.39	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	157201.04	972.51	2306.7	False	13C8-PFOS	236180.39	1195.00	PFOS	0.221	0.207	✓
PFDA_1	513.0 / 469.0	2.98	1105259.28	963.40	595.8	False	13C6-PFDA	1433333.25	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	58676.57	880.29	11857.5	False	13C6-PFDA	1433333.25	1250.00	PFDA	0.053	0.058	✓
PFUnA_1	563.0 / 519.0	3.31	1107554.50	933.97	997.0	False	13C7-PFUnA	1240767.51	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	68758.18	910.33	3693.2	False	13C7-PFUnA	1240767.51	1250.00	PFUnA	0.062	0.063	✓
PFDoA_1	613.0 / 569.0	3.60	1257292.88	1041.36	1157.5	False	13C2-PFDoA	1442658.71	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.60	139653.57	947.45	2057.2	False	13C2-PFDoA	1442658.71	1250.00	PFDoA	0.111	0.120	✓
PFTrDA_1	663.0 / 619.0	3.85	1052066.33	1027.89	1665.0	False	13C2-PFTeDA	1277386.00	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	3.85	75743.96	999.28	2091.5	False	13C2-PFTeDA	1277386.00	1250.00	PFTrDA	0.072	0.073	✓
PFTeDA_1	713.0 / 669.0	4.08	1134679.08	1016.50	2198.2	False	13C2-PFTeDA	1277386.00	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.08	62245.21	988.72	2513.4	False	13C2-PFTeDA	1277386.00	1250.00	PFTeDA	0.055	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.13	107701.49	936.02	480036.8	False	d3-MeFOSAA	192879.79	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	132277.72	1034.69	4928.0	False	d3-MeFOSAA	192879.79	1250.00	NMeFOSAA	1.228	1.110	✓
NEiFOSAA_1	584.0 / 419.0	3.30	140714.12	929.60	1491.6	False	d5-EtFOSAA	192131.59	1250.00	NEiFOSAA			
NEiFOSAA_2	584.0 / 483.0	3.29	9882.96	1087.02	1308141.2	False	d5-EtFOSAA	192131.59	1250.00	NEiFOSAA	0.070	0.061	✓
HFPO-DA_1	285.0 / 169.0	1.66	1174327.93	968.86	5491.5	False	13C3-HFPO-DA	447804.42	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	26610.15	935.26	1325.0	False	13C3-HFPO-DA	447804.42	1250.00	HFPO-DA	0.023	0.023	✓
ADONA_1	377.0 / 251.0	1.93	2698136.68	1091.80	8149.5	False	13C3-PFHxS	224243.43	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	35040.72	977.90	555.7	False	13C3-PFHxS	224243.43	1182.50	ADONA	0.013	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	1299743.87	1015.55	1461.5	False	13C2-PFDoA	1442658.71	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.84	14317.85	1031.49	383.4	False	13C2-PFDoA	1442658.71	1250.00	9CI-PF3ONS	0.011	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	989580.38	1012.30	1895.3	False	13C2-PFDoA	1442658.71	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	6492.64	1295.04	17891.0	True	13C2-PFDoA	1442658.71	1250.00	11Cl-pf3OUdS	0.007	0.005	✓

Sample Name	LE55	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:44:42 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	1804660.17	2459.39	15763.5	False	13C3-PFBS	314732.92	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	581969.24	2381.05	3984.6	False	13C3-PFBS	314732.92	1162.50	PFBS	0.322	0.323	✓
PFHxA_1	313.0 / 269.0	1.57	3341781.20	2769.53	1461.2	False	13C5-PFHxA	1285871.26	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	193744.22	2502.89	2207.5	False	13C5-PFHxA	1285871.26	1250.00	PFHxA	0.058	0.061	✓
PFHpA_1	363.0 / 319.0	1.90	2583337.95	2645.78	1054.3	False	13C4-PFHpA	1262979.65	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	75666.64	2397.57	1539.3	False	13C4-PFHpA	1262979.65	1250.00	PFHpA	0.029	0.031	✓
PFHxS_1	399.0 / 80.0	1.90	1766399.60	2670.57	1978.9	False	13C3-PFHxS	234796.35	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	654727.40	2710.71	2458.7	False	13C3-PFHxS	234796.35	1182.50	PFHxS	0.371	0.368	✓
PFOA_1	413.0 / 369.0	2.26	3051653.49	2579.37	957.3	False	13C8-PFOA	1622530.23	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	265707.50	2180.56	2638.9	False	13C8-PFOA	1622530.23	1222.50	PFOA	0.087	0.097	✓
PFNA_1	463.0 / 419.0	2.63	2888333.84	2651.11	855.4	False	13C9-PFNA	1519204.22	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	943365.80	2571.44	2519.6	False	13C9-PFNA	1519204.22	1250.00	PFNA	0.327	0.334	✓
PFOS_1	499.0 / 80.0	2.62	1815998.31	2660.63	1400.9	False	13C8-PFOS	207128.61	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	378194.80	2672.79	2207.1	False	13C8-PFOS	207128.61	1195.00	PFOS	0.208	0.207	✓
PFDA_1	513.0 / 469.0	2.98	2776876.57	2448.20	970.1	False	13C6-PFDA	1442970.30	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	155448.72	2301.17	29892.6	False	13C6-PFDA	1442970.30	1250.00	PFDA	0.056	0.058	✓
PFUnA_1	563.0 / 519.0	3.31	3042259.38	2693.18	1263.6	False	13C7-PFUnA	1229010.07	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	181032.47	2422.60	2495.9	False	13C7-PFUnA	1229010.07	1250.00	PFUnA	0.060	0.063	✓
PFDoA_1	613.0 / 569.0	3.60	3014564.80	2629.99	1724.8	False	13C2-PFDoA	1444218.72	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.60	365809.09	2527.73	2794.9	False	13C2-PFDoA	1444218.72	1250.00	PFDoA	0.121	0.120	✓
PFTrDA_1	663.0 / 619.0	3.85	2583262.66	2616.09	2586.1	False	13C2-PFTeDA	1295402.29	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	3.85	189400.05	2505.42	2585.6	False	13C2-PFTeDA	1295402.29	1250.00	PFTrDA	0.073	0.073	✓
PFTeDA_1	713.0 / 669.0	4.09	2757668.21	2540.13	3239.4	False	13C2-PFTeDA	1295402.29	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.09	155984.74	2480.11	3208.2	False	13C2-PFTeDA	1295402.29	1250.00	PFTeDA	0.057	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.13	265352.76	2254.32	644.1	False	d3-MeFOSAA	194096.77	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	297357.33	2317.70	1712.5	False	d3-MeFOSAA	194096.77	1250.00	NMeFOSAA	1.121	1.110	✓
NEiFOSAA_1	584.0 / 419.0	3.30	356431.03	2474.18	2296.6	False	d5-EtFOSAA	186832.59	1250.00	NEiFOSAA			
NEiFOSAA_2	584.0 / 483.0	3.29	21056.94	2433.97	1777652.7	False	d5-EtFOSAA	186832.59	1250.00	NEiFOSAA	0.059	0.061	✓
HFPO-DA_1	285.0 / 169.0	1.66	2945011.52	2403.54	6625.8	False	13C3-HFPO-DA	462823.59	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	67023.78	2293.38	193727.8	False	13C3-HFPO-DA	462823.59	1250.00	HFPO-DA	0.023	0.023	✓
ADONA_1	377.0 / 251.0	1.93	6655344.52	2694.02	9858.4	False	13C3-PFHxS	234796.35	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	98712.42	2604.41	11078.6	False	13C3-PFHxS	234796.35	1182.50	ADONA	0.015	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	3450791.75	2753.31	1930.1	False	13C2-PFDoA	1444218.72	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	34822.42	2513.74	3321.1	False	13C2-PFDoA	1444218.72	1250.00	9CI-PF3ONS	0.010	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	2478652.37	2562.34	2792.0	False	13C2-PFDoA	1444218.72	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	12098.80	2392.04	4867.7	False	13C2-PFDoA	1444218.72	1250.00	11Cl-pf3OUdS	0.005	0.005	✓

Sample Name	LE56	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:55:11 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	6773537.47	10389.86	24995.8	False	13C3-PFBS	289795.13	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	2284440.87	10374.48	9734.3	False	13C3-PFBS	289795.13	1162.50	PFBS	0.337	0.323	✓
PFHxA_1	313.0 / 269.0	1.57	11448575.63	10590.12	3145.1	False	13C5-PFHxA	1187565.40	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	754326.63	10708.10	3248.7	False	13C5-PFHxA	1187565.40	1250.00	PFHxA	0.066	0.061	✓
PFHpA_1	363.0 / 319.0	1.90	9535089.38	10557.52	1975.8	False	13C4-PFHpA	1193412.48	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	301768.54	10243.46	1626.6	False	13C4-PFHpA	1193412.48	1250.00	PFHpA	0.032	0.031	✓
PFHxS_1	399.0 / 80.0	1.90	6733355.14	10734.85	5867.7	False	13C3-PFHxS	227109.04	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	2464735.12	10778.60	4222.6	False	13C3-PFHxS	227109.04	1182.50	PFHxS	0.366	0.368	✓
PFOA_1	413.0 / 369.0	2.26	11151043.20	10640.43	1651.9	False	13C8-PFOA	1465087.56	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	1124009.58	10160.57	2458.7	False	13C8-PFOA	1465087.56	1222.50	PFOA	0.101	0.097	✓
PFNA_1	463.0 / 419.0	2.62	10069896.82	10388.29	1825.7	False	13C9-PFNA	1367047.92	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	3469020.73	10602.06	3997.7	False	13C9-PFNA	1367047.92	1250.00	PFNA	0.344	0.334	✓
PFOS_1	499.0 / 80.0	2.62	7198023.47	10082.89	2322.4	False	13C8-PFOS	216938.68	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	1467280.55	9908.36	5969.0	False	13C8-PFOS	216938.68	1195.00	PFOS	0.204	0.207	✓
PFDA_1	513.0 / 469.0	2.97	9840975.61	10982.06	1586.2	False	13C6-PFDA	1150583.88	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.97	577133.18	10680.20	5354.2	False	13C6-PFDA	1150583.88	1250.00	PFDA	0.059	0.058	✓
PFUnA_1	563.0 / 519.0	3.29	10436567.36	9907.10	2033.1	False	13C7-PFUnA	1164064.17	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.29	710744.06	10047.39	2409.7	False	13C7-PFUnA	1164064.17	1250.00	PFUnA	0.068	0.063	✓
PFDoA_1	613.0 / 569.0	3.58	11590921.69	10319.05	2548.0	False	13C2-PFDoA	1453959.90	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.58	1376629.04	9531.15	2589.0	False	13C2-PFDoA	1453959.90	1250.00	PFDoA	0.119	0.120	✓
PFTTrDA_1	663.0 / 619.0	3.83	9732923.52	10542.15	4028.5	False	13C2-PFTeDA	1242078.24	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.83	759507.62	10568.23	3642.2	False	13C2-PFTeDA	1242078.24	1250.00	PFTTrDA	0.078	0.073	✓
PFTeDA_1	713.0 / 669.0	4.06	10702804.57	10508.82	3786.0	False	13C2-PFTeDA	1242078.24	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.06	629519.13	10519.28	3455.6	False	13C2-PFTeDA	1242078.24	1250.00	PFTeDA	0.059	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.12	1119810.44	10444.90	22942.2	False	d3-MeFOSAA	174454.50	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	1163176.28	10219.62	2271.7	False	d3-MeFOSAA	174454.50	1250.00	NMeFOSAA	1.039	1.110	✓
NEtFOSAA_1	584.0 / 419.0	3.28	1329385.01	10092.46	2022.2	False	d5-EtFOSAA	162879.38	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.28	79134.38	10038.06	7604.2	False	d5-EtFOSAA	162879.38	1250.00	NEtFOSAA	0.060	0.061	✓
HFPO-DA_1	285.0 / 169.0	1.66	11155937.70	10214.45	10070.3	False	13C3-HFPO-DA	449424.60	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	273169.12	10461.76	14495166.1	False	13C3-HFPO-DA	449424.60	1250.00	HFPO-DA	0.024	0.023	✓
ADONA_1	377.0 / 251.0	1.93	24974539.08	10710.71	16505.2	False	13C3-PFHxS	227109.04	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	382970.10	10398.87	7214.4	False	13C3-PFHxS	227109.04	1182.50	ADONA	0.015	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	2.82	12490987.71	9993.74	3590.2	False	13C2-PFDoA	1453959.90	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.82	135679.77	9744.33	2585.8	False	13C2-PFDoA	1453959.90	1250.00	9CI-PF3ONS	0.011	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	9988167.12	10315.22	4792.5	False	13C2-PFDoA	1453959.90	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.44	51991.84	10139.79	1260.0	False	13C2-PFDoA	1453959.90	1250.00	11Cl-pf3OUdS	0.005	0.005	✓

Sample Name	LE57	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:05:40 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	14104113.35	24636.78	37138.0	False	13C3-PFBS	256146.30	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	4786551.31	24686.99	9861.0	False	13C3-PFBS	256146.30	1162.50	PFBS	0.339	0.323	✓
PFHxA_1	313.0 / 269.0	1.56	24724096.19	24568.45	5397.6	False	13C5-PFHxA	1112384.00	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.56	1630509.92	24774.07	7588.0	False	13C5-PFHxA	1112384.00	1250.00	PFHxA	0.066	0.061	✓
PFHpA_1	363.0 / 319.0	1.89	19407613.88	24350.68	3843.0	False	13C4-PFHpA	1057462.42	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	647948.42	24877.04	2843.6	False	13C4-PFHpA	1057462.42	1250.00	PFHpA	0.033	0.031	✓
PFHxS_1	399.0 / 80.0	1.90	14163032.18	24391.24	6695.2	False	13C3-PFHxS	211024.64	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.89	5155640.31	24363.68	7113.7	False	13C3-PFHxS	211024.64	1182.50	PFHxS	0.364	0.368	✓
PFOA_1	413.0 / 369.0	2.25	22964578.55	24264.76	2307.4	False	13C8-PFOA	1327713.67	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	2523767.61	25152.18	3017.3	False	13C8-PFOA	1327713.67	1222.50	PFOA	0.110	0.097	✓
PFNA_1	463.0 / 419.0	2.62	21872498.22	24518.55	2048.4	False	13C9-PFNA	1260902.99	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	7354644.86	24408.95	4854.2	False	13C9-PFNA	1260902.99	1250.00	PFNA	0.336	0.334	✓
PFOS_1	499.0 / 80.0	2.61	15740889.77	25220.03	3435.2	True	13C8-PFOS	189723.74	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	3283002.67	25354.27	4231.8	False	13C8-PFOS	189723.74	1195.00	PFOS	0.209	0.207	✓
PFDA_1	513.0 / 469.0	2.97	19996067.07	24112.63	1938.7	False	13C6-PFDA	1066337.16	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.97	1231914.09	24586.18	3573.0	False	13C6-PFDA	1066337.16	1250.00	PFDA	0.062	0.058	✓
PFUnA_1	563.0 / 519.0	3.30	21821795.54	24963.04	2872.2	False	13C7-PFUnA	969374.13	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	1477739.73	25088.15	2914.6	False	13C7-PFUnA	969374.13	1250.00	PFUnA	0.068	0.063	✓
PFDoA_1	613.0 / 569.0	3.59	25173977.71	24549.31	2607.7	False	13C2-PFDoA	1334586.40	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	3372343.89	25487.22	3766.4	False	13C2-PFDoA	1334586.40	1250.00	PFDoA	0.134	0.120	✓
PFTrDA_1	663.0 / 619.0	3.85	21175655.72	24344.26	3851.3	False	13C2-PFTeDA	1175857.37	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	3.84	1661360.11	24456.07	4319.8	False	13C2-PFTeDA	1175857.37	1250.00	PFTrDA	0.078	0.073	✓
PFTeDA_1	713.0 / 669.0	4.08	23485040.87	24456.20	4440.6	False	13C2-PFTeDA	1175857.37	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.08	1387585.75	24525.66	4151.1	False	13C2-PFTeDA	1175857.37	1250.00	PFTeDA	0.059	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.12	2696559.08	24851.61	4960.3	False	d3-MeFOSAA	174890.72	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	2776614.60	24925.85	2176.3	False	d3-MeFOSAA	174890.72	1250.00	NMeFOSAA	1.030	1.110	✓
NEiFOSAA_1	584.0 / 419.0	3.29	2868255.96	24973.32	2350.3	False	d5-EiFOSAA	127090.13	1250.00	NEiFOSAA			
NEiFOSAA_2	584.0 / 483.0	3.29	172170.69	24990.76	1850.4	False	d5-EiFOSAA	127090.13	1250.00	NEiFOSAA	0.060	0.061	✓
HFPO-DA_1	285.0 / 169.0	1.65	25440902.10	24885.85	13442.8	False	13C3-HFPO-DA	500912.50	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	605708.07	24751.81	1623.9	False	13C3-HFPO-DA	500912.50	1250.00	HFPO-DA	0.024	0.023	✓
ADONA_1	377.0 / 251.0	1.92	51869772.05	24051.80	25809.9	False	13C3-PFHxS	211024.64	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.92	840081.08	24528.16	1139.4	False	13C3-PFHxS	211024.64	1182.50	ADONA	0.016	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	2.82	28361538.72	24774.53	6269.4	False	13C2-PFDoA	1334586.40	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.82	322228.15	25220.56	4690.7	False	13C2-PFDoA	1334586.40	1250.00	9CI-PF3ONS	0.011	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	21876556.00	24640.98	5291.0	False	13C2-PFDoA	1334586.40	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	116579.84	24738.65	3098.3	False	13C2-PFDoA	1334586.40	1250.00	11Cl-pf3OUdS	0.005	0.005	✓

Sample Name	LE52	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1488967.33	1200.59	3828.6	False	13C2-PFDA	1198084.65	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.10	189414.04	1212.58	1119.5	False	13C4-PFOS	216866.14	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	184628.70	1262.14	1284.5	False	13C4-PFOS	216866.14	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	1333570.18	1303.43	6237.5	False	13C2-PFOA	833733.25	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	1331385.72	1334.12	2214.0	False	13C2-PFOA	833733.25	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.23	1749456.83	1367.79	38524.4	False	13C2-PFOA	833733.25	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.60	1584926.84	1323.46	4577.8	False	13C2-PFOA	833733.25	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.95	1435266.81	1276.28	6044.3	False	13C2-PFDA	1198084.65	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	1200937.42	1197.52	3405.1	False	13C2-PFDA	1198084.65	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1290683.68	1192.23	4431.6	False	13C2-PFDA	1198084.65	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	276142.40	1075.48	161575.2	False	13C4-PFOS	216866.14	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	255183.39	1235.15	9440.8	False	13C4-PFOS	216866.14	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.60	222026.03	1150.92	2432.5	False	13C4-PFOS	216866.14	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.64	437640.01	1198.39	47927.7	False	13C2-PFOA	833733.25	1250.00		N/A	N/A	✓

Sample Name	LE53	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:23:41 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1614852.24	1300.31	3648.9	False	13C2-PFDA	1199728.51	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.10	183623.32	1176.92	958.6	False	13C4-PFOS	216605.25	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.26	193702.67	1325.76	1169.6	False	13C4-PFOS	216605.25	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1419501.72	1324.49	8212.2	False	13C2-PFOA	873341.85	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1338035.19	1279.97	78874.2	False	13C2-PFOA	873341.85	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1690350.75	1261.64	12068.9	False	13C2-PFOA	873341.85	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1648890.32	1314.43	4142.3	False	13C2-PFOA	873341.85	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	1463736.97	1299.81	3251.2	False	13C2-PFDA	1199728.51	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	1316601.17	1311.05	3242.0	False	13C2-PFDA	1199728.51	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.04	1377561.18	1270.74	4445.7	False	13C2-PFDA	1199728.51	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	274142.62	1068.98	5764.7	False	13C4-PFOS	216605.25	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	234249.01	1135.19	20403.3	False	13C4-PFOS	216605.25	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	239406.79	1242.51	1247.5	False	13C4-PFOS	216605.25	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	452457.80	1182.78	352839.4	False	13C2-PFOA	873341.85	1250.00		N/A	N/A	✓

Sample Name	LE54	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:34:12 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1442658.71	1144.25	3497.2	False	13C2-PFDA	1217980.72	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	192505.43	1202.92	1116.4	False	13C4-PFOS	222174.44	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	191739.98	1279.43	1170.8	False	13C4-PFOS	222174.44	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1370489.20	1352.98	13040.8	False	13C2-PFOA	825430.65	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1332765.66	1348.93	68714.7	False	13C2-PFOA	825430.65	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1568440.79	1238.60	1190.8	False	13C2-PFOA	825430.65	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1641616.74	1384.59	3549.9	False	13C2-PFOA	825430.65	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1433333.25	1253.74	1533.3	False	13C2-PFDA	1217980.72	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1240767.51	1217.02	3841.7	False	13C2-PFDA	1217980.72	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1277386.00	1160.67	4271.1	False	13C2-PFDA	1217980.72	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	281949.82	1071.87	30077.2	False	13C4-PFOS	222174.44	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	224243.43	1059.46	251344.8	False	13C4-PFOS	222174.44	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	236180.39	1195.04	1626.8	False	13C4-PFOS	222174.44	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	447804.42	1238.56	6780.1	False	13C2-PFOA	825430.65	1250.00		N/A	N/A	✓

Sample Name	LE55	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:44:42 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1444218.72	1286.23	4450.8	False	13C2-PFDA	1084702.61	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	195654.73	1274.26	1923.5	False	13C4-PFOS	213168.09	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	186723.59	1298.60	1250.1	False	13C4-PFOS	213168.09	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1285871.26	1260.12	8298.9	False	13C2-PFOA	831541.41	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1262979.65	1268.91	28252224.6	False	13C2-PFOA	831541.41	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1622530.23	1271.89	37904.7	False	13C2-PFOA	831541.41	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1519204.22	1271.93	3174.1	False	13C2-PFOA	831541.41	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1442970.30	1417.25	3975.0	False	13C2-PFDA	1084702.61	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1229010.07	1353.61	4613.7	False	13C2-PFDA	1084702.61	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1295402.29	1321.67	4081.2	False	13C2-PFDA	1084702.61	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	314732.92	1247.05	8742.0	False	13C4-PFOS	213168.09	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	234796.35	1156.19	53585698.7	False	13C4-PFOS	213168.09	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	207128.61	1092.32	1300.3	False	13C4-PFOS	213168.09	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	462823.59	1270.70	1695983.1	False	13C2-PFOA	831541.41	1250.00		N/A	N/A	✓

Sample Name	LE56	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:55:11 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1453959.90	1236.08	3804.3	False	13C2-PFDA	1136324.13	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	173063.41	1230.05	1088.4	False	13C4-PFOS	195330.75	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	163086.77	1237.79	994.6	False	13C4-PFOS	195330.75	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1187565.40	1193.75	11873.1	False	13C2-PFOA	810662.99	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1193412.48	1229.89	1965.3	False	13C2-PFOA	810662.99	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1465087.56	1178.05	17251.9	False	13C2-PFOA	810662.99	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1367047.92	1174.01	3745.4	False	13C2-PFOA	810662.99	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1150583.88	1078.74	904.1	False	13C2-PFDA	1136324.13	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	1164064.17	1223.84	3715.1	False	13C2-PFDA	1136324.13	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1242078.24	1209.69	4263.6	False	13C2-PFDA	1136324.13	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	289795.13	1253.09	7445.7	False	13C4-PFOS	195330.75	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	227109.04	1220.46	54472486.9	False	13C4-PFOS	195330.75	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	216938.68	1248.53	1838.8	False	13C4-PFOS	195330.75	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	449424.60	1265.69	36547.8	False	13C2-PFOA	810662.99	1250.00		N/A	N/A	✓

Sample Name	LE57	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:05:40 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1334586.40	1332.54	3903.6	False	13C2-PFDA	967528.02	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	173755.06	1403.26	803.9	False	13C4-PFOS	171904.37	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	127118.38	1096.28	1179.6	False	13C4-PFOS	171904.37	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	1112384.00	1065.22	6133.6	False	13C2-PFOA	850964.93	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	1057462.42	1038.18	1916251.0	False	13C2-PFOA	850964.93	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1327713.67	1017.03	1063.9	False	13C2-PFOA	850964.93	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1260902.99	1031.57	3171.5	False	13C2-PFOA	850964.93	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1066337.16	1174.17	10225.1	False	13C2-PFDA	967528.02	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	969374.13	1196.95	2784.5	False	13C2-PFDA	967528.02	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1175857.37	1344.99	3878.7	False	13C2-PFDA	967528.02	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	256146.30	1258.53	88731.4	False	13C4-PFOS	171904.37	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	211024.64	1288.56	7145.5	False	13C4-PFOS	171904.37	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	189723.74	1240.70	1949.3	False	13C4-PFOS	171904.37	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.64	500912.50	1343.88	51990.0	False	13C2-PFOA	850964.93	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	11/10/2020 9:20:54 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.33	2801.98	2500.00	112.08
PFBS_2	298.9 / 99.0	1.33	2720.80	2500.00	108.83
PFHxA_1	313.0 / 269.0	1.58	2599.64	2525.00	102.96
PFHxA_2	313.0 / 119.0	1.58	2573.47	2525.00	101.92
PFHpA_1	363.0 / 319.0	1.91	2694.90	2500.00	107.80
PFHpA_2	363.0 / 169.0	1.91	2516.20	2500.00	100.65
PFHxS_1	399.0 / 80.0	1.92	3005.14	2525.00	119.02
PFHxS_2	399.0 / 99.0	1.92	2851.21	2525.00	112.92
PFOA_1	413.0 / 369.0	2.27	2518.49	2500.00	100.74
PFOA_2	413.0 / 169.0	2.27	2462.24	2500.00	98.49
PFNA_1	463.0 / 419.0	2.65	2666.14	2500.00	106.65
PFNA_2	463.0 / 219.0	2.64	2723.99	2500.00	108.96
PFOS_1	499.0 / 80.0	2.64	2340.42	2525.00	92.69
PFOS_2	499.0 / 99.0	2.64	2473.00	2525.00	97.94
PFDA_1	513.0 / 469.0	3.00	2560.55	2500.00	102.42
PFDA_2	513.0 / 219.0	3.00	2289.29	2500.00	91.57
PFUnA_1	563.0 / 519.0	3.32	2624.43	2500.00	104.98
PFUnA_2	563.0 / 269.0	3.32	2505.04	2500.00	100.20
PFDoA_1	613.0 / 569.0	3.61	2900.95	2500.00	116.04
PFDoA_2	613.0 / 319.0	3.61	2741.24	2500.00	109.65
PFTrDA_1	663.0 / 619.0	3.87	2922.56	2500.00	116.90
PFTrDA_2	663.0 / 169.0	3.87	2852.82	2500.00	114.11
PFTeDA_1	713.0 / 669.0	4.11	2755.20	2500.00	110.21
PFTeDA_2	713.0 / 169.0	4.11	2634.64	2500.00	105.39
NMeFOSAA_1	570.0 / 419.0	3.14	2454.13	2500.00	98.17
NMeFOSAA_2	570.0 / 512.0	3.14	2800.32	2500.00	112.01
NEtFOSAA_1	584.0 / 419.0	3.31	2241.99	2500.00	89.68
NEtFOSAA_2	584.0 / 483.0	3.31	1996.69	2500.00	79.87
HFPO-DA_1	285.0 / 169.0	1.66	2908.46	2500.00	116.34
HFPO-DA_2	285.0 / 118.8	1.66	2579.87	2500.00	103.19
ADONA_1	377.0 / 251.0	1.94	2760.34	2500.00	110.41
ADONA_2	377.0 / 85.0	1.94	2752.69	2500.00	110.11
9Cl-PF3ONS_1	531.0 / 351.0	2.85	2630.91	2500.00	105.24
9Cl-PF3ONS_2	531.0 / 83.0	2.85	2444.31	2500.00	97.77
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	2613.47	2500.00	104.54
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	2594.74	2500.00	103.79

Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 10:44:35 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.33	1172.25	1000.00	117.22
PFBS_2	298.9 / 99.0	1.33	1120.86	1000.00	112.09
PFHxA_1	313.0 / 269.0	1.58	987.17	1010.00	97.74
PFHxA_2	313.0 / 119.0	1.58	921.43	1010.00	91.23
PFHpA_1	363.0 / 319.0	1.91	962.47	1000.00	96.25
PFHpA_2	363.0 / 169.0	1.91	951.05	1000.00	95.11
PFHxS_1	399.0 / 80.0	1.92	1009.29	1010.00	99.93
PFHxS_2	399.0 / 99.0	1.92	942.36	1010.00	93.30
PFOA_1	413.0 / 369.0	2.27	1003.02	1000.00	100.30
PFOA_2	413.0 / 169.0	2.27	951.34	1000.00	95.13
PFNA_1	463.0 / 419.0	2.65	972.45	1000.00	97.25
PFNA_2	463.0 / 219.0	2.64	921.65	1000.00	92.16
PFOS_1	499.0 / 80.0	2.64	934.94	1010.00	92.57
PFOS_2	499.0 / 99.0	2.64	1017.74	1010.00	100.77
PFDA_1	513.0 / 469.0	3.00	929.31	1000.00	92.93
PFDA_2	513.0 / 219.0	3.00	918.15	1000.00	91.82
PFUnA_1	563.0 / 519.0	3.32	1043.24	1000.00	104.32
PFUnA_2	563.0 / 269.0	3.32	1104.51	1000.00	110.45
PFDoA_1	613.0 / 569.0	3.61	1002.51	1000.00	100.25
PFDoA_2	613.0 / 319.0	3.61	943.94	1000.00	94.39
PFTrDA_1	663.0 / 619.0	3.86	1004.14	1000.00	100.41
PFTrDA_2	663.0 / 169.0	3.86	944.41	1000.00	94.44
PFTeDA_1	713.0 / 669.0	4.09	966.51	1000.00	96.65
PFTeDA_2	713.0 / 169.0	4.09	918.00	1000.00	91.80
NMeFOSAA_1	570.0 / 419.0	3.14	879.63	1000.00	87.96
NMeFOSAA_2	570.0 / 512.0	3.14	920.08	1000.00	92.01
NEtFOSAA_1	584.0 / 419.0	3.31	816.70	1000.00	81.67
NEtFOSAA_2	584.0 / 483.0	3.31	876.06	1000.00	87.61
HFPO-DA_1	285.0 / 169.0	1.67	1107.12	1000.00	110.71
HFPO-DA_2	285.0 / 118.8	1.67	1172.98	1000.00	117.30
ADONA_1	377.0 / 251.0	1.94	1010.81	1000.00	101.08
ADONA_2	377.0 / 85.0	1.94	1118.40	1000.00	111.84
9Cl-PF3ONS_1	531.0 / 351.0	2.85	935.28	1000.00	93.53
9Cl-PF3ONS_2	531.0 / 83.0	2.85	1209.04	1000.00	120.90
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	909.64	1000.00	90.96
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	840.94	1000.00	84.09

Sample Name	LE77 CCV	Injection Vial	27
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:29:16 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	2755.16	2500.00	110.21
PFBS_2	298.9 / 99.0	1.32	2756.86	2500.00	110.27
PFHxA_1	313.0 / 269.0	1.57	2489.90	2525.00	98.61
PFHxA_2	313.0 / 119.0	1.57	2384.69	2525.00	94.44
PFHpA_1	363.0 / 319.0	1.90	2676.80	2500.00	107.07
PFHpA_2	363.0 / 169.0	1.90	2845.37	2500.00	113.81
PFHxS_1	399.0 / 80.0	1.91	2527.90	2525.00	100.11
PFHxS_2	399.0 / 99.0	1.91	2551.64	2525.00	101.05
PFOA_1	413.0 / 369.0	2.26	2391.04	2500.00	95.64
PFOA_2	413.0 / 169.0	2.26	2449.81	2500.00	97.99
PFNA_1	463.0 / 419.0	2.63	2755.41	2500.00	110.22
PFNA_2	463.0 / 219.0	2.63	2810.42	2500.00	112.42
PFOS_1	499.0 / 80.0	2.63	2255.52	2525.00	89.33
PFOS_2	499.0 / 99.0	2.63	2365.72	2525.00	93.69
PFDA_1	513.0 / 469.0	2.99	2600.47	2500.00	104.02
PFDA_2	513.0 / 219.0	2.99	2473.55	2500.00	98.94
PFUnA_1	563.0 / 519.0	3.31	2639.34	2500.00	105.57
PFUnA_2	563.0 / 269.0	3.31	2630.29	2500.00	105.21
PFDoA_1	613.0 / 569.0	3.60	2814.16	2500.00	112.57
PFDoA_2	613.0 / 319.0	3.60	2713.53	2500.00	108.54
PFTrDA_1	663.0 / 619.0	3.86	2690.60	2500.00	107.62
PFTrDA_2	663.0 / 169.0	3.86	2638.99	2500.00	105.56
PFTeDA_1	713.0 / 669.0	4.09	2638.80	2500.00	105.55
PFTeDA_2	713.0 / 169.0	4.09	2521.84	2500.00	100.87
NMeFOSAA_1	570.0 / 419.0	3.13	2123.00	2500.00	84.92
NMeFOSAA_2	570.0 / 512.0	3.13	2262.91	2500.00	90.52
NEtFOSAA_1	584.0 / 419.0	3.30	2296.26	2500.00	91.85
NEtFOSAA_2	584.0 / 483.0	3.30	2260.25	2500.00	90.41
HFPO-DA_1	285.0 / 169.0	1.66	2983.94	2500.00	119.36
HFPO-DA_2	285.0 / 118.8	1.66	2953.00	2500.00	118.12
ADONA_1	377.0 / 251.0	1.93	2619.20	2500.00	104.77
ADONA_2	377.0 / 85.0	1.93	2648.21	2500.00	105.93
9Cl-PF3ONS_1	531.0 / 351.0	2.84	2385.14	2500.00	95.41
9Cl-PF3ONS_2	531.0 / 83.0	2.83	2524.60	2500.00	100.98
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	2533.18	2500.00	101.33
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	2857.66	2500.00	114.31

Sample Name	LE76 CCV	Injection Vial	38
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:24:22 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.33	1067.38	1000.00	106.74
PFBS_2	298.9 / 99.0	1.32	1026.10	1000.00	102.61
PFHxA_1	313.0 / 269.0	1.58	983.86	1010.00	97.41
PFHxA_2	313.0 / 119.0	1.58	908.92	1010.00	89.99
PFHpA_1	363.0 / 319.0	1.91	976.88	1000.00	97.69
PFHpA_2	363.0 / 169.0	1.91	1005.74	1000.00	100.57
PFHxS_1	399.0 / 80.0	1.92	941.46	1010.00	93.21
PFHxS_2	399.0 / 99.0	1.92	1001.80	1010.00	99.19
PFOA_1	413.0 / 369.0	2.27	981.17	1000.00	98.12
PFOA_2	413.0 / 169.0	2.27	1078.53	1000.00	107.85
PFNA_1	463.0 / 419.0	2.64	1075.82	1000.00	107.58
PFNA_2	463.0 / 219.0	2.64	1032.55	1000.00	103.25
PFOS_1	499.0 / 80.0	2.63	967.61	1010.00	95.80
PFOS_2	499.0 / 99.0	2.63	948.90	1010.00	93.95
PFDA_1	513.0 / 469.0	2.99	985.01	1000.00	98.50
PFDA_2	513.0 / 219.0	2.99	1052.49	1000.00	105.25
PFUnA_1	563.0 / 519.0	3.31	941.58	1000.00	94.16
PFUnA_2	563.0 / 269.0	3.31	923.13	1000.00	92.31
PFDoA_1	613.0 / 569.0	3.60	1051.45	1000.00	105.14
PFDoA_2	613.0 / 319.0	3.60	1071.91	1000.00	107.19
PFTrDA_1	663.0 / 619.0	3.85	1003.05	1000.00	100.30
PFTrDA_2	663.0 / 169.0	3.85	980.21	1000.00	98.02
PFTeDA_1	713.0 / 669.0	4.09	944.32	1000.00	94.43
PFTeDA_2	713.0 / 169.0	4.09	929.96	1000.00	93.00
NMeFOSAA_1	570.0 / 419.0	3.14	813.50	1000.00	81.35
NMeFOSAA_2	570.0 / 512.0	3.13	926.93	1000.00	92.69
NEtFOSAA_1	584.0 / 419.0	3.30	963.43	1000.00	96.34
NEtFOSAA_2	584.0 / 483.0	3.30	1014.03	1000.00	101.40
HFPO-DA_1	285.0 / 169.0	1.66	1230.76	1000.00	123.08
HFPO-DA_2	285.0 / 118.8	1.66	870.09	1000.00	87.01
ADONA_1	377.0 / 251.0	1.94	937.09	1000.00	93.71
ADONA_2	377.0 / 85.0	1.94	930.57	1000.00	93.06
9Cl-PF3ONS_1	531.0 / 351.0	2.84	953.21	1000.00	95.32
9Cl-PF3ONS_2	531.0 / 83.0	2.85	852.87	1000.00	85.29
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	976.85	1000.00	97.69
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	864.03	1000.00	86.40

Sample Name	LE77 CCV	Injection Vial	49
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:19:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	2573.90	2500.00	102.96
PFBS_2	298.9 / 99.0	1.32	2591.31	2500.00	103.65
PFHxA_1	313.0 / 269.0	1.55	2484.23	2525.00	98.39
PFHxA_2	313.0 / 119.0	1.55	2594.74	2525.00	102.76
PFHpA_1	363.0 / 319.0	1.87	2599.55	2500.00	103.98
PFHpA_2	363.0 / 169.0	1.87	2697.32	2500.00	107.89
PFHxS_1	399.0 / 80.0	1.88	2596.72	2525.00	102.84
PFHxS_2	399.0 / 99.0	1.88	2578.40	2525.00	102.11
PFOA_1	413.0 / 369.0	2.23	2310.44	2500.00	92.42
PFOA_2	413.0 / 169.0	2.23	2519.85	2500.00	100.79
PFNA_1	463.0 / 419.0	2.60	2804.92	2500.00	112.20
PFNA_2	463.0 / 219.0	2.60	2727.82	2500.00	109.11
PFOS_1	499.0 / 80.0	2.59	2666.22	2525.00	105.59
PFOS_2	499.0 / 99.0	2.59	2910.56	2525.00	115.27
PFDA_1	513.0 / 469.0	2.96	2473.97	2500.00	98.96
PFDA_2	513.0 / 219.0	2.96	2489.71	2500.00	99.59
PFUnA_1	563.0 / 519.0	3.28	2449.34	2500.00	97.97
PFUnA_2	563.0 / 269.0	3.28	2383.90	2500.00	95.36
PFDoA_1	613.0 / 569.0	3.58	2740.41	2500.00	109.62
PFDoA_2	613.0 / 319.0	3.58	2753.83	2500.00	110.15
PFTrDA_1	663.0 / 619.0	3.84	2649.06	2500.00	105.96
PFTrDA_2	663.0 / 169.0	3.84	2464.97	2500.00	98.60
PFTeDA_1	713.0 / 669.0	4.08	2525.84	2500.00	101.03
PFTeDA_2	713.0 / 169.0	4.08	2488.14	2500.00	99.53
NMeFOSAA_1	570.0 / 419.0	3.11	2217.07	2500.00	88.68
NMeFOSAA_2	570.0 / 512.0	3.10	2421.71	2500.00	96.87
NEtFOSAA_1	584.0 / 419.0	3.27	2314.34	2500.00	92.57
NEtFOSAA_2	584.0 / 483.0	3.27	2540.12	2500.00	101.60
HFPO-DA_1	285.0 / 169.0	1.64	3244.36	2500.00	129.77
HFPO-DA_2	285.0 / 118.8	1.64	3058.92	2500.00	122.36
ADONA_1	377.0 / 251.0	1.90	2761.58	2500.00	110.46
ADONA_2	377.0 / 85.0	1.90	2454.17	2500.00	98.17
9Cl-PF3ONS_1	531.0 / 351.0	2.80	2386.43	2500.00	95.46
9Cl-PF3ONS_2	531.0 / 83.0	2.80	2504.80	2500.00	100.19
11Cl-pf3OUdS_1	631.0 / 451.0	3.44	2478.08	2500.00	99.12
11Cl-pf3OUdS_2	631.0 / 83.0	3.44	2991.93	2500.00	119.68

Sample Name	LE76 CCV	Injection Vial	1
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:22:20 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.33	1110.32	1000.00	111.03
PFBS_2	298.9 / 99.0	1.33	1129.51	1000.00	112.95
PFHxA_1	313.0 / 269.0	1.58	953.68	1010.00	94.42
PFHxA_2	313.0 / 119.0	1.58	905.62	1010.00	89.67
PFHpA_1	363.0 / 319.0	1.91	966.19	1000.00	96.62
PFHpA_2	363.0 / 169.0	1.91	998.13	1000.00	99.81
PFHxS_1	399.0 / 80.0	1.91	976.08	1010.00	96.64
PFHxS_2	399.0 / 99.0	1.91	949.72	1010.00	94.03
PFOA_1	413.0 / 369.0	2.26	864.90	1000.00	86.49
PFOA_2	413.0 / 169.0	2.26	1059.09	1000.00	105.91
PFNA_1	463.0 / 419.0	2.62	951.40	1000.00	95.14
PFNA_2	463.0 / 219.0	2.62	979.02	1000.00	97.90
PFOS_1	499.0 / 80.0	2.61	1005.70	1010.00	99.57
PFOS_2	499.0 / 99.0	2.61	1027.99	1010.00	101.78
PFDA_1	513.0 / 469.0	2.95	959.24	1000.00	95.92
PFDA_2	513.0 / 219.0	2.95	947.37	1000.00	94.74
PFUnA_1	563.0 / 519.0	3.26	988.25	1000.00	98.82
PFUnA_2	563.0 / 269.0	3.26	948.62	1000.00	94.86
PFDoA_1	613.0 / 569.0	3.53	1016.62	1000.00	101.66
PFDoA_2	613.0 / 319.0	3.53	1001.78	1000.00	100.18
PFTrDA_1	663.0 / 619.0	3.77	957.65	1000.00	95.76
PFTrDA_2	663.0 / 169.0	3.77	974.65	1000.00	97.46
PFTeDA_1	713.0 / 669.0	4.01	960.89	1000.00	96.09
PFTeDA_2	713.0 / 169.0	4.01	945.59	1000.00	94.56
NMeFOSAA_1	570.0 / 419.0	3.09	871.68	1000.00	87.17
NMeFOSAA_2	570.0 / 512.0	3.09	800.57	1000.00	80.06
NEtFOSAA_1	584.0 / 419.0	3.25	944.95	1000.00	94.49
NEtFOSAA_2	584.0 / 483.0	3.25	875.35	1000.00	87.54
HFPO-DA_1	285.0 / 169.0	1.66	1188.88	1000.00	118.89
HFPO-DA_2	285.0 / 118.8	1.66	1258.58	1000.00	125.86
ADONA_1	377.0 / 251.0	1.94	997.05	1000.00	99.71
ADONA_2	377.0 / 85.0	1.94	1004.61	1000.00	100.46
9Cl-PF3ONS_1	531.0 / 351.0	2.81	914.89	1000.00	91.49
9Cl-PF3ONS_2	531.0 / 83.0	2.81	1013.44	1000.00	101.34
11Cl-pf3OUdS_1	631.0 / 451.0	3.40	926.90	1000.00	92.69
11Cl-pf3OUdS_2	631.0 / 83.0	3.39	925.23	1000.00	92.52

Sample Name	LE77 CCV	Injection Vial	9
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:46:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.33	2702.14	2500.00	108.09
PFBS_2	298.9 / 99.0	1.33	2603.04	2500.00	104.12
PFHxA_1	313.0 / 269.0	1.58	2496.82	2525.00	98.88
PFHxA_2	313.0 / 119.0	1.58	2379.06	2525.00	94.22
PFHpA_1	363.0 / 319.0	1.91	2475.19	2500.00	99.01
PFHpA_2	363.0 / 169.0	1.91	2552.65	2500.00	102.11
PFHxS_1	399.0 / 80.0	1.91	2411.90	2525.00	95.52
PFHxS_2	399.0 / 99.0	1.92	2499.07	2525.00	98.97
PFOA_1	413.0 / 369.0	2.27	2489.69	2500.00	99.59
PFOA_2	413.0 / 169.0	2.27	2751.69	2500.00	110.07
PFNA_1	463.0 / 419.0	2.63	2580.60	2500.00	103.22
PFNA_2	463.0 / 219.0	2.63	2751.83	2500.00	110.07
PFOS_1	499.0 / 80.0	2.63	2349.08	2525.00	93.03
PFOS_2	499.0 / 99.0	2.63	2306.01	2525.00	91.33
PFDA_1	513.0 / 469.0	2.99	2469.16	2500.00	98.77
PFDA_2	513.0 / 219.0	2.99	2290.04	2500.00	91.60
PFUnA_1	563.0 / 519.0	3.30	2524.52	2500.00	100.98
PFUnA_2	563.0 / 269.0	3.30	2436.91	2500.00	97.48
PFDoA_1	613.0 / 569.0	3.59	2682.86	2500.00	107.31
PFDoA_2	613.0 / 319.0	3.59	2672.32	2500.00	106.89
PFTrDA_1	663.0 / 619.0	3.84	2765.64	2500.00	110.63
PFTrDA_2	663.0 / 169.0	3.84	2613.81	2500.00	104.55
PFTeDA_1	713.0 / 669.0	4.07	2537.61	2500.00	101.50
PFTeDA_2	713.0 / 169.0	4.07	2494.51	2500.00	99.78
NMeFOSAA_1	570.0 / 419.0	3.13	2165.20	2500.00	86.61
NMeFOSAA_2	570.0 / 512.0	3.13	2381.11	2500.00	95.24
NEtFOSAA_1	584.0 / 419.0	3.29	2432.61	2500.00	97.30
NEtFOSAA_2	584.0 / 483.0	3.29	2694.44	2500.00	107.78
HFPO-DA_1	285.0 / 169.0	1.66	3201.67	2500.00	128.07
HFPO-DA_2	285.0 / 118.8	1.66	3059.62	2500.00	122.38
ADONA_1	377.0 / 251.0	1.94	2661.97	2500.00	106.48
ADONA_2	377.0 / 85.0	1.94	2462.52	2500.00	98.50
9Cl-PF3ONS_1	531.0 / 351.0	2.83	2480.33	2500.00	99.21
9Cl-PF3ONS_2	531.0 / 83.0	2.83	2394.97	2500.00	95.80
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	2602.05	2500.00	104.08
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	2787.02	2500.00	111.48

Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:10:43 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	1065.85	1000.00	106.59
PFBS_2	298.9 / 99.0	1.32	929.94	1000.00	92.99
PFHxA_1	313.0 / 269.0	1.56	972.13	1010.00	96.25
PFHxA_2	313.0 / 119.0	1.56	981.79	1010.00	97.21
PFHpA_1	363.0 / 319.0	1.88	1085.85	1000.00	108.58
PFHpA_2	363.0 / 169.0	1.88	971.46	1000.00	97.15
PFHxS_1	399.0 / 80.0	1.88	972.76	1010.00	96.31
PFHxS_2	399.0 / 99.0	1.88	966.20	1010.00	95.66
PFOA_1	413.0 / 369.0	2.23	958.24	1000.00	95.82
PFOA_2	413.0 / 169.0	2.23	1093.34	1000.00	109.33
PFNA_1	463.0 / 419.0	2.59	1020.71	1000.00	102.07
PFNA_2	463.0 / 219.0	2.59	996.19	1000.00	99.62
PFOS_1	499.0 / 80.0	2.58	960.34	1010.00	95.08
PFOS_2	499.0 / 99.0	2.58	934.03	1010.00	92.48
PFDA_1	513.0 / 469.0	2.94	931.02	1000.00	93.10
PFDA_2	513.0 / 219.0	2.94	931.74	1000.00	93.17
PFUnA_1	563.0 / 519.0	3.26	956.74	1000.00	95.67
PFUnA_2	563.0 / 269.0	3.26	937.83	1000.00	93.78
PFDoA_1	613.0 / 569.0	3.56	957.71	1000.00	95.77
PFDoA_2	613.0 / 319.0	3.56	946.62	1000.00	94.66
PFTrDA_1	663.0 / 619.0	3.82	974.21	1000.00	97.42
PFTrDA_2	663.0 / 169.0	3.82	925.98	1000.00	92.60
PFTeDA_1	713.0 / 669.0	4.06	973.77	1000.00	97.38
PFTeDA_2	713.0 / 169.0	4.06	979.05	1000.00	97.90
NMeFOSAA_1	570.0 / 419.0	3.09	929.75	1000.00	92.97
NMeFOSAA_2	570.0 / 512.0	3.09	992.61	1000.00	99.26
NEtFOSAA_1	584.0 / 419.0	3.25	863.37	1000.00	86.34
NEtFOSAA_2	584.0 / 483.0	3.26	946.71	1000.00	94.67
HFPO-DA_1	285.0 / 169.0	1.64	1154.91	1000.00	115.49
HFPO-DA_2	285.0 / 118.8	1.64	1232.56	1000.00	123.26
ADONA_1	377.0 / 251.0	1.91	1019.76	1000.00	101.98
ADONA_2	377.0 / 85.0	1.91	1084.20	1000.00	108.42
9Cl-PF3ONS_1	531.0 / 351.0	2.79	869.39	1000.00	86.94
9Cl-PF3ONS_2	531.0 / 83.0	2.79	792.19	1000.00	79.22
11Cl-pf3OUdS_1	631.0 / 451.0	3.42	961.01	1000.00	96.10
11Cl-pf3OUdS_2	631.0 / 83.0	3.41	887.82	1000.00	88.78

Sample Name	LE77 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:34:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	2863.58	2500.00	114.54
PFBS_2	298.9 / 99.0	1.32	2745.02	2500.00	109.80
PFHxA_1	313.0 / 269.0	1.57	2341.07	2525.00	92.72
PFHxA_2	313.0 / 119.0	1.57	2189.14	2525.00	86.70
PFHpA_1	363.0 / 319.0	1.90	2573.91	2500.00	102.96
PFHpA_2	363.0 / 169.0	1.90	2846.84	2500.00	113.87
PFHxS_1	399.0 / 80.0	1.91	2365.52	2525.00	93.68
PFHxS_2	399.0 / 99.0	1.91	2402.57	2525.00	95.15
PFOA_1	413.0 / 369.0	2.27	2747.95	2500.00	109.92
PFOA_2	413.0 / 169.0	2.26	2983.11	2500.00	119.32
PFNA_1	463.0 / 419.0	2.64	2705.20	2500.00	108.21
PFNA_2	463.0 / 219.0	2.64	2702.51	2500.00	108.10
PFOS_1	499.0 / 80.0	2.63	2637.84	2525.00	104.47
PFOS_2	499.0 / 99.0	2.63	2647.22	2525.00	104.84
PFDA_1	513.0 / 469.0	2.99	2519.44	2500.00	100.78
PFDA_2	513.0 / 219.0	2.99	2333.67	2500.00	93.35
PFUnA_1	563.0 / 519.0	3.31	2479.97	2500.00	99.20
PFUnA_2	563.0 / 269.0	3.31	2321.95	2500.00	92.88
PFDoA_1	613.0 / 569.0	3.59	2673.43	2500.00	106.94
PFDoA_2	613.0 / 319.0	3.59	2543.03	2500.00	101.72
PFTrDA_1	663.0 / 619.0	3.84	2822.27	2500.00	112.89
PFTrDA_2	663.0 / 169.0	3.84	2709.77	2500.00	108.39
PFTeDA_1	713.0 / 669.0	4.07	2637.54	2500.00	105.50
PFTeDA_2	713.0 / 169.0	4.06	2589.64	2500.00	103.59
NMeFOSAA_1	570.0 / 419.0	3.13	2192.63	2500.00	87.71
NMeFOSAA_2	570.0 / 512.0	3.13	2260.40	2500.00	90.42
NEtFOSAA_1	584.0 / 419.0	3.29	2377.21	2500.00	95.09
NEtFOSAA_2	584.0 / 483.0	3.30	2483.15	2500.00	99.33
HFPO-DA_1	285.0 / 169.0	1.66	3218.78	2500.00	128.75
HFPO-DA_2	285.0 / 118.8	1.66	3022.05	2500.00	120.88
ADONA_1	377.0 / 251.0	1.94	2504.18	2500.00	100.17
ADONA_2	377.0 / 85.0	1.94	2612.52	2500.00	104.50
9Cl-PF3ONS_1	531.0 / 351.0	2.84	2147.68	2500.00	85.91
9Cl-PF3ONS_2	531.0 / 83.0	2.84	2244.61	2500.00	89.78
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	2510.79	2500.00	100.43
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	2455.97	2500.00	98.24

Sample Name	LE76 CCV	Injection Vial	34
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 11:09:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	1070.03	1000.00	107.00
PFBS_2	298.9 / 99.0	1.32	1026.36	1000.00	102.64
PFHxA_1	313.0 / 269.0	1.57	1017.81	1010.00	100.77
PFHxA_2	313.0 / 119.0	1.57	1029.62	1010.00	101.94
PFHpA_1	363.0 / 319.0	1.89	970.07	1000.00	97.01
PFHpA_2	363.0 / 169.0	1.89	1099.65	1000.00	109.97
PFHxS_1	399.0 / 80.0	1.90	987.99	1010.00	97.82
PFHxS_2	399.0 / 99.0	1.90	1072.71	1010.00	106.21
PFOA_1	413.0 / 369.0	2.25	867.59	1000.00	86.76
PFOA_2	413.0 / 169.0	2.25	969.80	1000.00	96.98
PFNA_1	463.0 / 419.0	2.62	978.42	1000.00	97.84
PFNA_2	463.0 / 219.0	2.61	1031.80	1000.00	103.18
PFOS_1	499.0 / 80.0	2.61	1090.98	1010.00	108.02
PFOS_2	499.0 / 99.0	2.61	1076.07	1010.00	106.54
PFDA_1	513.0 / 469.0	2.96	949.36	1000.00	94.94
PFDA_2	513.0 / 219.0	2.96	1054.19	1000.00	105.42
PFUnA_1	563.0 / 519.0	3.28	991.75	1000.00	99.18
PFUnA_2	563.0 / 269.0	3.28	964.77	1000.00	96.48
PFDoA_1	613.0 / 569.0	3.56	1018.73	1000.00	101.87
PFDoA_2	613.0 / 319.0	3.56	981.56	1000.00	98.16
PFTrDA_1	663.0 / 619.0	3.81	990.21	1000.00	99.02
PFTrDA_2	663.0 / 169.0	3.81	1057.96	1000.00	105.80
PFTeDA_1	713.0 / 669.0	4.05	949.42	1000.00	94.94
PFTeDA_2	713.0 / 169.0	4.05	1040.94	1000.00	104.09
NMeFOSAA_1	570.0 / 419.0	3.10	921.30	1000.00	92.13
NMeFOSAA_2	570.0 / 512.0	3.10	925.26	1000.00	92.53
NEtFOSAA_1	584.0 / 419.0	3.26	973.21	1000.00	97.32
NEtFOSAA_2	584.0 / 483.0	3.26	919.49	1000.00	91.95
HFPO-DA_1	285.0 / 169.0	1.66	1257.41	1000.00	125.74
HFPO-DA_2	285.0 / 118.8	1.65	1428.42	1000.00	142.84
ADONA_1	377.0 / 251.0	1.93	1138.43	1000.00	113.84
ADONA_2	377.0 / 85.0	1.92	1170.80	1000.00	117.08
9Cl-PF3ONS_1	531.0 / 351.0	2.81	915.48	1000.00	91.55
9Cl-PF3ONS_2	531.0 / 83.0	2.81	1190.66	1000.00	119.07
11Cl-pf3OUdS_1	631.0 / 451.0	3.43	977.42	1000.00	97.74
11Cl-pf3OUdS_2	631.0 / 83.0	3.43	969.00	1000.00	96.90

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	11/10/2020 9:20:54 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1205.45	1250.00	96.44
d3-MeFOSAA	573.0 / 419.0	3.14	1191.69	1250.00	95.34
d5-EtFOSAA	589.0 / 419.0	3.31	1346.74	1250.00	107.74
13C5-PFHxA	318.0 / 273.0	1.57	1116.80	1250.00	89.34
13C4-PFHpA	367.0 / 322.0	1.90	1133.93	1250.00	90.71
13C8-PFOA	421.0 / 376.0	2.26	1191.08	1222.50	97.43
13C9-PFNA	472.0 / 427.0	2.63	1110.21	1250.00	88.82
13C6-PFDA	519.0 / 474.0	2.99	1311.34	1250.00	104.91
13C7-PFUnA	570.0 / 525.0	3.32	1277.63	1250.00	102.21
13C2-PFTeDA	715.0 / 670.0	4.10	1220.04	1250.00	97.60
13C3-PFBS	302.0 / 99.0	1.32	1216.04	1162.50	104.61
13C3-PFHxS	402.0 / 99.0	1.91	1166.44	1182.50	98.64
13C8-PFOS	507.0 / 99.0	2.63	1290.34	1195.00	107.98
13C3-HFPO-DA	287.0 / 169.0	1.66	1088.58	1250.00	87.09

Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 10:44:35 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1277.66	1250.00	102.21
d3-MeFOSAA	573.0 / 419.0	3.14	1323.91	1250.00	105.91
d5-EtFOSAA	589.0 / 419.0	3.30	1515.01	1250.00	121.20
13C5-PFHxA	318.0 / 273.0	1.57	1260.62	1250.00	100.85
13C4-PFHpA	367.0 / 322.0	1.90	1226.95	1250.00	98.16
13C8-PFOA	421.0 / 376.0	2.27	1152.98	1222.50	94.31
13C9-PFNA	472.0 / 427.0	2.64	1245.08	1250.00	99.61
13C6-PFDA	519.0 / 474.0	2.99	1357.72	1250.00	108.62
13C7-PFUnA	570.0 / 525.0	3.32	1249.75	1250.00	99.98
13C2-PFTeDA	715.0 / 670.0	4.09	1264.60	1250.00	101.17
13C3-PFBS	302.0 / 99.0	1.32	1109.47	1162.50	95.44
13C3-PFHxS	402.0 / 99.0	1.91	1171.47	1182.50	99.07
13C8-PFOS	507.0 / 99.0	2.63	1241.73	1195.00	103.91
13C3-HFPO-DA	287.0 / 169.0	1.66	1020.86	1250.00	81.67

Sample Name	LE77 CCV	Injection Vial	27
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:29:16 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1118.01	1250.00	89.44
d3-MeFOSAA	573.0 / 419.0	3.13	1396.92	1250.00	111.75
d5-EtFOSAA	589.0 / 419.0	3.30	1414.77	1250.00	113.18
13C5-PFHxA	318.0 / 273.0	1.56	1275.01	1250.00	102.00
13C4-PFHpA	367.0 / 322.0	1.89	1221.94	1250.00	97.76
13C8-PFOA	421.0 / 376.0	2.25	1307.19	1222.50	106.93
13C9-PFNA	472.0 / 427.0	2.63	1240.58	1250.00	99.25
13C6-PFDA	519.0 / 474.0	2.98	1185.15	1250.00	94.81
13C7-PFUnA	570.0 / 525.0	3.31	1194.04	1250.00	95.52
13C2-PFTeDA	715.0 / 670.0	4.09	1167.92	1250.00	93.43
13C3-PFBS	302.0 / 99.0	1.31	1269.21	1162.50	109.18
13C3-PFHxS	402.0 / 99.0	1.90	1269.04	1182.50	107.32
13C8-PFOS	507.0 / 99.0	2.62	1387.64	1195.00	116.12
13C3-HFPO-DA	287.0 / 169.0	1.66	1060.04	1250.00	84.80

Sample Name	LE76 CCV	Injection Vial	38
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:24:22 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1202.92	1250.00	96.23
d3-MeFOSAA	573.0 / 419.0	3.13	1199.71	1250.00	95.98
d5-EtFOSAA	589.0 / 419.0	3.30	1224.37	1250.00	97.95
13C5-PFHxA	318.0 / 273.0	1.57	1165.49	1250.00	93.24
13C4-PFHpA	367.0 / 322.0	1.90	1193.65	1250.00	95.49
13C8-PFOA	421.0 / 376.0	2.26	1063.13	1222.50	86.96
13C9-PFNA	472.0 / 427.0	2.63	1073.16	1250.00	85.85
13C6-PFDA	519.0 / 474.0	2.99	1259.35	1250.00	100.75
13C7-PFUnA	570.0 / 525.0	3.31	1346.96	1250.00	107.76
13C2-PFTeDA	715.0 / 670.0	4.08	1251.67	1250.00	100.13
13C3-PFBS	302.0 / 99.0	1.31	1044.27	1162.50	89.83
13C3-PFHxS	402.0 / 99.0	1.91	1107.11	1182.50	93.62
13C8-PFOS	507.0 / 99.0	2.63	1113.31	1195.00	93.16
13C3-HFPO-DA	287.0 / 169.0	1.66	926.57	1250.00	74.13

Sample Name	LE77 CCV	Injection Vial	49
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:19:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.58	1277.95	1250.00	102.24
d3-MeFOSAA	573.0 / 419.0	3.10	1377.09	1250.00	110.17
d5-EtFOSAA	589.0 / 419.0	3.27	1469.42	1250.00	117.55
13C5-PFHxA	318.0 / 273.0	1.54	1215.77	1250.00	97.26
13C4-PFHpA	367.0 / 322.0	1.86	1159.45	1250.00	92.76
13C8-PFOA	421.0 / 376.0	2.22	1225.48	1222.50	100.24
13C9-PFNA	472.0 / 427.0	2.59	1048.23	1250.00	83.86
13C6-PFDA	519.0 / 474.0	2.95	1268.00	1250.00	101.44
13C7-PFUnA	570.0 / 525.0	3.28	1421.05	1250.00	113.68
13C2-PFTeDA	715.0 / 670.0	4.07	1300.32	1250.00	104.03
13C3-PFBS	302.0 / 99.0	1.31	1311.21	1162.50	112.79
13C3-PFHxS	402.0 / 99.0	1.87	1237.27	1182.50	104.63
13C8-PFOS	507.0 / 99.0	2.59	1126.80	1195.00	94.29
13C3-HFPO-DA	287.0 / 169.0	1.63	978.10	1250.00	78.25

Sample Name	LE76 CCV	Injection Vial	1
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:22:20 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.53	1308.16	1250.00	104.65
d3-MeFOSAA	573.0 / 419.0	3.09	1358.77	1250.00	108.70
d5-EtFOSAA	589.0 / 419.0	3.24	1345.94	1250.00	107.68
13C5-PFHxA	318.0 / 273.0	1.57	1260.05	1250.00	100.80
13C4-PFHpA	367.0 / 322.0	1.89	1229.22	1250.00	98.34
13C8-PFOA	421.0 / 376.0	2.25	1220.67	1222.50	99.85
13C9-PFNA	472.0 / 427.0	2.61	1206.73	1250.00	96.54
13C6-PFDA	519.0 / 474.0	2.95	1333.13	1250.00	106.65
13C7-PFUnA	570.0 / 525.0	3.25	1392.42	1250.00	111.39
13C2-PFTeDA	715.0 / 670.0	4.01	1267.45	1250.00	101.40
13C3-PFBS	302.0 / 99.0	1.32	1032.11	1162.50	88.78
13C3-PFHxS	402.0 / 99.0	1.91	1179.58	1182.50	99.75
13C8-PFOS	507.0 / 99.0	2.60	1131.82	1195.00	94.71
13C3-HFPO-DA	287.0 / 169.0	1.66	999.42	1250.00	79.95

Sample Name	LE77 CCV	Injection Vial	9
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:46:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1200.06	1250.00	96.01
d3-MeFOSAA	573.0 / 419.0	3.12	1283.00	1250.00	102.64
d5-EtFOSAA	589.0 / 419.0	3.29	1300.95	1250.00	104.08
13C5-PFHxA	318.0 / 273.0	1.56	1228.17	1250.00	98.25
13C4-PFHpA	367.0 / 322.0	1.90	1176.66	1250.00	94.13
13C8-PFOA	421.0 / 376.0	2.26	1146.67	1222.50	93.80
13C9-PFNA	472.0 / 427.0	2.63	1197.59	1250.00	95.81
13C6-PFDA	519.0 / 474.0	2.98	1266.71	1250.00	101.34
13C7-PFUnA	570.0 / 525.0	3.30	1281.46	1250.00	102.52
13C2-PFTeDA	715.0 / 670.0	4.06	1232.95	1250.00	98.64
13C3-PFBS	302.0 / 99.0	1.32	1190.12	1162.50	102.38
13C3-PFHxS	402.0 / 99.0	1.91	1170.78	1182.50	99.01
13C8-PFOS	507.0 / 99.0	2.63	1251.17	1195.00	104.70
13C3-HFPO-DA	287.0 / 169.0	1.66	961.91	1250.00	76.95

Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:10:43 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1270.30	1250.00	101.62
d3-MeFOSAA	573.0 / 419.0	3.08	1315.23	1250.00	105.22
d5-EtFOSAA	589.0 / 419.0	3.25	1420.80	1250.00	113.66
13C5-PFHxA	318.0 / 273.0	1.55	1141.37	1250.00	91.31
13C4-PFHpA	367.0 / 322.0	1.87	1051.07	1250.00	84.09
13C8-PFOA	421.0 / 376.0	2.22	1131.00	1222.50	92.52
13C9-PFNA	472.0 / 427.0	2.58	1065.74	1250.00	85.26
13C6-PFDA	519.0 / 474.0	2.93	1258.31	1250.00	100.66
13C7-PFUnA	570.0 / 525.0	3.26	1290.32	1250.00	103.23
13C2-PFTeDA	715.0 / 670.0	4.06	1222.97	1250.00	97.84
13C3-PFBS	302.0 / 99.0	1.30	1233.90	1162.50	106.14
13C3-PFHxS	402.0 / 99.0	1.88	1190.58	1182.50	100.68
13C8-PFOS	507.0 / 99.0	2.58	1212.55	1195.00	101.47
13C3-HFPO-DA	287.0 / 169.0	1.64	933.82	1250.00	74.71

Sample Name	LE77 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:34:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1345.83	1250.00	107.67
d3-MeFOSAA	573.0 / 419.0	3.13	1271.08	1250.00	101.69
d5-EtFOSAA	589.0 / 419.0	3.29	1290.11	1250.00	103.21
13C5-PFHxA	318.0 / 273.0	1.56	1283.13	1250.00	102.65
13C4-PFHpA	367.0 / 322.0	1.89	1179.54	1250.00	94.36
13C8-PFOA	421.0 / 376.0	2.26	1125.17	1222.50	92.04
13C9-PFNA	472.0 / 427.0	2.63	1167.73	1250.00	93.42
13C6-PFDA	519.0 / 474.0	2.99	1308.25	1250.00	104.66
13C7-PFUnA	570.0 / 525.0	3.30	1441.44	1250.00	115.32
13C2-PFTeDA	715.0 / 670.0	4.06	1343.38	1250.00	107.47
13C3-PFBS	302.0 / 99.0	1.31	1113.68	1162.50	95.80
13C3-PFHxS	402.0 / 99.0	1.90	1205.96	1182.50	101.98
13C8-PFOS	507.0 / 99.0	2.63	1095.96	1195.00	91.71
13C3-HFPO-DA	287.0 / 169.0	1.66	971.40	1250.00	77.71

Sample Name	LE76 CCV	Injection Vial	34
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 11:09:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1246.75	1250.00	99.74
d3-MeFOSAA	573.0 / 419.0	3.10	1203.47	1250.00	96.28
d5-EtFOSAA	589.0 / 419.0	3.26	1183.84	1250.00	94.71
13C5-PFHxA	318.0 / 273.0	1.56	1091.97	1250.00	87.36
13C4-PFHpA	367.0 / 322.0	1.89	1130.93	1250.00	90.47
13C8-PFOA	421.0 / 376.0	2.24	1142.31	1222.50	93.44
13C9-PFNA	472.0 / 427.0	2.61	1099.98	1250.00	88.00
13C6-PFDA	519.0 / 474.0	2.95	1343.74	1250.00	107.50
13C7-PFUnA	570.0 / 525.0	3.27	1279.82	1250.00	102.39
13C2-PFTeDA	715.0 / 670.0	4.04	1230.56	1250.00	98.44
13C3-PFBS	302.0 / 99.0	1.31	1075.49	1162.50	92.52
13C3-PFHxS	402.0 / 99.0	1.90	1007.27	1182.50	85.18
13C8-PFOS	507.0 / 99.0	2.60	1046.45	1195.00	87.57
13C3-HFPO-DA	287.0 / 169.0	1.65	888.12	1250.00	71.05

Sample Name	LE59 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:26:38 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	2547.61	2500.00	101.90
PFBS_2	298.9 / 99.0	1.32	2518.48	2500.00	100.74
PFHxA_1	313.0 / 269.0	1.56	2526.37	2525.00	100.05
PFHxA_2	313.0 / 119.0	1.56	2235.67	2525.00	88.54
PFHpA_1	363.0 / 319.0	1.89	2151.05	2500.00	86.04
PFHpA_2	363.0 / 169.0	1.89	2159.47	2500.00	86.38
PFHxS_1	399.0 / 80.0	1.90	2535.80	2525.00	100.43
PFHxS_2	399.0 / 99.0	1.90	2525.84	2525.00	100.03
PFOA_1	413.0 / 369.0	2.25	2430.69	2500.00	97.23
PFOA_2	413.0 / 169.0	2.25	2269.74	2500.00	90.79
PFNA_1	463.0 / 419.0	2.62	2315.65	2500.00	92.63
PFNA_2	463.0 / 219.0	2.62	2326.82	2500.00	93.07
PFOS_1	499.0 / 80.0	2.61	2273.17	2525.00	90.03
PFOS_2	499.0 / 99.0	2.62	2320.11	2525.00	91.89
PFDA_1	513.0 / 469.0	2.98	2385.88	2500.00	95.44
PFDA_2	513.0 / 219.0	2.98	2448.42	2500.00	97.94
PFUnA_1	563.0 / 519.0	3.30	2232.62	2500.00	89.30
PFUnA_2	563.0 / 269.0	3.30	2211.43	2500.00	88.46
PFDoA_1	613.0 / 569.0	3.59	2515.91	2500.00	100.64
PFDoA_2	613.0 / 319.0	3.59	2369.60	2500.00	94.78
PFTrDA_1	663.0 / 619.0	3.85	2472.31	2500.00	98.89
PFTrDA_2	663.0 / 169.0	3.85	2327.95	2500.00	93.12
PFTeDA_1	713.0 / 669.0	4.08	2427.82	2500.00	97.11
PFTeDA_2	713.0 / 169.0	4.08	2349.24	2500.00	93.97
NMeFOSAA_1	570.0 / 419.0	3.12	2457.20	2500.00	98.29
NMeFOSAA_2	570.0 / 512.0	3.12	2311.07	2500.00	92.44
NEtFOSAA_1	584.0 / 419.0	3.29	2286.40	2500.00	91.46
NEtFOSAA_2	584.0 / 483.0	3.29	2177.57	2500.00	87.10
HFPO-DA_1	285.0 / 169.0	1.65	2390.40	2500.00	95.62
HFPO-DA_2	285.0 / 118.8	1.65	2251.07	2500.00	90.04
ADONA_1	377.0 / 251.0	1.92	2423.19	2500.00	96.93
ADONA_2	377.0 / 85.0	1.92	2236.12	2500.00	89.44
9Cl-PF3ONS_1	531.0 / 351.0	2.83	2525.50	2500.00	101.02
9Cl-PF3ONS_2	531.0 / 83.0	2.83	1908.47	2500.00	76.34
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	2437.40	2500.00	97.50
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	2228.86	2500.00	89.15

Sample Name	LE55 CCV	Injection Vial	19
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:11:33 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.33	2687.79	2500.00	107.51
PFBS_2	298.9 / 99.0	1.33	2686.36	2500.00	107.45
PFHxA_1	313.0 / 269.0	1.57	2606.12	2525.00	103.21
PFHxA_2	313.0 / 119.0	1.57	2487.13	2525.00	98.50
PFHpA_1	363.0 / 319.0	1.90	2521.65	2500.00	100.87
PFHpA_2	363.0 / 169.0	1.90	2134.81	2500.00	85.39
PFHxS_1	399.0 / 80.0	1.91	2617.06	2525.00	103.65
PFHxS_2	399.0 / 99.0	1.91	2509.77	2525.00	99.40
PFOA_1	413.0 / 369.0	2.26	2657.10	2500.00	106.28
PFOA_2	413.0 / 169.0	2.26	2393.17	2500.00	95.73
PFNA_1	463.0 / 419.0	2.63	2627.40	2500.00	105.10
PFNA_2	463.0 / 219.0	2.63	2785.83	2500.00	111.43
PFOS_1	499.0 / 80.0	2.63	2397.07	2525.00	94.93
PFOS_2	499.0 / 99.0	2.63	2384.11	2525.00	94.42
PFDA_1	513.0 / 469.0	2.98	2820.37	2500.00	112.81
PFDA_2	513.0 / 219.0	2.98	2709.77	2500.00	108.39
PFUnA_1	563.0 / 519.0	3.30	2775.80	2500.00	111.03
PFUnA_2	563.0 / 269.0	3.30	2560.77	2500.00	102.43
PFDoA_1	613.0 / 569.0	3.59	2706.71	2500.00	108.27
PFDoA_2	613.0 / 319.0	3.59	2412.83	2500.00	96.51
PFTTrDA_1	663.0 / 619.0	3.85	2691.00	2500.00	107.64
PFTTrDA_2	663.0 / 169.0	3.84	2437.60	2500.00	97.50
PFTeDA_1	713.0 / 669.0	4.08	2603.85	2500.00	104.15
PFTeDA_2	713.0 / 169.0	4.08	2544.44	2500.00	101.78
NMeFOSAA_1	570.0 / 419.0	3.13	2331.97	2500.00	93.28
NMeFOSAA_2	570.0 / 512.0	3.12	2290.64	2500.00	91.63
NEtFOSAA_1	584.0 / 419.0	3.29	2747.30	2500.00	109.89
NEtFOSAA_2	584.0 / 483.0	3.29	2743.98	2500.00	109.76
HFPO-DA_1	285.0 / 169.0	1.66	2253.45	2500.00	90.14
HFPO-DA_2	285.0 / 118.8	1.66	2031.08	2500.00	81.24
ADONA_1	377.0 / 251.0	1.94	2490.19	2500.00	99.61
ADONA_2	377.0 / 85.0	1.94	2401.77	2500.00	96.07
9Cl-PF3ONS_1	531.0 / 351.0	2.83	2569.44	2500.00	102.78
9Cl-PF3ONS_2	531.0 / 83.0	2.83	2207.58	2500.00	88.30
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	2609.11	2500.00	104.36
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	2326.69	2500.00	93.07

Sample Name	LE54 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/13/2020 12:14:28 AM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.32	1013.49	1000.00	101.35
PFBS_2	298.9 / 99.0	1.32	1021.64	1000.00	102.16
PFHxA_1	313.0 / 269.0	1.56	1036.41	1010.00	102.61
PFHxA_2	313.0 / 119.0	1.56	975.13	1010.00	96.55
PFHpA_1	363.0 / 319.0	1.89	1003.85	1000.00	100.39
PFHpA_2	363.0 / 169.0	1.89	844.46	1000.00	84.45
PFHxS_1	399.0 / 80.0	1.90	914.50	1010.00	90.54
PFHxS_2	399.0 / 99.0	1.90	935.63	1010.00	92.64
PFOA_1	413.0 / 369.0	2.25	997.00	1000.00	99.70
PFOA_2	413.0 / 169.0	2.24	963.79	1000.00	96.38
PFNA_1	463.0 / 419.0	2.61	1025.82	1000.00	102.58
PFNA_2	463.0 / 219.0	2.61	1004.48	1000.00	100.45
PFOS_1	499.0 / 80.0	2.60	951.20	1010.00	94.18
PFOS_2	499.0 / 99.0	2.60	1006.40	1010.00	99.64
PFDA_1	513.0 / 469.0	2.96	1047.26	1000.00	104.73
PFDA_2	513.0 / 219.0	2.96	1013.91	1000.00	101.39
PFUnA_1	563.0 / 519.0	3.27	1012.21	1000.00	101.22
PFUnA_2	563.0 / 269.0	3.27	971.81	1000.00	97.18
PFDoA_1	613.0 / 569.0	3.56	1004.12	1000.00	100.41
PFDoA_2	613.0 / 319.0	3.56	973.00	1000.00	97.30
PFTTrDA_1	663.0 / 619.0	3.82	992.52	1000.00	99.25
PFTTrDA_2	663.0 / 169.0	3.82	971.81	1000.00	97.18
PFTeDA_1	713.0 / 669.0	4.05	999.63	1000.00	99.96
PFTeDA_2	713.0 / 169.0	4.05	925.46	1000.00	92.55
NMeFOSAA_1	570.0 / 419.0	3.10	936.98	1000.00	93.70
NMeFOSAA_2	570.0 / 512.0	3.10	950.22	1000.00	95.02
NEtFOSAA_1	584.0 / 419.0	3.26	1088.55	1000.00	108.85
NEtFOSAA_2	584.0 / 483.0	3.27	1110.03	1000.00	111.00
HFPO-DA_1	285.0 / 169.0	1.65	1008.29	1000.00	100.83
HFPO-DA_2	285.0 / 118.8	1.65	941.92	1000.00	94.19
ADONA_1	377.0 / 251.0	1.92	909.56	1000.00	90.96
ADONA_2	377.0 / 85.0	1.92	890.97	1000.00	89.10
9Cl-PF3ONS_1	531.0 / 351.0	2.81	984.43	1000.00	98.44
9Cl-PF3ONS_2	531.0 / 83.0	2.81	1007.31	1000.00	100.73
11Cl-pf3OUdS_1	631.0 / 451.0	3.42	989.65	1000.00	98.96
11Cl-pf3OUdS_2	631.0 / 83.0	3.43	1233.43	1000.00	123.34

Sample Name	LE59 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:26:38 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.59	1162.61	1250.00	93.01
d3-MeFOSAA	573.0 / 419.0	3.12	1316.94	1250.00	105.36
d5-EtFOSAA	589.0 / 419.0	3.28	1329.12	1250.00	106.33
13C5-PFHxA	318.0 / 273.0	1.55	1269.21	1250.00	101.54
13C4-PFHpA	367.0 / 322.0	1.88	1372.10	1250.00	109.77
13C8-PFOA	421.0 / 376.0	2.24	1286.86	1222.50	105.26
13C9-PFNA	472.0 / 427.0	2.61	1332.98	1250.00	106.64
13C6-PFDA	519.0 / 474.0	2.97	1165.13	1250.00	93.21
13C7-PFUnA	570.0 / 525.0	3.30	1232.29	1250.00	98.58
13C2-PFTeDA	715.0 / 670.0	4.08	1215.57	1250.00	97.25
13C3-PFBS	302.0 / 99.0	1.31	1163.93	1162.50	100.12
13C3-PFHxS	402.0 / 99.0	1.89	1245.62	1182.50	105.34
13C8-PFOS	507.0 / 99.0	2.61	1238.38	1195.00	103.63
13C3-HFPO-DA	287.0 / 169.0	1.65	1225.89	1250.00	98.07

Sample Name	LE55 CCV	Injection Vial	19
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:11:33 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.59	1218.98	1250.00	97.52
d3-MeFOSAA	573.0 / 419.0	3.12	1302.65	1250.00	104.21
d5-EtFOSAA	589.0 / 419.0	3.29	1306.65	1250.00	104.53
13C5-PFHxA	318.0 / 273.0	1.56	1276.94	1250.00	102.16
13C4-PFHpA	367.0 / 322.0	1.89	1319.90	1250.00	105.59
13C8-PFOA	421.0 / 376.0	2.25	1302.47	1222.50	106.54
13C9-PFNA	472.0 / 427.0	2.62	1226.06	1250.00	98.08
13C6-PFDA	519.0 / 474.0	2.98	1141.31	1250.00	91.30
13C7-PFUnA	570.0 / 525.0	3.30	1238.08	1250.00	99.05
13C2-PFTeDA	715.0 / 670.0	4.07	1194.09	1250.00	95.53
13C3-PFBS	302.0 / 99.0	1.32	1159.85	1162.50	99.77
13C3-PFHxS	402.0 / 99.0	1.90	1284.10	1182.50	108.59
13C8-PFOS	507.0 / 99.0	2.62	1255.11	1195.00	105.03
13C3-HFPO-DA	287.0 / 169.0	1.66	1309.55	1250.00	104.76

Sample Name	LE54 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/13/2020 12:14:28 AM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	3.56	1290.01	1250.00	103.20
d3-MeFOSAA	573.0 / 419.0	3.10	1242.56	1250.00	99.40
d5-EtFOSAA	589.0 / 419.0	3.26	1235.09	1250.00	98.81
13C5-PFHxA	318.0 / 273.0	1.56	1255.32	1250.00	100.43
13C4-PFHpA	367.0 / 322.0	1.88	1308.75	1250.00	104.70
13C8-PFOA	421.0 / 376.0	2.24	1226.82	1222.50	100.35
13C9-PFNA	472.0 / 427.0	2.60	1223.61	1250.00	97.89
13C6-PFDA	519.0 / 474.0	2.95	1256.80	1250.00	100.54
13C7-PFUnA	570.0 / 525.0	3.27	1383.58	1250.00	110.69
13C2-PFTeDA	715.0 / 670.0	4.05	1314.95	1250.00	105.20
13C3-PFBS	302.0 / 99.0	1.31	1095.17	1162.50	94.21
13C3-PFHxS	402.0 / 99.0	1.89	1231.80	1182.50	104.17
13C8-PFOS	507.0 / 99.0	2.60	1143.63	1195.00	95.70
13C3-HFPO-DA	287.0 / 169.0	1.65	1122.88	1250.00	89.83



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	11/10/2020 9:20:54 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	1645255.06	2801.98	10090.1	False	13C3-PFBS	280433.15	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	540556.32	2720.80	4323.0	False	13C3-PFBS	280433.15	1162.50	PFBS	0.329	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	2849628.65	2599.64	1992.3	False	13C5-PFHxA	1121933.16	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	175255.83	2573.47	1599.1	False	13C5-PFHxA	1121933.16	1250.00	PFHxA	0.062	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	2315436.20	2694.90	1482.1	False	13C4-PFHpA	1176248.92	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	65906.90	2516.20	956.7	False	13C4-PFHpA	1176248.92	1250.00	PFHpA	0.028	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	1767630.51	3005.14	2099.7	False	13C3-PFHxS	219535.39	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	609745.66	2851.21	2294.9	False	13C3-PFHxS	219535.39	1182.50	PFHxS	0.345	0.359	✓
PFOA_1	413.0 / 369.0	2.27	2845565.68	2518.49	997.9	False	13C8-PFOA	1552002.58	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	264277.53	2462.24	1192.4	False	13C8-PFOA	1552002.58	1222.50	PFOA	0.093	0.093	✓
PFNA_1	463.0 / 419.0	2.65	2396020.15	2666.14	1004.2	False	13C9-PFNA	1309359.85	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	835706.89	2723.99	3159.1	False	13C9-PFNA	1309359.85	1250.00	PFNA	0.349	0.338	✓
PFOS_1	499.0 / 80.0	2.64	1647758.23	2340.42	1011.3	False	13C8-PFOS	220932.19	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	342122.71	2473.00	1292.7	False	13C8-PFOS	220932.19	1195.00	PFOS	0.208	0.203	✓
PFDA_1	513.0 / 469.0	3.00	2524191.10	2560.55	1075.5	False	13C6-PFDA	1265852.77	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	136658.90	2289.29	1447.6	False	13C6-PFDA	1265852.77	1250.00	PFDA	0.054	0.059	✓
PFUnA_1	563.0 / 519.0	3.32	2532193.55	2624.43	1567.3	False	13C7-PFUnA	1087680.05	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	158694.76	2505.04	2024.0	False	13C7-PFUnA	1087680.05	1250.00	PFUnA	0.063	0.061	✓
PFDoA_1	613.0 / 569.0	3.61	2850624.57	2900.95	1801.5	False	13C2-PFDoA	1292334.22	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.61	324582.29	2741.24	2043.7	False	13C2-PFDoA	1292334.22	1250.00	PFDoA	0.114	0.117	✓
PFTeDA_1	663.0 / 619.0	3.87	2383471.29	2922.56	2526.9	False	13C2-PFTeDA	1182191.86	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.87	171652.99	2852.82	2143.6	False	13C2-PFTeDA	1182191.86	1250.00	PFTeDA	0.072	0.070	✓
PFTeDA_1	713.0 / 669.0	4.11	2677363.10	2755.20	3305.1	False	13C2-PFTeDA	1182191.86	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.11	146795.41	2634.64	2812.0	False	13C2-PFTeDA	1182191.86	1250.00	PFTeDA	0.055	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	276880.93	2454.13	3391.3	False	d3-MeFOSAA	174813.69	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.14	321046.23	2800.32	4037597.0	False	d3-MeFOSAA	174813.69	1250.00	NMeFOSAA	1.160	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.31	315409.88	2241.99	2499.0	False	d5-EtFOSAA	171226.59	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.31	15762.64	1996.69	96969.3	False	d5-EtFOSAA	171226.59	1250.00	NEtFOSAA	0.050	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	2528411.97	2908.46	4960.6	False	13C3-HFPO-DA	465712.82	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	48970.72	2579.87	128194.4	False	13C3-HFPO-DA	465712.82	1250.00	HFPO-DA	0.019	0.023	✓
ADONA_1	377.0 / 251.0	1.94	5681605.48	2760.34	9657.8	False	13C3-PFHxS	219535.39	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	88003.21	2752.69	20811.2	False	13C3-PFHxS	219535.39	1182.50	ADONA	0.015	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	3121557.76	2630.91	2850.0	False	13C2-PFDoA	1292334.22	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	29740.46	2444.31	759.8	False	13C2-PFDoA	1292334.22	1250.00	9CI-PF3ONS	0.010	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.48	2171997.22	2613.47	2329.4	False	13C2-PFDoA	1292334.22	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	11053.58	2594.74	890.8	False	13C2-PFDoA	1292334.22	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 10:44:35 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	697448.54	1172.25	9495.8	False	13C3-PFBS	268226.63	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	223746.09	1120.86	3428.1	False	13C3-PFBS	268226.63	1162.50	PFBS	0.321	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	1307367.52	987.17	1132.3	False	13C5-PFHxA	1297849.35	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	75866.52	921.43	1432.5	False	13C5-PFHxA	1297849.35	1250.00	PFHxA	0.058	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	953008.62	962.47	877.4	False	13C4-PFHpA	1304341.41	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	28623.98	951.05	8857.8	False	13C4-PFHpA	1304341.41	1250.00	PFHpA	0.030	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	666164.83	1009.29	1172.6	False	13C3-PFHxS	231140.81	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	225028.67	942.36	1872.7	False	13C3-PFHxS	231140.81	1182.50	PFHxS	0.338	0.359	✓
PFOA_1	413.0 / 369.0	2.27	1166825.43	1003.02	646.3	False	13C8-PFOA	1539646.65	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	103722.34	951.34	879.0	False	13C8-PFOA	1539646.65	1222.50	PFOA	0.089	0.093	✓
PFNA_1	463.0 / 419.0	2.65	1051640.33	972.45	636.4	False	13C9-PFNA	1504877.16	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	339048.11	921.65	2999.6	False	13C9-PFNA	1504877.16	1250.00	PFNA	0.322	0.338	✓
PFOS_1	499.0 / 80.0	2.64	671907.71	934.94	675.9	False	13C8-PFOS	222887.45	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	146863.99	1017.74	5430.7	False	13C8-PFOS	222887.45	1195.00	PFOS	0.219	0.203	✓
PFDA_1	513.0 / 469.0	3.00	1043133.62	929.31	613.6	False	13C6-PFDA	1405755.15	1250.00	PFDA			
PFDA_2	513.0 / 219.0	3.00	60608.11	918.15	15996.8	False	13C6-PFDA	1405755.15	1250.00	PFDA	0.058	0.059	✓
PFOA_1	563.0 / 519.0	3.32	1095345.44	1043.24	833.0	False	13C7-PFOA	1141170.36	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.32	72183.35	1104.51	2162.4	False	13C7-PFOA	1141170.36	1250.00	PFOA	0.066	0.061	✓
PFDoA_1	613.0 / 569.0	3.61	1163620.68	1002.51	1067.8	False	13C2-PFDoA	1469163.67	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.61	129307.49	943.94	2108.3	False	13C2-PFDoA	1469163.67	1250.00	PFDoA	0.111	0.117	✓
PFTeDA_1	663.0 / 619.0	3.86	977581.43	1004.14	1590.2	False	13C2-PFTeDA	1314307.44	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.86	65128.16	944.41	1475.0	False	13C2-PFTeDA	1314307.44	1250.00	PFTeDA	0.067	0.070	✓
PFTeDA_1	713.0 / 669.0	4.09	1092923.63	966.51	3048.0	False	13C2-PFTeDA	1314307.44	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.09	57858.16	918.00	2288.6	False	13C2-PFTeDA	1314307.44	1250.00	PFTeDA	0.053	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	112293.48	879.63	40423.4	False	d3-MeFOSAA	203576.11	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.14	125363.80	920.08	39053.7	False	d3-MeFOSAA	203576.11	1250.00	NMeFOSAA	1.116	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.31	136822.29	816.70	54787.6	False	d5-EtFOSAA	203244.66	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.31	8110.14	876.06	349.2	False	d5-EtFOSAA	203244.66	1250.00	NEtFOSAA	0.059	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.67	966121.48	1107.12	3098.3	False	13C3-HFPO-DA	447585.47	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	22547.76	1172.98	3446899.2	False	13C3-HFPO-DA	447585.47	1250.00	HFPO-DA	0.023	0.023	✓
ADONA_1	377.0 / 251.0	1.94	2324992.65	1010.81	6148.1	False	13C3-PFHxS	231140.81	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	39431.49	1118.40	10566252.8	False	13C3-PFHxS	231140.81	1182.50	ADONA	0.017	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.85	1243591.02	935.28	1612.4	False	13C2-PFDoA	1469163.67	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	16630.47	1209.04	1446.2	False	13C2-PFDoA	1469163.67	1250.00	9CI-PF3ONS	0.013	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	864098.52	909.64	1760.2	False	13C2-PFDoA	1469163.67	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.48	3874.38	840.94	839.9	False	13C2-PFDoA	1469163.67	1250.00	11Cl-PF3OUdS	0.004	0.005	✓



Sample Name	LE77 CCV	Injection Vial	27
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:29:16 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	1766126.27	2755.16	14831.6	False	13C3-PFBS	305929.36	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	597241.74	2756.86	6140.9	False	13C3-PFBS	305929.36	1162.50	PFBS	0.338	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	3112267.87	2489.90	1502.6	False	13C5-PFHxA	1277810.91	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	185332.13	2384.69	1933.7	False	13C5-PFHxA	1277810.91	1250.00	PFHxA	0.060	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	2472831.55	2676.80	1091.4	False	13C4-PFHpA	1264513.49	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	79917.47	2845.37	3791.2	False	13C4-PFHpA	1264513.49	1250.00	PFHpA	0.032	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	1701458.39	2527.90	1757.2	False	13C3-PFHxS	249643.75	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	622695.35	2551.64	2658.7	False	13C3-PFHxS	249643.75	1182.50	PFHxS	0.366	0.359	✓
PFOA_1	413.0 / 369.0	2.26	2961776.90	2391.04	1151.0	False	13C8-PFOA	1699223.93	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	287907.30	2449.81	1185.9	False	13C8-PFOA	1699223.93	1222.50	PFOA	0.097	0.093	✓
PFNA_1	463.0 / 419.0	2.63	2757986.50	2755.41	905.2	False	13C9-PFNA	1459610.64	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	960511.36	2810.42	3595.8	False	13C9-PFNA	1459610.64	1250.00	PFNA	0.348	0.338	✓
PFOS_1	499.0 / 80.0	2.63	1785472.04	2255.52	965.4	False	13C8-PFOS	248334.59	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	368269.08	2365.72	3409.8	False	13C8-PFOS	248334.59	1195.00	PFOS	0.206	0.203	✓
PFDA_1	513.0 / 469.0	2.99	2719204.60	2600.47	1371.1	False	13C6-PFDA	1343015.15	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	156692.11	2473.55	2745.6	False	13C6-PFDA	1343015.15	1250.00	PFDA	0.058	0.059	✓
PFOA_1	563.0 / 519.0	3.31	2793507.29	2639.34	1073.8	False	13C7-PFOA	1193313.66	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.31	182927.30	2630.29	1940.6	False	13C7-PFOA	1193313.66	1250.00	PFOA	0.065	0.061	✓
PFOA_3	613.0 / 569.0	3.60	3012733.45	2814.16	1601.8	False	13C2-PFOA	1407052.33	1250.00	PFOA			
PFOA_4	613.0 / 319.0	3.60	349856.22	2713.53	2502.6	False	13C2-PFOA	1407052.33	1250.00	PFOA	0.116	0.117	✓
PFTeDA_1	663.0 / 619.0	3.86	2474099.40	2690.60	2381.0	False	13C2-PFTeDA	1328514.29	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.86	178661.32	2638.99	2784.0	False	13C2-PFTeDA	1328514.29	1250.00	PFTeDA	0.072	0.070	✓
PFTeDA_3	713.0 / 669.0	4.09	2884837.72	2638.80	4129.2	False	13C2-PFTeDA	1328514.29	1250.00	PFTeDA			
PFTeDA_4	713.0 / 169.0	4.09	157967.77	2521.84	3371.7	False	13C2-PFTeDA	1328514.29	1250.00	PFTeDA	0.055	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.13	293727.16	2123.00	9652.2	False	d3-MeFOSAA	214905.49	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	319694.02	2262.91	1909.7	False	d3-MeFOSAA	214905.49	1250.00	NMeFOSAA	1.088	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.30	357325.93	2296.26	1987.4	False	d5-EtFOSAA	189405.75	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.30	197599.39	2260.25	126453.1	False	d5-EtFOSAA	189405.75	1250.00	NEtFOSAA	0.055	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	2517122.32	2983.94	5727.5	False	13C3-HFPO-DA	452417.87	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	54083.95	2953.00	59126.7	False	13C3-HFPO-DA	452417.87	1250.00	HFPO-DA	0.021	0.023	✓
ADONA_1	377.0 / 251.0	1.93	6142178.98	2619.20	16541.5	False	13C3-PFHxS	249643.75	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.93	96397.75	2648.21	7641843.2	False	13C3-PFHxS	249643.75	1182.50	ADONA	0.016	0.015	✓
9Cl-PF3ONS_1	531.0 / 351.0	2.84	3078677.85	2385.14	2017.8	False	13C2-PFDOA	1407052.33	1250.00	9Cl-PF3ONS			
9Cl-PF3ONS_2	531.0 / 83.0	2.83	33449.86	2524.60	604.9	False	13C2-PFDOA	1407052.33	1250.00	9Cl-PF3ONS	0.011	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	2292359.22	2533.18	2487.6	False	13C2-PFDOA	1407052.33	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	13282.69	2857.66	1594.2	False	13C2-PFDOA	1407052.33	1250.00	11Cl-PF3OUdS	0.006	0.005	✓

Sample Name	LE76 CCV	Injection Vial	38
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:24:22 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	649296.36	1067.38	8436.1	False	13C3-PFBS	271669.00	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	209023.62	1026.10	2116.3	False	13C3-PFBS	271669.00	1162.50	PFBS	0.322	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	1228852.51	983.86	1205.5	False	13C5-PFHxA	1223724.58	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	70627.42	908.92	1151.5	False	13C5-PFHxA	1223724.58	1250.00	PFHxA	0.057	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	958869.84	976.88	809.9	False	13C4-PFHpA	1294127.03	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	29941.00	1005.74	544.9	False	13C4-PFHpA	1294127.03	1250.00	PFHpA	0.031	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	636160.39	941.46	1320.4	False	13C3-PFHxS	235059.30	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	242047.35	1001.80	1358.4	False	13C3-PFHxS	235059.30	1182.50	PFHxS	0.380	0.359	✓
PFOA_1	413.0 / 369.0	2.27	1074795.70	981.17	546.4	False	13C8-PFOA	1447842.15	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	110080.67	1078.53	717.4	False	13C8-PFOA	1447842.15	1222.50	PFOA	0.102	0.093	✓
PFNA_1	463.0 / 419.0	2.64	1015731.26	1075.82	602.0	False	13C9-PFNA	1322818.78	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	331643.17	1032.55	1678.4	False	13C9-PFNA	1322818.78	1250.00	PFNA	0.327	0.338	✓
PFOS_1	499.0 / 80.0	2.63	670460.60	967.61	546.8	False	13C8-PFOS	215039.56	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	132642.44	948.90	826.1	False	13C8-PFOS	215039.56	1195.00	PFOS	0.198	0.203	✓
PFDA_1	513.0 / 469.0	2.99	1022299.78	985.01	652.2	False	13C6-PFDA	1302635.38	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	64437.87	1052.49	37899.6	False	13C6-PFDA	1302635.38	1250.00	PFDA	0.063	0.059	✓
PFOA_1	563.0 / 519.0	3.31	1071311.24	941.58	741.6	False	13C7-PFOA	1228742.33	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.31	64571.13	923.13	1077.7	False	13C7-PFOA	1228742.33	1250.00	PFOA	0.060	0.061	✓
PFOA_1	613.0 / 569.0	3.60	1144851.82	1051.45	1070.0	False	13C2-PFOA	1381886.31	1250.00	PFOA			
PFOA_2	613.0 / 319.0	3.60	137677.83	1071.91	1790.8	False	13C2-PFOA	1381886.31	1250.00	PFOA	0.120	0.117	✓
PFTeDA_1	663.0 / 619.0	3.85	965706.43	1003.05	1972.0	False	13C2-PFTeDA	1299609.53	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.85	66731.54	980.21	1704.4	False	13C2-PFTeDA	1299609.53	1250.00	PFTeDA	0.069	0.070	✓
PFTeDA_1	713.0 / 669.0	4.09	1057592.57	944.32	2655.9	False	13C2-PFTeDA	1299609.53	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.09	57936.53	929.96	2157.2	False	13C2-PFTeDA	1299609.53	1250.00	PFTeDA	0.055	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	100973.55	813.50	794.9	False	d3-MeFOSAA	198671.56	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	123227.79	926.93	6135.3	False	d3-MeFOSAA	198671.56	1250.00	NMeFOSAA	1.220	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.30	140277.67	963.43	2373.9	False	d5-EtFOSAA	176778.65	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.30	8189.22	1014.03	1097.9	False	d5-EtFOSAA	176778.65	1250.00	NEtFOSAA	0.058	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	988784.90	1230.76	4156.9	False	13C3-HFPO-DA	414306.73	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	15941.70	870.09	13779.1	False	13C3-HFPO-DA	414306.73	1250.00	HFPO-DA	0.016	0.023	✓
ADONA_1	377.0 / 251.0	1.94	2207704.59	937.09	6036.1	False	13C3-PFHxS	235059.30	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	33879.14	930.57	449.1	False	13C3-PFHxS	235059.30	1182.50	ADONA	0.015	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.84	1192639.45	953.21	1418.2	False	13C2-PFDOA	1381886.31	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.85	10983.42	852.87	12537.8	False	13C2-PFDOA	1381886.31	1250.00	9CI-PF3ONS	0.009	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	872325.48	976.85	1643.1	False	13C2-PFDOA	1381886.31	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	3751.82	864.03	602.3	False	13C2-PFDOA	1381886.31	1250.00	11Cl-pf3OUdS	0.004	0.005	✓

Sample Name	LE77 CCV	Injection Vial	49
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:19:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	1616292.57	2573.90	11623.3	False	13C3-PFBS	298777.60	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	549477.25	2591.31	4615.4	False	13C3-PFBS	298777.60	1162.50	PFBS	0.340	0.333	✓
PFHxA_1	313.0 / 269.0	1.55	3040418.70	2484.23	1463.1	False	13C5-PFHxA	1251078.48	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.55	197004.21	2594.74	1650.5	False	13C5-PFHxA	1251078.48	1250.00	PFHxA	0.065	0.062	✓
PFHpA_1	363.0 / 319.0	1.87	2341236.41	2599.55	1075.3	False	13C4-PFHpA	1231993.48	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.87	73890.00	2697.32	1161.4	False	13C4-PFHpA	1231993.48	1250.00	PFHpA	0.032	0.030	✓
PFHxS_1	399.0 / 80.0	1.88	1609214.14	2596.72	1697.3	False	13C3-PFHxS	230091.01	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.88	579743.36	2578.40	1507.6	False	13C3-PFHxS	230091.01	1182.50	PFHxS	0.360	0.359	✓
PFOA_1	413.0 / 369.0	2.23	2757449.64	2310.44	862.2	False	13C8-PFOA	1635678.44	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.23	284944.30	2519.85	1458.9	False	13C8-PFOA	1635678.44	1222.50	PFOA	0.103	0.093	✓
PFNA_1	463.0 / 419.0	2.60	2434687.71	2804.92	882.9	False	13C9-PFNA	1266351.35	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.60	809369.02	2727.82	2082.2	False	13C9-PFNA	1266351.35	1250.00	PFNA	0.332	0.338	✓
PFOS_1	499.0 / 80.0	2.59	1618132.30	2666.22	660.8	False	13C8-PFOS	190631.65	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.59	346192.18	2910.56	1152.9	False	13C8-PFOS	190631.65	1195.00	PFOS	0.214	0.203	✓
PFDA_1	513.0 / 469.0	2.96	2397842.28	2473.97	866.6	False	13C6-PFDA	1243946.84	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.96	146084.46	2489.71	5821.9	False	13C6-PFDA	1243946.84	1250.00	PFDA	0.061	0.059	✓
PFUnA_1	563.0 / 519.0	3.28	2676019.07	2449.34	1336.1	False	13C7-PFUnA	1229472.46	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.28	170593.49	2383.90	1745.3	False	13C7-PFUnA	1229472.46	1250.00	PFUnA	0.064	0.061	✓
PFDoA_1	613.0 / 569.0	3.58	2904811.14	2740.41	1688.5	False	13C2-PFDoA	1392364.12	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.58	351297.41	2753.83	2449.4	False	13C2-PFDoA	1392364.12	1250.00	PFDoA	0.121	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.84	2349399.36	2649.06	2251.5	False	13C2-PFTTeDA	1280495.67	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.84	161035.43	2464.97	1901.9	False	13C2-PFTTeDA	1280495.67	1250.00	PFTTrDA	0.069	0.070	✓
PFTeDA_1	713.0 / 669.0	4.08	2664677.20	2525.84	3547.7	False	13C2-PFTeDA	1280495.67	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.08	150243.69	2488.14	3074.3	False	13C2-PFTeDA	1280495.67	1250.00	PFTeDA	0.056	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.11	288159.81	2217.07	653.6	False	d3-MeFOSAA	201729.62	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.10	320891.84	2421.71	1552.0	False	d3-MeFOSAA	201729.62	1250.00	NMeFOSAA	1.114	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.27	353110.05	2314.34	2997.5	False	d5-EtFOSAA	185711.54	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.27	21792.89	2540.12	2211.5	False	d5-EtFOSAA	185711.54	1250.00	NEtFOSAA	0.062	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.64	2583192.87	3244.36	8179.2	False	13C3-HFPO-DA	428633.81	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.64	52987.40	3058.92	681.9	False	13C3-HFPO-DA	428633.81	1250.00	HFPO-DA	0.021	0.023	✓
ADONA_1	377.0 / 251.0	1.90	5957373.93	2761.58	14358.6	False	13C3-PFHxS	230091.01	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.90	82556.94	2454.17	5879856.1	False	13C3-PFHxS	230091.01	1182.50	ADONA	0.014	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.80	3048200.07	2386.43	2180.9	False	13C2-PFDoA	1392364.12	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.80	32839.64	2504.80	3276.1	False	13C2-PFDoA	1392364.12	1250.00	9CI-PF3ONS	0.011	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.44	2219238.26	2478.08	2201.9	False	13C2-PFDoA	1392364.12	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.44	13774.65	2991.93	1305.3	False	13C2-PFDoA	1392364.12	1250.00	11Cl-PF3OUdS	0.006	0.005	✓



PFAS QC Sample Quant Report

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 Printed: 13/11/2020 3:49:42 PM

Sample Name	LE76 CCV	Injection Vial	1
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:22:20 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	633870.85	1110.32	8292.4	False	13C3-PFBS	255996.17	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	215057.61	1129.51	3510.8	False	13C3-PFBS	255996.17	1162.50	PFBS	0.339	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	1262352.20	953.68	1200.8	False	13C5-PFHxA	1294042.02	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	74433.09	905.62	1458.8	False	13C5-PFHxA	1294042.02	1250.00	PFHxA	0.059	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	955859.09	966.19	773.1	False	13C4-PFHpA	1303501.72	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	29942.01	998.13	791.5	False	13C4-PFHpA	1303501.72	1250.00	PFHpA	0.031	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	667636.29	976.08	1501.1	False	13C3-PFHxS	238777.21	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	234125.14	949.72	1461.3	False	13C3-PFHxS	238777.21	1182.50	PFHxS	0.351	0.359	✓
PFOA_1	413.0 / 369.0	2.26	1072851.43	864.90	565.0	False	13C8-PFOA	1625989.60	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	121471.94	1059.09	1527.5	False	13C8-PFOA	1625989.60	1222.50	PFOA	0.113	0.093	✓
PFNA_1	463.0 / 419.0	2.62	996251.45	951.40	611.4	False	13C9-PFNA	1454891.57	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	346910.75	979.02	1856.5	False	13C9-PFNA	1454891.57	1250.00	PFNA	0.348	0.338	✓
PFOS_1	499.0 / 80.0	2.61	674953.64	1005.70	509.2	False	13C8-PFOS	208428.11	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	138641.64	1027.99	729.7	False	13C8-PFOS	208428.11	1195.00	PFOS	0.205	0.203	✓
PFDA_1	513.0 / 469.0	2.95	1055355.32	959.24	627.7	False	13C6-PFDA	1379524.90	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.95	61383.23	947.37	268157.4	False	13C6-PFDA	1379524.90	1250.00	PFDA	0.058	0.059	✓
PFOA_1	563.0 / 519.0	3.26	1159238.91	988.25	757.1	False	13C7-PFOA	1270739.40	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.26	68689.34	948.62	1704.7	False	13C7-PFOA	1270739.40	1250.00	PFOA	0.059	0.061	✓
PFDoA_1	613.0 / 569.0	3.53	1206532.88	1016.62	1211.8	False	13C2-PFDoA	1503399.62	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.53	140214.11	1001.78	1848.2	False	13C2-PFDoA	1503399.62	1250.00	PFDoA	0.116	0.117	✓
PFTeDA_1	663.0 / 619.0	3.77	938645.02	957.65	1459.4	False	13C2-PFTeDA	1316542.62	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.77	67233.83	974.65	1233.0	False	13C2-PFTeDA	1316542.62	1250.00	PFTeDA	0.072	0.070	✓
PFTeDA_1	713.0 / 669.0	4.01	1088846.19	960.89	2338.5	False	13C2-PFTeDA	1316542.62	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.01	59652.38	945.59	1814.6	False	13C2-PFTeDA	1316542.62	1250.00	PFTeDA	0.055	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.09	118488.41	871.68	689.1	False	d3-MeFOSAA	216855.53	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.09	116716.30	800.57	346390.1	False	d3-MeFOSAA	216855.53	1250.00	NMeFOSAA	0.985	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.25	144047.06	944.95	12061.2	False	d5-EtFOSAA	185064.23	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.25	7378.63	875.35	6565.0	False	d5-EtFOSAA	185064.23	1250.00	NEtFOSAA	0.051	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	1009426.36	1188.88	3272.4	False	13C3-HFPO-DA	437094.28	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	23486.05	1258.58	793.2	False	13C3-HFPO-DA	437094.28	1250.00	HFPO-DA	0.023	0.023	✓
ADONA_1	377.0 / 251.0	1.94	2372111.84	997.05	5926.8	False	13C3-PFHxS	238777.21	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	36906.11	1004.61	603.4	False	13C3-PFHxS	238777.21	1182.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.81	1244202.21	914.89	1172.2	False	13C2-PFDoA	1503399.62	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.81	14234.32	1013.44	450.9	False	13C2-PFDoA	1503399.62	1250.00	9CI-PF3ONS	0.011	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.40	900876.19	926.90	1755.9	False	13C2-PFDoA	1503399.62	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.39	4392.14	925.23	1009.1	False	13C2-PFDoA	1503399.62	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

Sample Name	LE77 CCV	Injection Vial	9
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:46:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	1703076.69	2702.14	15438.1	False	13C3-PFBS	300540.44	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	555128.84	2603.04	4852.8	False	13C3-PFBS	300540.44	1162.50	PFBS	0.326	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	3146703.73	2496.82	1605.1	False	13C5-PFHxA	1288472.04	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	186448.70	2379.06	2143.2	False	13C5-PFHxA	1288472.04	1250.00	PFHxA	0.059	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	2309032.48	2475.19	1273.5	False	13C4-PFHpA	1274646.52	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	72431.95	2552.65	846.4	False	13C4-PFHpA	1274646.52	1250.00	PFHpA	0.031	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	1572064.99	2411.90	2109.1	False	13C3-PFHxS	241295.81	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	589885.14	2499.07	2615.2	False	13C3-PFHxS	241295.81	1182.50	PFHxS	0.375	0.359	✓
PFOA_1	413.0 / 369.0	2.27	2828917.75	2489.69	883.8	False	13C8-PFOA	1560317.84	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	296455.41	2751.69	1308.4	False	13C8-PFOA	1560317.84	1222.50	PFOA	0.105	0.093	✓
PFNA_1	463.0 / 419.0	2.63	2614831.42	2580.60	926.5	False	13C9-PFNA	1474976.92	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	950820.43	2751.83	2391.0	False	13C9-PFNA	1474976.92	1250.00	PFNA	0.364	0.338	✓
PFOS_1	499.0 / 80.0	2.63	1756015.09	2349.08	958.8	False	13C8-PFOS	234586.26	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	339318.03	2306.01	1564.8	False	13C8-PFOS	234586.26	1195.00	PFOS	0.193	0.203	✓
PFDA_1	513.0 / 469.0	2.99	2617737.10	2469.16	1003.9	False	13C6-PFDA	1360627.39	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	146938.91	2290.04	10480.7	False	13C6-PFDA	1360627.39	1250.00	PFDA	0.056	0.059	✓
PFUnA_1	563.0 / 519.0	3.30	2721170.26	2524.52	1289.7	False	13C7-PFUnA	1213935.48	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	172235.39	2436.91	1954.2	False	13C7-PFUnA	1213935.48	1250.00	PFUnA	0.063	0.061	✓
PFDoA_1	613.0 / 569.0	3.59	2925315.69	2682.86	1842.6	False	13C2-PFDoA	1431602.72	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	350604.85	2672.32	2752.9	False	13C2-PFDoA	1431602.72	1250.00	PFDoA	0.120	0.117	✓
PFTeDA_1	663.0 / 619.0	3.84	2541895.82	2765.64	2289.2	False	13C2-PFTeDA	1329390.51	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.84	177101.75	2613.81	2046.8	False	13C2-PFTeDA	1329390.51	1250.00	PFTeDA	0.070	0.070	✓
PFTeDA_1	713.0 / 669.0	4.07	2778960.95	2537.61	3745.9	False	13C2-PFTeDA	1329390.51	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.07	156375.68	2494.51	2932.8	False	13C2-PFTeDA	1329390.51	1250.00	PFTeDA	0.056	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.13	288842.74	2165.20	3997.7	False	d3-MeFOSAA	207139.00	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	324036.16	2381.11	9367.6	False	d3-MeFOSAA	207139.00	1250.00	NMeFOSAA	1.122	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.29	364479.28	2432.61	2329.8	False	d5-EtFOSAA	182386.68	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.29	22712.65	2694.44	86954.3	False	d5-EtFOSAA	182386.68	1250.00	NEtFOSAA	0.062	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	2557379.50	3201.67	4880.8	False	13C3-HFPO-DA	429749.50	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	53136.92	3059.62	6337073.5	False	13C3-HFPO-DA	429749.50	1250.00	HFPO-DA	0.021	0.023	✓
ADONA_1	377.0 / 251.0	1.94	6030130.71	2661.97	11088.7	False	13C3-PFHxS	241295.81	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	86860.96	2462.52	5041.3	False	13C3-PFHxS	241295.81	1182.50	ADONA	0.014	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	3258490.53	2480.33	1788.8	False	13C2-PFDoA	1431602.72	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	32276.77	2394.97	767.4	False	13C2-PFDoA	1431602.72	1250.00	9CI-PF3ONS	0.010	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	2395581.17	2602.05	2376.9	False	13C2-PFDoA	1431602.72	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	13173.32	2787.02	926.3	False	13C2-PFDoA	1431602.72	1250.00	11Cl-PF3OUdS	0.005	0.005	✓



Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:10:43 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	698654.65	1065.85	8447.1	False	13C3-PFBS	292695.07	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	205966.69	929.94	2617.8	False	13C3-PFBS	292695.07	1162.50	PFBS	0.295	0.333	✓
PFHxA_1	313.0 / 269.0	1.56	1286355.25	972.13	1123.6	False	13C5-PFHxA	1295365.10	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.56	80347.92	981.79	1358.6	False	13C5-PFHxA	1295365.10	1250.00	PFHxA	0.062	0.062	✓
PFHpA_1	363.0 / 319.0	1.88	1008548.87	1085.85	733.4	False	13C4-PFHpA	1231740.31	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.88	27578.22	971.46	572.0	False	13C4-PFHpA	1231740.31	1250.00	PFHpA	0.027	0.030	✓
PFHxS_1	399.0 / 80.0	1.88	642480.93	972.76	1172.8	False	13C3-PFHxS	230491.18	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.88	229589.03	966.20	914.7	False	13C3-PFHxS	230491.18	1182.50	PFHxS	0.357	0.359	✓
PFOA_1	413.0 / 369.0	2.23	1208834.61	958.24	610.8	False	13C8-PFOA	1664901.80	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.23	128263.26	1093.34	644.1	False	13C8-PFOA	1664901.80	1222.50	PFOA	0.106	0.093	✓
PFNA_1	463.0 / 419.0	2.59	1038065.25	1020.71	542.1	False	13C9-PFNA	1419966.75	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.59	344171.09	996.19	1753.9	False	13C9-PFNA	1419966.75	1250.00	PFNA	0.332	0.338	✓
PFOS_1	499.0 / 80.0	2.58	660923.93	960.34	560.0	False	13C8-PFOS	213555.13	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.58	129785.39	934.03	557.4	False	13C8-PFOS	213555.13	1195.00	PFOS	0.196	0.203	✓
PFDA_1	513.0 / 469.0	2.94	1011881.56	931.02	672.5	False	13C6-PFDA	1361227.75	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.94	59562.69	931.74	1162.5	False	13C6-PFDA	1361227.75	1250.00	PFDA	0.059	0.059	✓
PFUnA_1	563.0 / 519.0	3.26	1089450.08	956.74	876.5	False	13C7-PFUnA	1231025.99	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.26	65758.52	937.83	1400.6	False	13C7-PFUnA	1231025.99	1250.00	PFUnA	0.060	0.061	✓
PFDoA_1	613.0 / 569.0	3.56	1157855.47	957.71	1215.3	False	13C2-PFDoA	1526176.74	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.56	134696.57	946.62	1941.9	False	13C2-PFDoA	1526176.74	1250.00	PFDoA	0.116	0.117	✓
PFTeDA_1	663.0 / 619.0	3.82	961415.15	974.21	1937.4	False	13C2-PFTeDA	1328017.13	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.82	64580.97	925.98	1586.2	False	13C2-PFTeDA	1328017.13	1250.00	PFTeDA	0.067	0.070	✓
PFTeDA_1	713.0 / 669.0	4.06	1112040.52	973.77	3271.7	False	13C2-PFTeDA	1328017.13	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.06	62246.62	979.05	2167.6	False	13C2-PFTeDA	1328017.13	1250.00	PFTeDA	0.056	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.09	117334.20	929.75	7255.6	False	d3-MeFOSAA	200756.03	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.09	133080.06	992.61	6267.6	False	d3-MeFOSAA	200756.03	1250.00	NMeFOSAA	1.134	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.25	132647.37	863.37	2640.0	False	d5-EtFOSAA	186443.65	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.26	8052.77	946.71	60066.7	False	d5-EtFOSAA	186443.65	1250.00	NEtFOSAA	0.061	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.64	1014033.34	1154.91	3309.5	False	13C3-HFPO-DA	451334.80	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.64	23790.94	1232.56	73851.6	False	13C3-HFPO-DA	451334.80	1250.00	HFPO-DA	0.023	0.023	✓
ADONA_1	377.0 / 251.0	1.91	2337125.99	1019.76	7344.5	False	13C3-PFHxS	230491.18	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.91	38209.96	1084.20	5100210.4	False	13C3-PFHxS	230491.18	1182.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.79	1198801.21	869.39	1154.4	False	13C2-PFDoA	1526176.74	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.79	11253.60	792.19	860537.3	False	13C2-PFDoA	1526176.74	1250.00	9CI-PF3ONS	0.009	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.42	947903.02	961.01	1595.3	False	13C2-PFDoA	1526176.74	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.41	4266.07	887.82	472.8	False	13C2-PFDoA	1526176.74	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

Sample Name	LE77 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:34:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	1719761.66	2863.58	15560.1	False	13C3-PFBS	287090.58	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	558141.73	2745.02	4735.1	False	13C3-PFBS	287090.58	1162.50	PFBS	0.325	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	3137299.12	2341.07	1715.3	False	13C5-PFHxA	1367510.57	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	182518.83	2189.14	1690.2	False	13C5-PFHxA	1367510.57	1250.00	PFHxA	0.058	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	2443014.26	2573.91	1014.4	False	13C4-PFHpA	1298064.17	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	82079.35	2846.84	1571.5	False	13C4-PFHpA	1298064.17	1250.00	PFHpA	0.034	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	1622515.22	2365.52	1922.2	False	13C3-PFHxS	253718.02	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	597116.81	2402.57	2334.3	False	13C3-PFHxS	253718.02	1182.50	PFHxS	0.368	0.359	✓
PFOA_1	413.0 / 369.0	2.27	3105059.96	2747.95	1022.1	False	13C8-PFOA	1555377.14	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	320034.49	2983.11	985.1	False	13C8-PFOA	1555377.14	1222.50	PFOA	0.103	0.093	✓
PFNA_1	463.0 / 419.0	2.64	2711694.16	2705.20	868.4	False	13C9-PFNA	1461040.34	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	925326.71	2702.51	3616.4	False	13C9-PFNA	1461040.34	1250.00	PFNA	0.341	0.338	✓
PFOS_1	499.0 / 80.0	2.63	1761691.02	2637.84	896.3	False	13C8-PFOS	209761.62	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	347164.29	2647.22	1584.1	False	13C8-PFOS	209761.62	1195.00	PFOS	0.197	0.203	✓
PFDA_1	513.0 / 469.0	2.99	2610421.42	2519.44	1094.9	False	13C6-PFDA	1330143.57	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	146391.23	2333.67	1536.8	False	13C6-PFDA	1330143.57	1250.00	PFDA	0.056	0.059	✓
PFUnA_1	563.0 / 519.0	3.31	2847468.99	2479.97	1403.0	False	13C7-PFUnA	1292503.41	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	174614.26	2321.95	1469.1	False	13C7-PFUnA	1292503.41	1250.00	PFUnA	0.061	0.061	✓
PFDoA_1	613.0 / 569.0	3.59	3094648.19	2673.43	1633.6	False	13C2-PFDoA	1519693.05	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	354343.21	2543.03	2227.8	False	13C2-PFDoA	1519693.05	1250.00	PFDoA	0.115	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.84	2673036.11	2822.27	2633.4	False	13C2-PFTeDA	1371047.89	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.84	189244.96	2709.77	1970.7	False	13C2-PFTeDA	1371047.89	1250.00	PFTTrDA	0.071	0.070	✓
PFTeDA_1	713.0 / 669.0	4.07	2975816.31	2637.54	2935.5	False	13C2-PFTeDA	1371047.89	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.06	167365.81	2589.64	2666.8	False	13C2-PFTeDA	1371047.89	1250.00	PFTeDA	0.056	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.13	295143.96	2192.63	299058.6	False	d3-MeFOSAA	208963.36	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	310513.90	2260.40	3558.0	False	d3-MeFOSAA	208963.36	1250.00	NMeFOSAA	1.052	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.29	361661.07	2377.21	2140.1	False	d5-EtFOSAA	185186.62	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.30	21240.31	2483.15	682.8	False	d5-EtFOSAA	185186.62	1250.00	NEtFOSAA	0.059	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	2637031.68	3218.78	5083.8	False	13C3-HFPO-DA	440885.58	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	53876.78	3022.05	4336.2	False	13C3-HFPO-DA	440885.58	1250.00	HFPO-DA	0.020	0.023	✓
ADONA_1	377.0 / 251.0	1.94	5978532.06	2504.18	20511.9	False	13C3-PFHxS	253718.02	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	96695.02	2612.52	7814.9	False	13C3-PFHxS	253718.02	1182.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.84	2991226.43	2147.68	2134.4	False	13C2-PFDoA	1519693.05	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.84	32099.80	2244.61	1255.2	False	13C2-PFDoA	1519693.05	1250.00	9CI-PF3ONS	0.011	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	2454055.09	2510.79	2403.8	False	13C2-PFDoA	1519693.05	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	12286.80	2455.97	2194.5	False	13C2-PFDoA	1519693.05	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

Sample Name	LE76 CCV	Injection Vial	34
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 11:09:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	666276.88	1070.03	6450.2	False	13C3-PFBS	278156.32	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	214064.93	1026.36	3012.7	False	13C3-PFBS	278156.32	1162.50	PFBS	0.321	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	1275140.02	1017.81	1066.7	False	13C5-PFHxA	1230285.68	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	79793.13	1029.62	1045.7	False	13C5-PFHxA	1230285.68	1250.00	PFHxA	0.063	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	968447.39	970.07	820.0	False	13C4-PFHpA	1315693.04	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	33130.96	1099.65	726.4	False	13C4-PFHpA	1315693.04	1250.00	PFHpA	0.034	0.030	✓
PFHxS_1	399.0 / 80.0	1.90	601033.15	987.99	1200.0	False	13C3-PFHxS	212612.54	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	233179.92	1072.71	936.9	False	13C3-PFHxS	212612.54	1182.50	PFHxS	0.388	0.359	✓
PFOA_1	413.0 / 369.0	2.25	1104634.19	867.59	584.8	False	13C8-PFOA	1669323.16	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	114557.33	969.80	670.8	False	13C8-PFOA	1669323.16	1222.50	PFOA	0.104	0.093	✓
PFNA_1	463.0 / 419.0	2.62	1022537.35	978.42	611.0	False	13C9-PFNA	1454931.66	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.61	364516.64	1031.80	1077.8	False	13C9-PFNA	1454931.66	1250.00	PFNA	0.356	0.338	✓
PFOS_1	499.0 / 80.0	2.61	704894.52	1090.98	426.6	False	13C8-PFOS	200943.16	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	139569.78	1076.07	592.6	False	13C8-PFOS	200943.16	1195.00	PFOS	0.198	0.203	✓
PFDA_1	513.0 / 469.0	2.96	1060255.38	949.36	662.8	False	13C6-PFDA	1399795.29	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.96	69356.26	1054.19	8486.2	False	13C6-PFDA	1399795.29	1250.00	PFDA	0.065	0.059	✓
PFOA_1	563.0 / 519.0	3.28	1076179.21	991.75	695.8	False	13C7-PFOA	1175779.19	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.28	64676.81	964.77	4089.4	False	13C7-PFOA	1175779.19	1250.00	PFOA	0.060	0.061	✓
PFOA_3	613.0 / 569.0	3.56	1159840.01	1018.73	1112.5	False	13C2-PFOA	1442398.89	1250.00	PFOA			
PFOA_4	613.0 / 319.0	3.56	131876.50	981.56	2209.0	False	13C2-PFOA	1442398.89	1250.00	PFOA	0.114	0.117	✓
PFTeDA_1	663.0 / 619.0	3.81	945197.49	990.21	1596.7	False	13C2-PFTeDA	1286753.54	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.81	71085.49	1057.96	1329.4	False	13C2-PFTeDA	1286753.54	1250.00	PFTeDA	0.075	0.070	✓
PFTeDA_3	713.0 / 669.0	4.05	1052387.25	949.42	3127.4	False	13C2-PFTeDA	1286753.54	1250.00	PFTeDA			
PFTeDA_4	713.0 / 169.0	4.05	64031.14	1040.94	2372.6	False	13C2-PFTeDA	1286753.54	1250.00	PFTeDA	0.061	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.10	115755.52	921.30	866.1	False	d3-MeFOSAA	199950.50	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.10	123803.33	925.26	2017.8	False	d3-MeFOSAA	199950.50	1250.00	NMeFOSAA	1.070	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.26	136152.41	973.21	7764.6	False	d5-EtFOSAA	169862.75	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.26	7121.44	919.49	34288.6	False	d5-EtFOSAA	169862.75	1250.00	NEtFOSAA	0.052	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	1037906.14	1257.41	3785.2	False	13C3-HFPO-DA	426124.35	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	25730.11	1428.42	882.0	False	13C3-HFPO-DA	426124.35	1250.00	HFPO-DA	0.025	0.023	✓
ADONA_1	377.0 / 251.0	1.93	2384010.64	1138.43	8753.6	False	13C3-PFHxS	212612.54	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.92	37840.34	1170.80	5934.2	False	13C3-PFHxS	212612.54	1182.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.81	1194504.44	915.48	1240.9	False	13C2-PFDoA	1442398.89	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.81	16076.45	1190.66	360.4	False	13C2-PFDoA	1442398.89	1250.00	9CI-PF3ONS	0.013	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.43	911052.48	977.42	2162.3	False	13C2-PFDoA	1442398.89	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.43	4426.86	969.00	182.1	False	13C2-PFDoA	1442398.89	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

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	11/10/2020 9:20:54 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1292334.22	1205.45	4870.1	False	13C2-PFDA	1081806.51	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	174967.44	1191.69	1410.6	False	13C4-PFOS	200709.84	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	172326.58	1346.74	1206.0	False	13C4-PFOS	200709.84	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1121933.16	1116.80	14755.3	False	13C2-PFOA	903127.60	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1176248.92	1133.93	20394215.4	False	13C2-PFOA	903127.60	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1552002.58	1191.08	1055842.1	False	13C2-PFOA	903127.60	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1309359.85	1110.21	32237.7	False	13C2-PFOA	903127.60	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1265852.77	1311.34	4332.9	False	13C2-PFDA	1081806.51	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1087680.05	1277.63	5571.4	False	13C2-PFDA	1081806.51	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.10	1182191.86	1220.04	4571.1	False	13C2-PFDA	1081806.51	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	280433.15	1216.04	6524.4	False	13C4-PFOS	200709.84	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	219535.39	1166.44	4948.8	False	13C4-PFOS	200709.84	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	220932.19	1290.34	1545.8	False	13C4-PFOS	200709.84	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	465712.82	1088.58	17586.2	False	13C2-PFOA	903127.60	1250.00		N/A	N/A	✓

Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 10:44:35 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1469163.67	1277.66	4727.9	False	13C2-PFDA	1160327.97	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	203779.02	1323.91	1089.7	False	13C4-PFOS	210414.10	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	203230.56	1515.01	1251.5	False	13C4-PFOS	210414.10	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1297849.35	1260.62	5753.7	False	13C2-PFOA	925549.46	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1304341.41	1226.95	17888.0	False	13C2-PFOA	925549.46	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1539646.65	1152.98	1529789.3	False	13C2-PFOA	925549.46	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1504877.16	1245.08	4631.1	False	13C2-PFOA	925549.46	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1405755.15	1357.72	8155.3	False	13C2-PFDA	1160327.97	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1141170.36	1249.75	3410.4	False	13C2-PFDA	1160327.97	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1314307.44	1264.60	4191.9	False	13C2-PFDA	1160327.97	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	268226.63	1109.47	21840.8	False	13C4-PFOS	210414.10	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	231140.81	1171.47	3357.2	False	13C4-PFOS	210414.10	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	222887.45	1241.73	1503.5	False	13C4-PFOS	210414.10	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	447585.47	1020.86	3191.9	False	13C2-PFOA	925549.46	1250.00		N/A	N/A	✓

Sample Name	LE77 CCV	Injection Vial	27
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:29:16 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1407052.33	1118.01	5589.9	False	13C2-PFDA	1269955.41	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	214373.71	1396.92	1322.6	False	13C4-PFOS	209785.44	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	189218.11	1414.77	919.2	False	13C4-PFOS	209785.44	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1277810.91	1275.01	2665227.3	False	13C2-PFOA	900968.14	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1264513.49	1221.94	25235.4	False	13C2-PFOA	900968.14	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1699223.93	1307.19	1643.3	False	13C2-PFOA	900968.14	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1459610.64	1240.58	8612.8	False	13C2-PFOA	900968.14	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1343015.15	1185.15	17187.4	False	13C2-PFDA	1269955.41	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1193313.66	1194.04	5156.7	False	13C2-PFDA	1269955.41	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1328514.29	1167.92	4783.5	False	13C2-PFDA	1269955.41	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	305929.36	1269.21	14743.4	False	13C4-PFOS	209785.44	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	249643.75	1269.04	4332.2	False	13C4-PFOS	209785.44	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	248334.59	1387.64	1684.4	False	13C4-PFOS	209785.44	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	452417.87	1060.04	7286.8	False	13C2-PFOA	900968.14	1250.00		N/A	N/A	✓

Sample Name	LE76 CCV	Injection Vial	38
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:24:22 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1381886.31	1202.92	4519.6	False	13C2-PFDA	1159201.23	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	198709.83	1199.71	1426.9	False	13C4-PFOS	226420.79	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	176738.20	1224.37	1102.4	False	13C4-PFOS	226420.79	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1223724.58	1165.49	6997.1	False	13C2-PFOA	943918.76	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1294127.03	1193.65	33904.8	False	13C2-PFOA	943918.76	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1447842.15	1063.13	55187.9	False	13C2-PFOA	943918.76	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1322818.78	1073.16	5015.0	False	13C2-PFOA	943918.76	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1302635.38	1259.35	6767.3	False	13C2-PFDA	1159201.23	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1228742.33	1346.96	4522.4	False	13C2-PFDA	1159201.23	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1299609.53	1251.67	3953.8	False	13C2-PFDA	1159201.23	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	271669.00	1044.27	19268.7	False	13C4-PFOS	226420.79	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	235059.30	1107.11	10682.4	False	13C4-PFOS	226420.79	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	215039.56	1113.31	1338.9	False	13C4-PFOS	226420.79	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	414306.73	926.57	4609.1	False	13C2-PFOA	943918.76	1250.00		N/A	N/A	✓

Sample Name	LE77 CCV	Injection Vial	49
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:19:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1392364.12	1277.95	4167.5	False	13C2-PFDA	1099419.76	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.10	199779.91	1377.09	1033.0	False	13C4-PFOS	198319.02	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	185784.79	1469.42	1175.4	False	13C4-PFOS	198319.02	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.54	1251078.48	1215.77	12399.8	False	13C2-PFOA	925108.20	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.86	1231993.48	1159.45	10982.5	False	13C2-PFOA	925108.20	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.22	1635678.44	1225.48	20553.2	False	13C2-PFOA	925108.20	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.59	1266351.35	1048.23	4138.2	False	13C2-PFOA	925108.20	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.95	1243946.84	1268.00	2921.3	False	13C2-PFDA	1099419.76	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	1229472.46	1421.05	3852.7	False	13C2-PFDA	1099419.76	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1280495.67	1300.32	3616.7	False	13C2-PFDA	1099419.76	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	298777.60	1311.21	12599.0	False	13C4-PFOS	198319.02	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.87	230091.01	1237.27	4706.9	False	13C4-PFOS	198319.02	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.59	190631.65	1126.80	997.5	False	13C4-PFOS	198319.02	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.63	428633.81	978.10	10396.5	False	13C2-PFOA	925108.20	1250.00		N/A	N/A	✓

Sample Name	LE76 CCV	Injection Vial	1
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:22:20 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	3.53	1503399.62	1308.16	4999.8	False	13C2-PFDA	1159680.28	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.09	214569.35	1358.77	1538.9	False	13C4-PFOS	215871.51	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.24	185234.19	1345.94	1027.2	False	13C4-PFOS	215871.51	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1294042.02	1260.05	6119.4	False	13C2-PFOA	923245.40	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1303501.72	1229.22	85721.0	False	13C2-PFOA	923245.40	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1625989.60	1220.67	37975.4	False	13C2-PFOA	923245.40	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1454891.57	1206.73	3475.3	False	13C2-PFOA	923245.40	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.95	1379524.90	1333.13	6276.5	False	13C2-PFDA	1159680.28	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.25	1270739.40	1392.42	6025.3	False	13C2-PFDA	1159680.28	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.01	1316542.62	1267.45	5254.1	False	13C2-PFDA	1159680.28	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	255996.17	1032.11	11691.4	False	13C4-PFOS	215871.51	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	238777.21	1179.58	2324.6	False	13C4-PFOS	215871.51	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.60	208428.11	1131.82	1160.9	False	13C4-PFOS	215871.51	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	437094.28	999.42	6301.7	False	13C2-PFOA	923245.40	1250.00		N/A	N/A	✓

Sample Name	LE77 CCV	Injection Vial	9
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:46:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1431602.72	1200.06	3767.4	False	13C2-PFDA	1203767.53	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	206278.75	1283.00	986.8	False	13C4-PFOS	219786.65	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	182290.04	1300.95	1041.6	False	13C4-PFOS	219786.65	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1288472.04	1228.17	5521.6	False	13C2-PFOA	943134.66	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1274646.52	1176.66	71244.5	False	13C2-PFOA	943134.66	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1560317.84	1146.67	21298.9	False	13C2-PFOA	943134.66	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1474976.92	1197.59	6376.1	False	13C2-PFOA	943134.66	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1360627.39	1266.71	4136.2	False	13C2-PFDA	1203767.53	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1213935.48	1281.46	3551.2	False	13C2-PFDA	1203767.53	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1329390.51	1232.95	4043.6	False	13C2-PFDA	1203767.53	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	300540.44	1190.12	22709.3	False	13C4-PFOS	219786.65	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	241295.81	1170.78	5669.1	False	13C4-PFOS	219786.65	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	234586.26	1251.17	1707.0	False	13C4-PFOS	219786.65	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	429749.50	961.91	5253.0	False	13C2-PFOA	943134.66	1250.00		N/A	N/A	✓

Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:10:43 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1526176.74	1270.30	4332.4	False	13C2-PFDA	1212340.22	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.08	198632.81	1315.23	1073.2	False	13C4-PFOS	206454.59	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.25	187007.45	1420.80	1151.4	False	13C4-PFOS	206454.59	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	1295365.10	1141.37	5825.2	False	13C2-PFOA	1020292.94	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.87	1231740.31	1051.07	5024.8	False	13C2-PFOA	1020292.94	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.22	1664901.80	1131.00	9054.1	False	13C2-PFOA	1020292.94	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.58	1419966.75	1065.74	6295.6	False	13C2-PFOA	1020292.94	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.93	1361227.75	1258.31	3572.2	False	13C2-PFDA	1212340.22	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.26	1231025.99	1290.32	3338.5	False	13C2-PFDA	1212340.22	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1328017.13	1222.97	4838.5	False	13C2-PFDA	1212340.22	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.30	292695.07	1233.90	40564.5	False	13C4-PFOS	206454.59	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.88	230491.18	1190.58	8187.7	False	13C4-PFOS	206454.59	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.58	213555.13	1212.55	1474.4	False	13C4-PFOS	206454.59	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.64	451334.80	933.82	4197.9	False	13C2-PFOA	1020292.94	1250.00		N/A	N/A	✓

Sample Name	LE77 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:34:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1519693.05	1345.83	3797.5	False	13C2-PFDA	1139432.48	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	208615.76	1271.08	1574.5	False	13C4-PFOS	224361.34	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	184533.38	1290.11	979.6	False	13C4-PFOS	224361.34	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1367510.57	1283.13	10949.6	False	13C2-PFOA	958116.70	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1298064.17	1179.54	7689.9	False	13C2-PFOA	958116.70	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1555377.14	1125.17	17886.9	False	13C2-PFOA	958116.70	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1461040.34	1167.73	4507.4	False	13C2-PFOA	958116.70	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1330143.57	1308.25	17629.0	False	13C2-PFDA	1139432.48	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1292503.41	1441.44	3498.0	False	13C2-PFDA	1139432.48	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1371047.89	1343.38	4300.4	False	13C2-PFDA	1139432.48	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	287090.58	1113.68	8366.1	False	13C4-PFOS	224361.34	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	253718.02	1205.96	9152.4	False	13C4-PFOS	224361.34	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	209761.62	1095.96	1760.4	False	13C4-PFOS	224361.34	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	440885.58	971.40	5420.2	False	13C2-PFOA	958116.70	1250.00		N/A	N/A	✓

Sample Name	LE76 CCV	Injection Vial	34
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 11:09:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1442398.89	1246.75	4324.0	False	13C2-PFDA	1167427.64	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.10	198168.05	1203.47	1150.7	False	13C4-PFOS	225098.07	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.26	169889.19	1183.84	930.2	False	13C4-PFOS	225098.07	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1230285.68	1091.97	7245.6	False	13C2-PFOA	1012872.67	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1315693.04	1130.93	88452.6	False	13C2-PFOA	1012872.67	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1669323.16	1142.31	7412.4	False	13C2-PFOA	1012872.67	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1454931.66	1099.98	4182.1	False	13C2-PFOA	1012872.67	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.95	1399795.29	1343.74	1249.7	False	13C2-PFDA	1167427.64	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.27	1175779.19	1279.82	4712.8	False	13C2-PFDA	1167427.64	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.04	1286753.54	1230.56	4086.0	False	13C2-PFDA	1167427.64	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	278156.32	1075.49	106638.4	False	13C4-PFOS	225098.07	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	212612.54	1007.27	78475.7	False	13C4-PFOS	225098.07	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.60	200943.16	1046.45	1293.4	False	13C4-PFOS	225098.07	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	426124.35	888.12	5578.5	False	13C2-PFOA	1012872.67	1250.00		N/A	N/A	✓

Sample Name	LE59 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:26:38 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	1657730.51	2547.61	14221.0	False	13C3-PFBS	279541.73	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	545898.26	2518.48	3768.8	False	13C3-PFBS	279541.73	1162.50	PFBS	0.329	0.323	✓
PFHxA_1	313.0 / 269.0	1.56	3019528.11	2526.37	1993.8	False	13C5-PFHxA	1268759.74	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.56	171145.71	2235.67	2667.2	False	13C5-PFHxA	1268759.74	1250.00	PFHxA	0.057	0.061	✓
PFHpA_1	363.0 / 319.0	1.89	2239200.70	2151.05	1430.2	False	13C4-PFHpA	1337854.93	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	72318.91	2159.47	2688.4	False	13C4-PFHpA	1337854.93	1250.00	PFHpA	0.032	0.031	✓
PFHxS_1	399.0 / 80.0	1.90	1721944.81	2535.80	2526.9	False	13C3-PFHxS	240718.14	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	626759.08	2525.84	2439.6	False	13C3-PFHxS	240718.14	1182.50	PFHxS	0.364	0.368	✓
PFOA_1	413.0 / 369.0	2.25	2854664.54	2430.69	921.6	False	13C8-PFOA	1608168.13	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	274200.09	2269.74	1278.4	False	13C8-PFOA	1608168.13	1222.50	PFOA	0.096	0.097	✓
PFNA_1	463.0 / 419.0	2.62	2595725.86	2315.65	850.7	False	13C9-PFNA	1559680.55	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	877442.45	2326.82	2770.5	False	13C9-PFNA	1559680.55	1250.00	PFNA	0.338	0.334	✓
PFOS_1	499.0 / 80.0	2.61	1674434.77	2273.17	1203.7	False	13C8-PFOS	223463.13	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	354238.72	2320.11	1800.9	False	13C8-PFOS	223463.13	1195.00	PFOS	0.212	0.207	✓
PFDA_1	513.0 / 469.0	2.98	2468930.17	2385.88	807.1	False	13C6-PFDA	1316054.53	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	150885.27	2448.42	13451.1	False	13C6-PFDA	1316054.53	1250.00	PFDA	0.061	0.058	✓
PFOA_1	563.0 / 519.0	3.30	2558269.82	2232.62	1259.1	False	13C7-PFOA	1241265.36	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.30	166911.90	2211.43	2662.0	False	13C7-PFOA	1241265.36	1250.00	PFOA	0.065	0.063	✓
PFOA_1	613.0 / 569.0	3.59	2896477.24	2515.91	1695.2	False	13C2-PFOA	1448222.58	1250.00	PFOA			
PFOA_2	613.0 / 319.0	3.59	344145.07	2369.60	2662.2	False	13C2-PFOA	1448222.58	1250.00	PFOA	0.119	0.120	✓
PFTeDA_1	663.0 / 619.0	3.85	2495752.51	2472.31	2185.5	False	13C2-PFTeDA	1321759.06	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.85	179717.27	2327.95	2739.7	False	13C2-PFTeDA	1321759.06	1250.00	PFTeDA	0.072	0.073	✓
PFTeDA_1	713.0 / 669.0	4.08	2692913.78	2427.82	2789.8	False	13C2-PFTeDA	1321759.06	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.08	150844.00	2349.24	2894.5	False	13C2-PFTeDA	1321759.06	1250.00	PFTeDA	0.056	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.12	288401.20	2457.20	700.4	False	d3-MeFOSAA	193340.19	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	295354.53	2311.07	7579.0	False	d3-MeFOSAA	193340.19	1250.00	NMeFOSAA	1.024	1.110	✓
NEiFOSAA_1	584.0 / 419.0	3.29	320429.93	2286.40	1841.4	False	d5-EiFOSAA	181733.19	1250.00	NEiFOSAA			
NEiFOSAA_2	584.0 / 483.0	3.29	18342.44	2177.57	731.2	False	d5-EiFOSAA	181733.19	1250.00	NEiFOSAA	0.057	0.061	✓
HFPO-DA_1	285.0 / 169.0	1.65	2768489.80	2390.40	4921.7	False	13C3-HFPO-DA	437403.22	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	62194.92	2251.07	793.7	False	13C3-HFPO-DA	437403.22	1250.00	HFPO-DA	0.022	0.023	✓
ADONA_1	377.0 / 251.0	1.92	6159430.99	2423.19	5960.3	False	13C3-PFHxS	240718.14	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.92	86804.06	2236.12	61534.5	False	13C3-PFHxS	240718.14	1182.50	ADONA	0.014	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	3177765.57	2525.50	2798.5	False	13C2-PFDoA	1448222.58	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	26529.10	1908.47	888.1	False	13C2-PFDoA	1448222.58	1250.00	9CI-PF3ONS	0.008	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	2365253.52	2437.40	2425.1	False	13C2-PFDoA	1448222.58	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	11297.15	2228.86	2082.2	False	13C2-PFDoA	1448222.58	1250.00	11Cl-pf3OUdS	0.005	0.005	✓

Sample Name	LE55 CCV	Injection Vial	19
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:11:33 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	1717301.34	2687.79	16478.1	False	13C3-PFBS	275122.06	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	572131.62	2686.36	5292.5	False	13C3-PFBS	275122.06	1162.50	PFBS	0.333	0.323	✓
PFHxA_1	313.0 / 269.0	1.57	3125267.54	2606.12	1485.6	False	13C5-PFHxA	1274727.39	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	190878.87	2487.13	1660.7	False	13C5-PFHxA	1274727.39	1250.00	PFHxA	0.061	0.061	✓
PFHpA_1	363.0 / 319.0	1.90	2508916.01	2521.65	1115.3	False	13C4-PFHpA	1285194.41	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	68692.83	2134.81	1105.2	False	13C4-PFHpA	1285194.41	1250.00	PFHpA	0.027	0.031	✓
PFHxS_1	399.0 / 80.0	1.91	1807870.33	2617.06	4064.8	False	13C3-PFHxS	245092.05	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	634210.97	2509.77	2435.9	False	13C3-PFHxS	245092.05	1182.50	PFHxS	0.351	0.368	✓
PFOA_1	413.0 / 369.0	2.26	3146926.21	2657.10	933.3	False	13C8-PFOA	1625437.77	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	292316.00	2393.17	1128.8	False	13C8-PFOA	1625437.77	1222.50	PFOA	0.093	0.097	✓
PFNA_1	463.0 / 419.0	2.63	2699684.82	2627.40	802.0	False	13C9-PFNA	1432600.94	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	962893.37	2785.83	2066.4	False	13C9-PFNA	1432600.94	1250.00	PFNA	0.357	0.334	✓
PFOS_1	499.0 / 80.0	2.63	1767264.00	2397.07	1615.4	False	13C8-PFOS	223686.68	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	364362.38	2384.11	12685.1	False	13C8-PFOS	223686.68	1195.00	PFOS	0.206	0.207	✓
PFDA_1	513.0 / 469.0	2.98	2788552.75	2820.37	1070.0	False	13C6-PFDA	1259794.53	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	159912.21	2709.77	27513.5	False	13C6-PFDA	1259794.53	1250.00	PFDA	0.057	0.058	✓
PFOA_1	563.0 / 519.0	3.30	3107332.92	2775.80	1333.0	False	13C7-PFOA	1218701.93	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.30	189744.88	2560.77	3432.7	False	13C7-PFOA	1218701.93	1250.00	PFOA	0.061	0.063	✓
PFOA_1	613.0 / 569.0	3.59	3184475.40	2706.71	1519.2	False	13C2-PFOA	1483879.95	1250.00	PFOA			
PFOA_2	613.0 / 319.0	3.59	358970.27	2412.83	2946.5	False	13C2-PFOA	1483879.95	1250.00	PFOA	0.113	0.120	✓
PFTeDA_1	663.0 / 619.0	3.85	2600332.88	2691.00	2459.8	False	13C2-PFTeDA	1268834.57	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.84	180550.09	2437.60	3257.5	False	13C2-PFTeDA	1268834.57	1250.00	PFTeDA	0.069	0.073	✓
PFTeDA_1	713.0 / 669.0	4.08	2766940.52	2603.85	3151.2	False	13C2-PFTeDA	1268834.57	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.08	156708.79	2544.44	2679.7	False	13C2-PFTeDA	1268834.57	1250.00	PFTeDA	0.057	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.13	267264.57	2331.97	543.5	False	d3-MeFOSAA	188907.97	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	286043.58	2290.64	3024.8	False	d3-MeFOSAA	188907.97	1250.00	NMeFOSAA	1.070	1.110	✓
NEiFOSAA_1	584.0 / 419.0	3.29	374773.33	2747.30	2637.5	False	d5-EiFOSAA	176877.08	1250.00	NEiFOSAA			
NEiFOSAA_2	584.0 / 483.0	3.29	22465.42	2743.98	12762.5	False	d5-EiFOSAA	176877.08	1250.00	NEiFOSAA	0.060	0.061	✓
HFPO-DA_1	285.0 / 169.0	1.66	2788904.48	2253.45	5979.0	False	13C3-HFPO-DA	466614.51	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	59964.48	2031.08	18804.7	False	13C3-HFPO-DA	466614.51	1250.00	HFPO-DA	0.022	0.023	✓
ADONA_1	377.0 / 251.0	1.94	6438525.14	2490.19	11444.1	False	13C3-PFHxS	245092.05	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	94975.02	2401.77	860.7	False	13C3-PFHxS	245092.05	1182.50	ADONA	0.015	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	3311861.40	2569.44	1676.0	False	13C2-PFDoA	1483879.95	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	31430.38	2207.58	4451.7	False	13C2-PFDoA	1483879.95	1250.00	9CI-PF3ONS	0.009	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	2592858.85	2609.11	2193.1	False	13C2-PFDoA	1483879.95	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.46	12088.36	2326.69	1429.3	False	13C2-PFDoA	1483879.95	1250.00	11Cl-pf3OUdS	0.005	0.005	✓

Sample Name	LE54 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/13/2020 12:14:28 AM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	717856.69	1013.49	12767.8	False	13C3-PFBS	285108.00	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	234626.91	1021.64	3246.6	False	13C3-PFBS	285108.00	1162.50	PFBS	0.327	0.323	✓
PFHxA_1	313.0 / 269.0	1.56	1379241.48	1036.41	1151.4	False	13C5-PFHxA	1328270.38	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.56	80303.52	975.13	1216.2	False	13C5-PFHxA	1328270.38	1250.00	PFHxA	0.058	0.061	✓
PFHpA_1	363.0 / 319.0	1.89	1096524.77	1003.85	762.4	False	13C4-PFHpA	1350739.23	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	29333.09	844.46	675.5	False	13C4-PFHpA	1350739.23	1250.00	PFHpA	0.027	0.031	✓
PFHxS_1	399.0 / 80.0	1.90	698018.90	914.50	1749.9	False	13C3-PFHxS	258030.58	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	261702.35	935.63	2550.1	False	13C3-PFHxS	258030.58	1182.50	PFHxS	0.375	0.368	✓
PFOA_1	413.0 / 369.0	2.25	1226734.88	997.00	645.9	False	13C8-PFOA	1622813.50	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.24	116439.18	963.79	678.4	False	13C8-PFOA	1622813.50	1222.50	PFOA	0.095	0.097	✓
PFNA_1	463.0 / 419.0	2.61	1141496.13	1025.82	546.1	False	13C9-PFNA	1515458.83	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.61	374288.10	1004.48	2123.2	False	13C9-PFNA	1515458.83	1250.00	PFNA	0.328	0.334	✓
PFOS_1	499.0 / 80.0	2.60	703510.41	951.20	767.4	False	13C8-PFOS	223689.31	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.60	154059.03	1006.40	3521.1	False	13C8-PFOS	223689.31	1195.00	PFOS	0.219	0.207	✓
PFDA_1	513.0 / 469.0	2.96	1086588.31	1047.26	553.9	False	13C6-PFDA	1299364.31	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.96	61353.28	1013.91	15678.9	False	13C6-PFDA	1299364.31	1250.00	PFDA	0.056	0.058	✓
PFOA_1	563.0 / 519.0	3.27	1228450.68	1012.21	952.6	False	13C7-PFOA	1275610.48	1250.00	PFOA			
PFOA_2	563.0 / 269.0	3.27	75454.63	971.81	30950.2	False	13C7-PFOA	1275610.48	1250.00	PFOA	0.061	0.063	✓
PFOA_1	613.0 / 569.0	3.56	1239916.35	1004.12	1008.7	False	13C2-PFOA	1470821.89	1250.00	PFOA			
PFOA_2	613.0 / 319.0	3.56	146100.40	973.00	2008.9	False	13C2-PFOA	1470821.89	1250.00	PFOA	0.118	0.120	✓
PFTeDA_1	663.0 / 619.0	3.82	1043751.98	992.52	1769.0	False	13C2-PFTeDA	1308712.76	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.82	75527.48	971.81	1886.7	False	13C2-PFTeDA	1308712.76	1250.00	PFTeDA	0.072	0.073	✓
PFTeDA_1	713.0 / 669.0	4.05	1144535.65	999.63	2339.3	False	13C2-PFTeDA	1308712.76	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.05	59792.32	925.46	2153.5	False	13C2-PFTeDA	1308712.76	1250.00	PFTeDA	0.052	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.10	111108.70	936.98	41526.2	False	d3-MeFOSAA	198770.30	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.10	125220.20	950.22	4565.6	False	d3-MeFOSAA	198770.30	1250.00	NMeFOSAA	1.127	1.110	✓
NEiFOSAA_1	584.0 / 419.0	3.26	153962.24	1088.55	6563.6	False	d5-EiFOSAA	180729.41	1250.00	NEiFOSAA			
NEiFOSAA_2	584.0 / 483.0	3.27	9483.38	1110.03	304.7	False	d5-EiFOSAA	180729.41	1250.00	NEiFOSAA	0.062	0.061	✓
HFPO-DA_1	285.0 / 169.0	1.65	1156354.03	1008.29	4618.9	False	13C3-HFPO-DA	424087.65	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	25380.98	941.92	2605.7	False	13C3-HFPO-DA	424087.65	1250.00	HFPO-DA	0.022	0.023	✓
ADONA_1	377.0 / 251.0	1.92	2625899.08	909.56	6929.8	False	13C3-PFHxS	258030.58	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.92	36677.49	890.97	82824.7	False	13C3-PFHxS	258030.58	1182.50	ADONA	0.014	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	2.81	1285924.19	984.43	1338.0	False	13C2-PFDoA	1470821.89	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.81	14256.90	1007.31	1140.0	False	13C2-PFDoA	1470821.89	1250.00	9CI-PF3ONS	0.011	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.42	986758.12	989.65	1622.0	False	13C2-PFDoA	1470821.89	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.43	6299.13	1233.43	602.9	False	13C2-PFDoA	1470821.89	1250.00	11Cl-pf3OUdS	0.006	0.005	✓

Sample Name	LE59 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:26:38 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1448222.58	1162.61	3137.8	False	13C2-PFDA	1203371.59	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	192424.24	1316.94	1161.1	False	13C4-PFOS	202853.64	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	181865.21	1329.12	1178.6	False	13C4-PFOS	202853.64	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	1268759.74	1269.21	6628.1	False	13C2-PFOA	814595.82	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	1337854.93	1372.10	26974.5	False	13C2-PFOA	814595.82	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1608168.13	1286.86	1828375.2	False	13C2-PFOA	814595.82	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1559680.55	1332.98	3191.8	False	13C2-PFOA	814595.82	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1316054.53	1165.13	4739.3	False	13C2-PFDA	1203371.59	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1241265.36	1232.29	5111.7	False	13C2-PFDA	1203371.59	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1321759.06	1215.57	4646.2	False	13C2-PFDA	1203371.59	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	279541.73	1163.93	5158.7	False	13C4-PFOS	202853.64	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	240718.14	1245.62	47451.1	False	13C4-PFOS	202853.64	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	223463.13	1238.38	1553.3	False	13C4-PFOS	202853.64	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	437403.22	1225.89	4783.2	False	13C2-PFOA	814595.82	1250.00		N/A	N/A	✓

Sample Name	LE55 CCV	Injection Vial	19
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:11:33 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1483879.95	1218.98	4378.8	False	13C2-PFDA	1175974.15	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	187986.14	1302.65	1235.7	False	13C4-PFOS	200349.30	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	176582.56	1306.65	1369.2	False	13C4-PFOS	200349.30	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1274727.39	1276.94	7446.3	False	13C2-PFOA	813475.71	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1285194.41	1319.90	18125.6	False	13C2-PFOA	813475.71	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1625437.77	1302.47	5119.6	False	13C2-PFOA	813475.71	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1432600.94	1226.06	4596.3	False	13C2-PFOA	813475.71	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1259794.53	1141.31	15852.9	False	13C2-PFDA	1175974.15	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1218701.93	1238.08	3424.5	False	13C2-PFDA	1175974.15	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1268834.57	1194.09	3481.6	False	13C2-PFDA	1175974.15	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	275122.06	1159.85	6632.1	False	13C4-PFOS	200349.30	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	245092.05	1284.10	69858.8	False	13C4-PFOS	200349.30	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	223686.68	1255.11	4110.4	False	13C4-PFOS	200349.30	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	466614.51	1309.55	24806.0	False	13C2-PFOA	813475.71	1250.00		N/A	N/A	✓

Sample Name	LE54 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/13/2020 12:14:28 AM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1470821.89	1290.01	3524.9	False	13C2-PFDA	1101448.49	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.10	196797.80	1242.56	849.5	False	13C4-PFOS	219882.80	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.26	183185.93	1235.09	1150.8	False	13C4-PFOS	219882.80	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1328270.38	1255.32	6350.9	False	13C2-PFOA	862245.12	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	1350739.23	1308.75	1500.3	False	13C2-PFOA	862245.12	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1622813.50	1226.82	6688.8	False	13C2-PFOA	862245.12	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.60	1515458.83	1223.61	8650.0	False	13C2-PFOA	862245.12	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.95	1299364.31	1256.80	2614.1	False	13C2-PFDA	1101448.49	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.27	1275610.48	1383.58	3966.2	False	13C2-PFDA	1101448.49	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	1308712.76	1314.95	4534.8	False	13C2-PFDA	1101448.49	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	285108.00	1095.17	7946383.8	False	13C4-PFOS	219882.80	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	258030.58	1231.80	9890893.6	False	13C4-PFOS	219882.80	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.60	223689.31	1143.63	3981.8	False	13C4-PFOS	219882.80	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	424087.65	1122.88	3824.0	False	13C2-PFOA	862245.12	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	11/10/2020 9:10:26 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	278121.47	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	278121.47	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1267197.96	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1267197.96	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1231440.39	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1231440.39	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	210221.76	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	210221.76	1182.50	PFHxS	N/A	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1459209.00	1222.50	PFOA	N/A	0.093	✓
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1459209.00	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1405602.96	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1405602.96	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.61	6572.60	< 0	24.8	True	13C8-PFOS	205943.95	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	1273.36	< 0	34.6	False	13C8-PFOS	205943.95	1195.00	PFOS	0.194	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1357837.79	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1357837.79	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1150820.83	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1150820.83	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	3.60	12230.05	< 0	70.5	False	13C2-PFDoA	1394502.45	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.62	1424.28	< 0	84.6	False	13C2-PFDoA	1394502.45	1250.00	PFDoA	0.116	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.86	10577.46	< 0	118.3	True	13C2-PFTTeDA	1291941.46	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.86	1164.30	< 0	83.6	False	13C2-PFTTeDA	1291941.46	1250.00	PFTTrDA	0.110	0.070	
PFTTeDA_1	713.0 / 669.0	4.07	33631.51	< 0	307.4	False	13C2-PFTTeDA	1291941.46	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.10	687.42	< 0	71.3	True	13C2-PFTTeDA	1291941.46	1250.00	PFTTeDA	0.020	0.055	
NMeFOSAA_1	570.0 / 419.0	3.14	6182.43	87.50	4269.7	False	d3-MeFOSAA	191595.41	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	7127.38	28.85	135.4	True	d3-MeFOSAA	191595.41	1250.00	NMeFOSAA	1.153	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.31	8131.61	51.60	334.2	True	d5-EtFOSAA	177816.82	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	177816.82	1250.00	NEtFOSAA	N/A	0.055	
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	451894.36	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	451894.36	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	1.93	5589.58	< 0	122.4	False	13C3-PFHxS	210221.76	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	210221.76	1182.50	ADONA	N/A	0.015	
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1394502.45	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1394502.45	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	3052.05	< 0	51.6	False	13C2-PFDoA	1394502.45	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1394502.45	1250.00	11Cl-pf3OUdS	N/A	0.005	

Sample Name	DA945PB-FS(0)	Injection Vial	19
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:05:31 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	1.37	5817.56	< 0	130.9	True	13C3-PFBS	321855.25	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.34	2624.78	< 0	50.9	False	13C3-PFBS	321855.25	1162.50	PFBS	0.451	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1279087.41	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1279087.41	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1244895.30	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1244895.30	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.93	14246.87	< 0	70.0	False	13C3-PFHxS	236198.65	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.93	3773.76	< 0	54.0	True	13C3-PFHxS	236198.65	1182.50	PFHxS	0.265	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1503863.05	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1503863.05	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1480899.10	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1480899.10	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.64	65572.16	74.78	177.4	True	13C8-PFOS	222228.11	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	11549.41	24.90	240.5	False	13C8-PFOS	222228.11	1195.00	PFOS	0.176	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1283934.35	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1283934.35	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1146364.16	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1146364.16	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1435723.54	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1435723.54	1250.00	PFDoA	N/A	0.117	✓
PFTeDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1223034.76	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1223034.76	1250.00	PFTeDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1223034.76	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1223034.76	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	False	d3-MeFOSAA	208808.71	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	208808.71	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	187779.51	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	187779.51	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	454182.80	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	454182.80	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	236198.65	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	236198.65	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1435723.54	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1435723.54	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1435723.54	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1435723.54	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	DA946LCS-FS(0)	Injection Vial	20
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:15:58 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	6100252.10	10041.55	16627.9	False	13C3-PFBS	299358.65	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	1974316.66	9550.66	7976.5	False	13C3-PFBS	299358.65	1162.50	PFBS	0.324	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	10153923.75	9207.52	3329.3	False	13C5-PFHxA	1151178.84	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	623131.92	9081.51	2480.4	False	13C5-PFHxA	1151178.84	1250.00	PFHxA	0.061	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	7124640.96	8838.67	2311.0	False	13C4-PFHpA	1120523.12	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	218758.05	8907.74	2153.6	False	13C4-PFHpA	1120523.12	1250.00	PFHpA	0.031	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	6004751.70	10927.77	3059.3	False	13C3-PFHxS	210156.38	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	2171919.14	10848.34	3692.8	False	13C3-PFHxS	210156.38	1182.50	PFHxS	0.362	0.359	✓
PFOA_1	413.0 / 369.0	2.27	8959696.16	8386.51	1559.1	False	13C8-PFOA	1493682.52	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	988909.62	9682.16	1702.6	False	13C8-PFOA	1493682.52	1222.50	PFOA	0.110	0.093	✓
PFNA_1	463.0 / 419.0	2.64	8414875.98	9944.19	1703.6	False	13C9-PFNA	1257747.94	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	2813999.64	9703.12	4263.8	False	13C9-PFNA	1257747.94	1250.00	PFNA	0.334	0.338	✓
PFOS_1	499.0 / 80.0	2.63	5697092.39	8944.46	1590.0	False	13C8-PFOS	201042.03	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	1170500.75	9463.85	3328.3	False	13C8-PFOS	201042.03	1195.00	PFOS	0.205	0.203	✓
PFDA_1	513.0 / 469.0	2.99	8505760.73	9915.56	1561.5	False	13C6-PFDA	1113433.13	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	468510.83	8904.00	2078.5	False	13C6-PFDA	1113433.13	1250.00	PFDA	0.055	0.059	✓
PFUnA_1	563.0 / 519.0	3.31	7218477.37	8296.92	1946.1	False	13C7-PFUnA	997502.47	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	498092.44	8494.28	2082.4	False	13C7-PFUnA	997502.47	1250.00	PFUnA	0.069	0.061	✓
PFDoA_1	613.0 / 569.0	3.60	9027864.12	9326.08	2401.4	False	13C2-PFDoA	1291427.14	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.60	1098250.99	9342.97	4036.6	False	13C2-PFDoA	1291427.14	1250.00	PFDoA	0.122	0.117	✓
PFTeDA_1	663.0 / 619.0	3.86	7582345.98	9805.16	2964.4	False	13C2-PFTeDA	1152178.23	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	3.86	557999.37	9618.87	2867.1	False	13C2-PFTeDA	1152178.23	1250.00	PFTeDA	0.074	0.070	✓
PFTeDA_1	713.0 / 669.0	4.09	8767375.03	9425.58	4524.0	False	13C2-PFTeDA	1152178.23	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.09	480317.63	8903.69	3960.3	False	13C2-PFTeDA	1152178.23	1250.00	PFTeDA	0.055	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	994221.22	8507.27	28607.9	False	d3-MeFOSAA	179062.02	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.14	1099094.84	9426.04	3171.8	False	d3-MeFOSAA	179062.02	1250.00	NMeFOSAA	1.105	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.30	1009595.26	8482.00	2598.4	False	d5-EtFOSAA	145068.09	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.30	58493.96	8682.62	4719.7	False	d5-EtFOSAA	145068.09	1250.00	NEtFOSAA	0.058	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	7845179.78	9753.99	6135.3	False	13C3-HFPO-DA	466029.33	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	174241.90	9809.21	73737.5	False	13C3-HFPO-DA	466029.33	1250.00	HFPO-DA	0.022	0.023	✓
ADONA_1	377.0 / 251.0	1.94	19039776.30	9916.86	17062.7	False	13C3-PFHxS	210156.38	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	301105.74	10076.53	8362.7	False	13C3-PFHxS	210156.38	1182.50	ADONA	0.016	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.84	11032972.03	9253.33	3948.5	False	13C2-PFDoA	1291427.14	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.84	106416.87	8718.18	1639.6	False	13C2-PFDoA	1291427.14	1250.00	9CI-PF3ONS	0.010	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.47	7473357.10	9017.31	3435.3	False	13C2-PFDoA	1291427.14	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.47	36576.37	8455.30	1735.3	False	13C2-PFDoA	1291427.14	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

Sample Name	G1765-FS(0)	Injection Vial	21
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:26:27 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	5754599.26	22643.57	1834.9	False	13C3-PFBS	126094.88	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	1890472.84	21838.08	1839.3	False	13C3-PFBS	126094.88	1162.50	PFBS	0.329	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	99964340.96	409861.94	1277.6	False	13C5-PFHxA	256564.48	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	5084807.66	334872.86	1396.6	False	13C5-PFHxA	256564.48	1250.00	PFHxA	0.051	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	16096977.76	120144.01	598.0	False	13C4-PFHpA	187418.64	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	688657.96	168663.32	1683.8	False	13C4-PFHpA	187418.64	1250.00	PFHpA	0.043	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	100431821.05	1070660.13	3282.4	False	13C3-PFHxS	36211.54	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	31687063.97	925889.05	3080.7	False	13C3-PFHxS	36211.54	1182.50	PFHxS	0.316	0.359	✓
PFOA_1	413.0 / 369.0	2.27	53881252.84	316123.32	1066.4	False	13C8-PFOA	240091.85	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	5643588.40	345058.00	2021.6	False	13C8-PFOA	240091.85	1222.50	PFOA	0.105	0.093	✓
PFNA_1	463.0 / 419.0	2.63	31599198.42	320119.48	1174.1	False	13C9-PFNA	147773.48	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	10280289.58	303565.95	1434.5	False	13C9-PFNA	147773.48	1250.00	PFNA	0.325	0.338	✓
PFOS_1	499.0 / 80.0	2.57	348126752.02	4062870.09	3307.3	False	13C8-PFOS	27101.26	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	64871664.65	3915540.43	7351.3	False	13C8-PFOS	27101.26	1195.00	PFOS	0.186	0.203	✓
PFDA_1	513.0 / 469.0	2.99	27707887.13	98686.11	1336.3	False	13C6-PFDA	365670.41	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	2148347.82	124236.83	1830.2	False	13C6-PFDA	365670.41	1250.00	PFDA	0.078	0.059	✓
PFUnA_1	563.0 / 519.0	3.31	214392296.55	914772.32	5753.8	False	13C7-PFUnA	270826.52	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	15148781.15	947896.00	1877.5	False	13C7-PFUnA	270826.52	1250.00	PFUnA	0.071	0.061	✓
PFDoA_1	613.0 / 569.0	3.60	21963643.39	44668.30	2051.5	False	13C2-PFDoA	659369.98	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.60	2207403.18	36854.89	1869.3	False	13C2-PFDoA	659369.98	1250.00	PFDoA	0.101	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.86	58014738.17	167557.58	2554.6	True	13C2-PFTeDA	521683.74	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.85	4965653.72	189877.84	1027.5	True	13C2-PFTeDA	521683.74	1250.00	PFTTrDA	0.086	0.070	✓
PFTeDA_1	713.0 / 669.0	4.09	85853.76	134.08	551.2	True	13C2-PFTeDA	521683.74	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.09	6687.44	249.71	132.0	True	13C2-PFTeDA	521683.74	1250.00	PFTeDA	0.078	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.13	118073.69	1852.90	147.3	True	d3-MeFOSAA	99247.52	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	95121.13	1447.81	404.7	False	d3-MeFOSAA	99247.52	1250.00	NMeFOSAA	0.806	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.24	119965.03	4717.40	105.8	True	d5-EtFOSAA	30981.68	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.18	6794.88	4731.19	45.2	True	d5-EtFOSAA	30981.68	1250.00	NEtFOSAA	0.057	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	14876.66	< 0	65.3	False	13C3-HFPO-DA	287599.27	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	287599.27	1250.00	HFPO-DA	N/A	0.023	
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	36211.54	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	36211.54	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	659369.98	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	659369.98	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	659369.98	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	659369.98	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1765-FS-D(3)	Injection Vial	22
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:36:56 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	234170.46	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	234170.46	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	49286625.55	78977.30	1330.4	False	13C5-PFHxA	655984.15	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	2633346.30	67776.17	1322.7	False	13C5-PFHxA	655984.15	1250.00	PFHxA	0.053	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	594104.03	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	594104.03	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	59457841.45	182591.94	3927.4	False	13C3-PFHxS	125646.63	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	19240149.43	161952.32	3695.8	False	13C3-PFHxS	125646.63	1182.50	PFHxS	0.324	0.359	✓
PFOA_1	413.0 / 369.0	2.27	28417661.76	51100.49	1053.4	False	13C8-PFOA	782525.95	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	2981396.72	55897.18	1767.1	False	13C8-PFOA	782525.95	1222.50	PFOA	0.105	0.093	✓
PFNA_1	463.0 / 419.0	2.64	17488397.87	57494.33	1307.2	False	13C9-PFNA	454882.90	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	5946259.07	56991.09	1693.6	False	13C9-PFNA	454882.90	1250.00	PFNA	0.340	0.338	✓
PFOS_1	499.0 / 80.0	2.60	167040789.65	781194.70	3373.8	False	13C8-PFOS	67630.08	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	33643466.24	813694.78	4926.4	False	13C8-PFOS	67630.08	1195.00	PFOS	0.201	0.203	✓
PFDA_1	513.0 / 469.0	2.99	11964452.52	18371.58	1321.9	False	13C6-PFDA	846775.70	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	828618.87	20698.34	1996.5	False	13C6-PFDA	846775.70	1250.00	PFDA	0.069	0.059	✓
PFUnA_1	563.0 / 519.0	3.32	100620745.21	180811.97	4307.4	False	13C7-PFUnA	642877.48	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.32	6207419.43	163654.79	3283.6	False	13C7-PFUnA	642877.48	1250.00	PFUnA	0.062	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1033183.85	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1033183.85	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.86	16643007.64	24870.64	2433.1	True	13C2-PFTeDA	1004240.54	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.85	1539953.10	30552.50	1075.9	True	13C2-PFTeDA	1004240.54	1250.00	PFTTrDA	0.093	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1004240.54	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1004240.54	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	148990.13	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	148990.13	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	86172.51	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	86172.51	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	361035.68	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	361035.68	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	125646.63	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	125646.63	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1033183.85	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1033183.85	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1033183.85	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1033183.85	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1765-FS-D(5)	Injection Vial	23
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:47:24 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	269686.00	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	269686.00	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	26690059.12	29287.96	1342.9	False	13C5-PFHxA	956423.12	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	1543197.60	27201.93	1366.3	False	13C5-PFHxA	956423.12	1250.00	PFHxA	0.058	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	956568.62	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	956568.62	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	30301162.25	69612.96	3135.1	False	13C3-PFHxS	167800.70	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	10923923.64	68801.17	3248.2	False	13C3-PFHxS	167800.70	1182.50	PFHxS	0.361	0.359	✓
PFOA_1	413.0 / 369.0	2.26	16861200.95	22150.19	1115.7	False	13C8-PFOA	1069372.43	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	1592151.98	21820.64	2202.4	False	13C8-PFOA	1069372.43	1222.50	PFOA	0.094	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	747149.21	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	747149.21	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.60	97770276.05	258298.03	4207.4	False	13C8-PFOS	119713.07	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	18946898.13	258838.28	4619.6	False	13C8-PFOS	119713.07	1195.00	PFOS	0.194	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1084169.06	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1084169.06	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	3.29	51525303.27	69075.59	3084.5	False	13C7-PFUnA	861207.00	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.29	3099092.34	61012.46	2163.2	False	13C7-PFUnA	861207.00	1250.00	PFUnA	0.060	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1286793.61	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1286793.61	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1102844.73	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1102844.73	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1102844.73	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1102844.73	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	162239.49	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	162239.49	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	117365.83	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	117365.83	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	394779.37	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	394779.37	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	167800.70	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	167800.70	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1286793.61	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1286793.61	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1286793.61	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1286793.61	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1765-FS-D(7)	Injection Vial	24
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:57:52 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	277066.63	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	277066.63	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	11718082.83	11110.27	1202.1	False	13C5-PFHxA	1102468.90	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	681488.65	10380.26	1393.9	False	13C5-PFHxA	1102468.90	1250.00	PFHxA	0.058	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1113397.51	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1113397.51	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	14874537.69	24925.68	3342.8	False	13C3-PFHxS	229439.32	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	5291310.53	24316.12	5790.7	False	13C3-PFHxS	229439.32	1182.50	PFHxS	0.356	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1190522.64	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1190522.64	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1010356.12	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1010356.12	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.63	48496396.25	91659.95	3637.4	False	13C8-PFOS	167312.73	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	10255382.77	100206.35	4749.5	False	13C8-PFOS	167312.73	1195.00	PFOS	0.211	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1108561.52	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1108561.52	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	3.31	23745232.53	28378.53	2784.2	False	13C7-PFUnA	964726.13	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	1420072.52	24976.61	3371.9	False	13C7-PFUnA	964726.13	1250.00	PFUnA	0.060	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1293482.52	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1293482.52	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1133387.30	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1133387.30	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1133387.30	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1133387.30	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	163964.02	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	163964.02	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	145633.92	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	145633.92	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	388933.80	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	388933.80	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	229439.32	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	229439.32	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1293482.52	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1293482.52	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1293482.52	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1293482.52	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1765-FS-D(9)	Injection Vial	25
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:08:20 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	274675.66	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	274675.66	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1237432.26	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1237432.26	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1178025.12	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1178025.12	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	3142508.30	5177.90	2806.8	False	13C3-PFHxS	229723.33	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	1126363.27	5100.61	2450.8	False	13C3-PFHxS	229723.33	1182.50	PFHxS	0.358	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1358035.21	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1358035.21	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1318341.04	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1318341.04	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.63	11661744.46	17567.78	2553.3	False	13C8-PFOS	209737.24	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	2333847.13	18142.33	3872.3	False	13C8-PFOS	209737.24	1195.00	PFOS	0.200	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1303600.04	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1303600.04	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	3.31	5628319.41	5530.78	1624.0	False	13C7-PFUnA	1162162.74	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	317058.74	4655.71	1887.2	False	13C7-PFUnA	1162162.74	1250.00	PFUnA	0.056	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1342265.14	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1342265.14	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1157346.92	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1157346.92	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1157346.92	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1157346.92	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	168355.35	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	168355.35	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	172894.24	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	172894.24	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	406528.21	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	406528.21	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	229723.33	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	229723.33	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1342265.14	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1342265.14	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1342265.14	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1342265.14	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1766-FS(0)	Injection Vial	28
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:39:43 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	9598928.26	43326.53	1751.3	False	13C3-PFBS	110213.78	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	3176825.67	42077.48	1647.8	False	13C3-PFBS	110213.78	1162.50	PFBS	0.331	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	162146617.32	790567.02	1523.7	False	13C5-PFHxA	215772.10	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	8490188.14	664915.97	1349.9	False	13C5-PFHxA	215772.10	1250.00	PFHxA	0.052	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	43595265.03	408200.75	1006.8	False	13C4-PFHpA	149447.74	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	1790127.29	549952.85	1954.7	False	13C4-PFHpA	149447.74	1250.00	PFHpA	0.041	0.030	✓
PFHxS_1	399.0 / 80.0	1.90	149754231.81	1795055.81	2578.6	False	13C3-PFHxS	32206.63	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	46448101.25	1526028.88	4409.9	False	13C3-PFHxS	32206.63	1182.50	PFHxS	0.310	0.359	✓
PFOA_1	413.0 / 369.0	2.27	88963469.73	676906.26	992.2	False	13C8-PFOA	185151.33	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	8838726.21	700811.32	2315.5	False	13C8-PFOA	185151.33	1222.50	PFOA	0.099	0.093	✓
PFNA_1	463.0 / 419.0	2.63	42227887.62	599019.28	1513.5	False	13C9-PFNA	105545.03	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	13958169.06	577134.04	1310.8	False	13C9-PFNA	105545.03	1250.00	PFNA	0.331	0.338	✓
PFOS_1	499.0 / 80.0	2.59	454294432.72	8586532.74	3812.5	False	13C8-PFOS	16734.23	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	85771722.14	8384326.62	8620.7	False	13C8-PFOS	16734.23	1195.00	PFOS	0.189	0.203	✓
PFDA_1	513.0 / 469.0	3.00	16388223.91	57140.78	1167.7	False	13C6-PFDA	373429.21	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	1272924.39	72085.24	1414.0	False	13C6-PFDA	373429.21	1250.00	PFDA	0.078	0.059	✓
PFUnA_1	563.0 / 519.0	3.31	101924918.32	197844.32	4052.8	False	13C7-PFUnA	595166.23	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	6164334.98	175544.78	2207.6	False	13C7-PFUnA	595166.23	1250.00	PFUnA	0.060	0.061	✓
PFDoA_1	613.0 / 569.0	3.60	576262.21	621.84	691.7	False	13C2-PFDoA	1133164.46	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.60	48587.05	446.69	566.4	False	13C2-PFDoA	1133164.46	1250.00	PFDoA	0.084	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.85	972283.37	1305.03	1815.5	False	13C2-PFTeDA	1030661.30	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.85	59300.86	1103.71	597.1	True	13C2-PFTeDA	1030661.30	1250.00	PFTTrDA	0.061	0.070	✓
PFTeDA_1	713.0 / 669.0	4.09	6869.65	< 0	88.0	False	13C2-PFTeDA	1030661.30	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.09	281.68	< 0	17.5	False	13C2-PFTeDA	1030661.30	1250.00	PFTeDA	0.041	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.14	11751.74	198.68	47.1	True	d3-MeFOSAA	111747.60	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.14	13554.69	158.38	115.1	False	d3-MeFOSAA	111747.60	1250.00	NMeFOSAA	1.153	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.27	27788.18	441.47	243.2	False	d5-EtFOSAA	76035.26	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.29	1658.27	487.27	204.5	True	d5-EtFOSAA	76035.26	1250.00	NEtFOSAA	0.060	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	34421.46	5.49	124.0	False	13C3-HFPO-DA	334158.50	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	973.69	< 0	30.6	False	13C3-HFPO-DA	334158.50	1250.00	HFPO-DA	0.028	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	32206.63	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	32206.63	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1133164.46	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1133164.46	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1133164.46	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1133164.46	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1766-FS-D(3)	Injection Vial	29
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:50:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	217294.66	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	217294.66	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	86808732.59	156469.83	2003.9	False	13C5-PFHxA	583441.27	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	5038103.13	145868.06	1681.3	False	13C5-PFHxA	583441.27	1250.00	PFHxA	0.058	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	29457377.40	88943.00	1303.1	False	13C4-PFHpA	463208.69	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	1080958.31	107097.26	2137.4	False	13C4-PFHpA	463208.69	1250.00	PFHpA	0.037	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	90536197.96	354452.97	3360.3	False	13C3-PFHxS	98583.93	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	27991767.58	300373.96	4247.3	False	13C3-PFHxS	98583.93	1182.50	PFHxS	0.309	0.359	✓
PFOA_1	413.0 / 369.0	2.28	52353853.63	127029.02	1232.0	False	13C8-PFOA	580376.29	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	5052876.22	127779.89	3536.0	False	13C8-PFOA	580376.29	1222.50	PFOA	0.097	0.093	✓
PFNA_1	463.0 / 419.0	2.64	25812559.06	118152.80	1754.8	False	13C9-PFNA	326925.02	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	8348236.82	111388.07	1617.9	False	13C9-PFNA	326925.02	1250.00	PFNA	0.323	0.338	✓
PFOS_1	499.0 / 80.0	2.61	243629158.18	1609087.98	3879.6	False	13C8-PFOS	47888.52	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	46679820.89	1594461.93	6521.9	False	13C8-PFOS	47888.52	1195.00	PFOS	0.192	0.203	✓
PFDA_1	513.0 / 469.0	2.99	7236433.01	10945.57	1057.1	False	13C6-PFDA	858437.05	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	495517.58	12212.22	1387.5	False	13C6-PFDA	858437.05	1250.00	PFDA	0.068	0.059	✓
PFUnA_1	563.0 / 519.0	3.31	30911718.09	40520.81	2769.6	False	13C7-PFUnA	880165.91	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	1814045.53	34958.15	2496.8	False	13C7-PFUnA	880165.91	1250.00	PFUnA	0.059	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1231523.42	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1231523.42	1250.00	PFDoA	N/A	0.117	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1124676.61	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1124676.61	1250.00	PFTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1124676.61	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1124676.61	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	150698.97	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	150698.97	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	112890.09	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	112890.09	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	419574.36	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	419574.36	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	98583.93	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	98583.93	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1231523.42	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1231523.42	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1231523.42	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1231523.42	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1766-FS-D(5)	Injection Vial	30
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:00:39 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	317675.70	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	317675.70	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	31012741.50	31564.76	2199.3	False	13C5-PFHxA	1031347.41	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	1829812.68	29917.54	2458.2	False	13C5-PFHxA	1031347.41	1250.00	PFHxA	0.059	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	10885928.06	14830.73	1489.1	False	13C4-PFHpA	1023138.33	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	362746.19	16223.01	1644.7	False	13C4-PFHpA	1023138.33	1250.00	PFHpA	0.033	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	31184141.24	65661.67	3842.2	False	13C3-PFHxS	183066.01	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	10712774.58	61836.20	5921.3	False	13C3-PFHxS	183066.01	1182.50	PFHxS	0.344	0.359	✓
PFOA_1	413.0 / 369.0	2.27	17897385.85	20447.51	1249.0	False	13C8-PFOA	1229311.05	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	1785067.71	21280.70	2088.2	True	13C8-PFOA	1229311.05	1222.50	PFOA	0.100	0.093	✓
PFNA_1	463.0 / 419.0	2.64	11811500.49	22387.67	1611.5	False	13C9-PFNA	787402.74	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	3987634.92	22041.32	2244.2	False	13C9-PFNA	787402.74	1250.00	PFNA	0.338	0.338	✓
PFOS_1	499.0 / 80.0	2.64	95573946.63	225164.25	3460.6	False	13C8-PFOS	134242.89	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	19248460.40	234491.00	4245.0	False	13C8-PFOS	134242.89	1195.00	PFOS	0.201	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1196050.15	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1196050.15	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	3.31	7473772.92	8067.47	1694.3	False	13C7-PFUnA	1061916.73	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	421620.98	6760.71	2248.0	False	13C7-PFUnA	1061916.73	1250.00	PFUnA	0.056	0.061	✓
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1296143.59	1250.00	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1296143.59	1250.00	PFDaA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1159870.41	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1159870.41	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1159870.41	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1159870.41	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	161110.23	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	161110.23	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	158494.50	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	158494.50	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	407716.32	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	407716.32	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	183066.01	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	183066.01	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1296143.59	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1296143.59	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1296143.59	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1296143.59	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1766-FS-D(7)	Injection Vial	31
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:11:06 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	277994.61	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	277994.61	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	12686205.33	11968.92	1656.5	False	13C5-PFHxA	1108443.86	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	806870.03	12235.59	1961.4	False	13C5-PFHxA	1108443.86	1250.00	PFHxA	0.064	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	5150585.82	6639.69	1157.1	False	13C4-PFHpA	1075927.75	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	160715.19	6802.21	1304.1	False	13C4-PFHpA	1075927.75	1250.00	PFHpA	0.031	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	13994375.53	24984.56	3902.4	False	13C3-PFHxS	215356.20	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	4910707.21	24041.84	3910.0	False	13C3-PFHxS	215356.20	1182.50	PFHxS	0.351	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1467826.46	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1467826.46	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1067352.85	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1067352.85	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.63	47328598.95	88972.48	3797.1	False	13C8-PFOS	168214.90	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	9967330.11	96867.42	3993.9	False	13C8-PFOS	168214.90	1195.00	PFOS	0.211	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1299322.57	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1299322.57	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1059975.05	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1059975.05	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1308432.18	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1308432.18	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1159676.51	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1159676.51	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1159676.51	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1159676.51	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	170037.36	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	170037.36	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	159969.14	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	159969.14	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	407643.24	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	407643.24	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	215356.20	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	215356.20	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1308432.18	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1308432.18	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1308432.18	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1308432.18	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1766-FS-D(9)	Injection Vial	32
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:21:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	275684.22	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	275684.22	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1281759.96	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1281759.96	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1226273.99	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1226273.99	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	3023860.51	5143.49	2065.6	False	13C3-PFHxS	222499.68	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	1088688.75	5089.88	2617.3	False	13C3-PFHxS	222499.68	1182.50	PFHxS	0.360	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1457168.36	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1457168.36	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1351411.87	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1351411.87	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.64	11239624.66	19704.56	1781.0	False	13C8-PFOS	180245.10	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	2374785.99	21492.19	2790.6	False	13C8-PFOS	180245.10	1195.00	PFOS	0.211	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1323755.57	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1323755.57	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1166029.54	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1166029.54	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1223131.97	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1223131.97	1250.00	PFDoA	N/A	0.117	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1165512.92	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1165512.92	1250.00	PFTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1165512.92	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1165512.92	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	179936.22	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	179936.22	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	178577.11	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	178577.11	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	422076.63	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	422076.63	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	222499.68	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	222499.68	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1223131.97	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1223131.97	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1223131.97	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1223131.97	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1767-FS(0)	Injection Vial	33
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:32:03 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	9641905.48	45373.64	1464.6	False	13C3-PFBS	105726.22	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	3162601.43	43670.83	2057.8	False	13C3-PFBS	105726.22	1162.50	PFBS	0.328	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	165155797.01	884154.99	1469.0	False	13C5-PFHxA	196515.01	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	8879425.13	763553.47	1320.9	False	13C5-PFHxA	196515.01	1250.00	PFHxA	0.054	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	44032265.76	443001.98	1005.5	False	13C4-PFHpA	139089.46	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	1894066.93	625226.51	1958.6	False	13C4-PFHpA	139089.46	1250.00	PFHpA	0.043	0.030	✓
PFHxS_1	399.0 / 80.0	1.90	155966095.32	2207199.54	2625.4	False	13C3-PFHxS	27279.56	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	49673408.96	1926778.66	4205.8	False	13C3-PFHxS	27279.56	1182.50	PFHxS	0.318	0.359	✓
PFOA_1	413.0 / 369.0	2.28	85181334.02	653674.59	1002.9	False	13C8-PFOA	183579.85	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	9410639.09	752547.60	2007.7	False	13C8-PFOA	183579.85	1222.50	PFOA	0.110	0.093	✓
PFNA_1	463.0 / 419.0	2.63	43748669.68	636547.84	1509.4	False	13C9-PFNA	102900.20	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	14144170.02	599858.82	1394.9	False	13C9-PFNA	102900.20	1250.00	PFNA	0.323	0.338	✓
PFOS_1	499.0 / 80.0	2.58	484156203.64	9243928.62	3698.3	False	13C8-PFOS	16565.90	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	92514347.29	9135325.02	7351.8	False	13C8-PFOS	16565.90	1195.00	PFOS	0.191	0.203	✓
PFDA_1	513.0 / 469.0	2.99	17655847.46	61295.41	1111.1	False	13C6-PFDA	375061.44	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	1399876.81	78928.90	1147.4	False	13C6-PFDA	375061.44	1250.00	PFDA	0.079	0.059	✓
PFUnA_1	563.0 / 519.0	3.30	111871182.72	212562.69	3764.1	False	13C7-PFUnA	608026.79	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	6479646.70	180620.19	2107.8	False	13C7-PFUnA	608026.79	1250.00	PFUnA	0.058	0.061	✓
PFDoA_1	613.0 / 569.0	3.59	653148.46	710.25	780.7	False	13C2-PFDoA	1137143.45	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	52509.69	483.04	553.6	False	13C2-PFDoA	1137143.45	1250.00	PFDoA	0.080	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.84	1035597.93	1476.49	1657.3	False	13C2-PFTeDA	979684.77	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.84	68074.37	1342.13	732.9	True	13C2-PFTeDA	979684.77	1250.00	PFTTrDA	0.066	0.070	✓
PFTeDA_1	713.0 / 669.0	4.07	8646.01	< 0	104.5	False	13C2-PFTeDA	979684.77	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.08	572.73	< 0	27.5	False	13C2-PFTeDA	979684.77	1250.00	PFTeDA	0.066	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.12	14445.23	223.43	54.0	True	d3-MeFOSAA	119001.97	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	12803.06	137.26	107.9	False	d3-MeFOSAA	119001.97	1250.00	NMeFOSAA	0.886	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.27	32641.13	528.13	215.5	False	d5-EtFOSAA	74773.69	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.20	1475.26	442.58	26.6	False	d5-EtFOSAA	74773.69	1250.00	NEtFOSAA	0.045	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	35168.22	8.46	120.5	False	13C3-HFPO-DA	323809.96	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.67	912.08	< 0	28.2	False	13C3-HFPO-DA	323809.96	1250.00	HFPO-DA	0.026	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	27279.56	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	27279.56	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1137143.45	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1137143.45	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	3872.91	< 0	121.3	False	13C2-PFDoA	1137143.45	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1137143.45	1250.00	11Cl-PF3OUdS	N/A	0.005	

Sample Name	G1767-FS-D(3)	Injection Vial	34
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:42:31 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	218461.36	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	218461.36	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	91979045.27	179176.69	1895.6	False	13C5-PFHxA	539880.05	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	5233526.63	163760.46	1897.8	False	13C5-PFHxA	539880.05	1250.00	PFHxA	0.057	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	28589208.99	91941.44	1103.9	False	13C4-PFHpA	434905.38	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	1055016.11	111331.78	2145.2	False	13C4-PFHpA	434905.38	1250.00	PFHpA	0.037	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	92078767.77	396014.34	3768.7	False	13C3-PFHxS	89743.79	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	30061196.37	354371.93	4340.8	False	13C3-PFHxS	89743.79	1182.50	PFHxS	0.326	0.359	✓
PFOA_1	413.0 / 369.0	2.27	55583343.63	134613.81	1426.4	False	13C8-PFOA	581475.53	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	5671918.16	143167.95	2026.9	False	13C8-PFOA	581475.53	1222.50	PFOA	0.102	0.093	✓
PFNA_1	463.0 / 419.0	2.63	25010747.02	119085.56	1654.8	False	13C9-PFNA	314290.19	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	8655947.89	120141.59	1535.7	False	13C9-PFNA	314290.19	1250.00	PFNA	0.346	0.338	✓
PFOS_1	499.0 / 80.0	2.60	253141400.05	1518749.47	4067.7	False	13C8-PFOS	52717.97	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	48984276.96	1519895.07	4843.4	False	13C8-PFOS	52717.97	1195.00	PFOS	0.194	0.203	✓
PFDA_1	513.0 / 469.0	2.98	7725534.84	11946.18	1260.2	False	13C6-PFDA	839935.81	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	549322.33	13835.60	1965.9	False	13C6-PFDA	839935.81	1250.00	PFDA	0.071	0.059	✓
PFUnA_1	563.0 / 519.0	3.30	34671322.29	45983.94	2578.1	False	13C7-PFUnA	870097.06	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	1961770.85	38239.35	2452.4	False	13C7-PFUnA	870097.06	1250.00	PFUnA	0.057	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1224721.29	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1224721.29	1250.00	PFDoA	N/A	0.117	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1150717.05	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1150717.05	1250.00	PFTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1150717.05	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1150717.05	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	159104.84	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	159104.84	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	126756.14	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	126756.14	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	400323.94	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	400323.94	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	89743.79	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	89743.79	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1224721.29	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1224721.29	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1224721.29	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1224721.29	1250.00	11Cl-pf3OUdS	N/A	0.005	✓



Sample Name	G1767-FS-D(7)	Injection Vial	35
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:52:58 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	297956.98	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	297956.98	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.58	14839980.28	13823.37	2003.1	False	13C5-PFHxA	1123590.98	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	922448.00	13808.17	2120.2	False	13C5-PFHxA	1123590.98	1250.00	PFHxA	0.062	0.062	✓
PFHpA_1	363.0 / 319.0	1.91	5884147.26	7371.01	1385.3	False	13C4-PFHpA	1108198.30	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.91	174676.36	7180.96	1734.4	False	13C4-PFHpA	1108198.30	1250.00	PFHpA	0.030	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	16429077.53	30422.10	3447.8	False	13C3-PFHxS	207787.60	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	5509489.74	27970.16	3503.0	False	13C3-PFHxS	207787.60	1182.50	PFHxS	0.335	0.359	✓
PFOA_1	413.0 / 369.0	2.27	10179637.69	9859.40	1158.0	False	13C8-PFOA	1445191.37	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	997901.40	10099.64	1811.0	True	13C8-PFOA	1445191.37	1222.50	PFOA	0.098	0.093	✓
PFNA_1	463.0 / 419.0	2.65	6224403.91	9010.12	1329.9	False	13C9-PFNA	1026007.17	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	2097430.21	8860.48	1992.1	False	13C9-PFNA	1026007.17	1250.00	PFNA	0.337	0.338	✓
PFOS_1	499.0 / 80.0	2.64	51790144.08	106519.97	2626.6	False	13C8-PFOS	153754.38	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	11187539.25	118965.35	3533.8	False	13C8-PFOS	153754.38	1195.00	PFOS	0.216	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1202200.03	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1202200.03	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	3.31	3813762.61	3993.31	1263.2	False	13C7-PFUnA	1085743.38	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	193695.85	3055.73	1388.2	False	13C7-PFUnA	1085743.38	1250.00	PFUnA	0.051	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1382665.79	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1382665.79	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1196427.84	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1196427.84	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1196427.84	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1196427.84	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	186440.27	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	186440.27	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	169913.15	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	169913.15	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	393166.62	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	393166.62	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	207787.60	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	207787.60	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1382665.79	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1382665.79	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1382665.79	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1382665.79	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1767-FS-D(9)	Injection Vial	36
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:03:27 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	268335.89	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	268335.89	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	3077292.53	2521.41	1317.2	False	13C5-PFHxA	1248102.73	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	184770.82	2435.44	1485.2	False	13C5-PFHxA	1248102.73	1250.00	PFHxA	0.060	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1216547.53	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1216547.53	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	3289848.15	6054.97	2471.0	False	13C3-PFHxS	206243.02	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	1135359.15	5737.46	2095.5	False	13C3-PFHxS	206243.02	1182.50	PFHxS	0.345	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1553114.14	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1553114.14	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1273377.84	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1273377.84	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.63	12152412.63	18336.16	1972.8	False	13C8-PFOS	209412.29	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	2579755.33	20091.47	2616.2	False	13C8-PFOS	209412.29	1195.00	PFOS	0.212	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1313702.74	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1313702.74	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1085576.27	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1085576.27	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1447491.16	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1447491.16	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1218457.54	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1218457.54	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1218457.54	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1218457.54	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	177499.22	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	177499.22	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	170796.17	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	170796.17	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	395913.62	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	395913.62	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	206243.02	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	206243.02	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1447491.16	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1447491.16	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1447491.16	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1447491.16	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1768-FS(0)	Injection Vial	39
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:34:50 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	22742807.53	180006.59	2732.6	False	13C3-PFBS	62990.14	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	7387795.13	171518.22	2552.5	False	13C3-PFBS	62990.14	1162.50	PFBS	0.325	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	225933100.06	2040546.36	1408.9	False	13C5-PFHxA	116488.74	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	11488677.65	1666698.08	1203.8	False	13C5-PFHxA	116488.74	1250.00	PFHxA	0.051	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	72403998.47	1994479.39	1007.8	False	13C4-PFHpA	50805.14	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	3257018.78	2943607.01	2127.9	False	13C4-PFHpA	50805.14	1250.00	PFHpA	0.045	0.030	✓
PFHxS_1	399.0 / 80.0	1.89	263599002.83	7867316.76	2772.3	False	13C3-PFHxS	12935.42	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	80169185.86	6558222.65	4024.7	False	13C3-PFHxS	12935.42	1182.50	PFHxS	0.304	0.359	✓
PFOA_1	413.0 / 369.0	2.26	169743008.67	1875533.44	1441.1	False	13C8-PFOA	127507.95	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	20325298.76	2340207.09	4075.0	False	13C8-PFOA	127507.95	1222.50	PFOA	0.120	0.093	✓
PFNA_1	463.0 / 419.0	2.59	59606744.83	2962844.39	1951.9	False	13C9-PFNA	30123.72	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.59	18977149.36	2749445.33	2312.1	False	13C9-PFNA	30123.72	1250.00	PFNA	0.318	0.338	✓
PFOS_1	499.0 / 80.0	2.56	940720851.48	29429338.98	5584.7	False	13C8-PFOS	10110.37	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.58	181219071.34	29320329.01	8346.6	False	13C8-PFOS	10110.37	1195.00	PFOS	0.193	0.203	✓
PFDA_1	513.0 / 469.0	2.97	20986202.70	97951.92	1299.0	False	13C6-PFDA	279037.20	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.96	1926119.42	145966.54	1062.1	False	13C6-PFDA	279037.20	1250.00	PFDA	0.092	0.059	
PFUnA_1	563.0 / 519.0	3.28	99497531.07	204784.60	5296.2	False	13C7-PFUnA	561308.24	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.28	6352032.34	191798.15	2076.1	False	13C7-PFUnA	561308.24	1250.00	PFUnA	0.064	0.061	✓
PFDoA_1	613.0 / 569.0	3.55	895101.18	1063.37	858.8	False	13C2-PFDoA	1068967.11	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.56	68700.68	682.34	684.1	False	13C2-PFDoA	1068967.11	1250.00	PFDoA	0.077	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.80	4600740.65	6620.77	2400.6	False	13C2-PFTeDA	1029500.73	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.80	316404.07	6087.96	1414.3	True	13C2-PFTeDA	1029500.73	1250.00	PFTTrDA	0.069	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1029500.73	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1029500.73	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.11	15418.66	277.02	76.1	True	d3-MeFOSAA	98506.75	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.10	11120.90	145.44	83.7	True	d3-MeFOSAA	98506.75	1250.00	NMeFOSAA	0.721	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.27	31185.47	539.02	477.6	False	d5-EtFOSAA	70006.97	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.23	1994.09	630.69	47.4	False	d5-EtFOSAA	70006.97	1250.00	NEtFOSAA	0.064	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	51184.08	59.56	145.1	False	13C3-HFPO-DA	249829.61	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	1688.11	67.19	46.7	False	13C3-HFPO-DA	249829.61	1250.00	HFPO-DA	0.033	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	12935.42	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	12935.42	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1068967.11	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1068967.11	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1068967.11	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1068967.11	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1768-FS-D(3)	Injection Vial	40
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:45:18 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	10961698.55	30400.92	3340.1	False	13C3-PFBS	179154.32	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	3654638.82	29749.80	2423.5	False	13C3-PFBS	179154.32	1162.50	PFBS	0.333	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	136177426.63	371674.72	1929.0	False	13C5-PFHxA	385410.19	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	7353124.73	322364.60	1544.8	False	13C5-PFHxA	385410.19	1250.00	PFHxA	0.054	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	52434160.90	343894.90	1467.5	False	13C4-PFHpA	213353.84	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	2082171.78	448060.67	2603.7	False	13C4-PFHpA	213353.84	1250.00	PFHpA	0.040	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	175468200.41	1579372.99	4180.6	False	13C3-PFHxS	42889.84	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	54338772.46	1340577.72	5958.4	False	13C3-PFHxS	42889.84	1182.50	PFHxS	0.310	0.359	✓
PFOA_1	413.0 / 369.0	2.27	117194564.48	390420.07	1591.8	False	13C8-PFOA	422852.13	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	12630203.86	438476.31	3947.5	False	13C8-PFOA	422852.13	1222.50	PFOA	0.108	0.093	✓
PFNA_1	463.0 / 419.0	2.64	41666444.15	543854.55	1942.8	False	13C9-PFNA	114703.72	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	13008788.95	494923.09	1840.2	False	13C9-PFNA	114703.72	1250.00	PFNA	0.312	0.338	✓
PFOS_1	499.0 / 80.0	2.59	517088822.63	7765220.09	3084.5	False	13C8-PFOS	21061.89	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	97827402.02	7597882.25	4308.6	False	13C8-PFOS	21061.89	1195.00	PFOS	0.189	0.203	✓
PFDA_1	513.0 / 469.0	2.99	9065589.19	16221.05	1147.3	False	13C6-PFDA	726476.83	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.99	685517.83	19959.57	1226.0	False	13C6-PFDA	726476.83	1250.00	PFDA	0.076	0.059	✓
PFUnA_1	563.0 / 519.0	3.31	29211046.46	40850.59	2440.0	False	13C7-PFUnA	825038.09	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	1858212.27	38198.97	2562.8	False	13C7-PFUnA	825038.09	1250.00	PFUnA	0.064	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1156145.79	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1156145.79	1250.00	PFDoA	N/A	0.117	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1153359.13	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1153359.13	1250.00	PFTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1153359.13	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1153359.13	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	129744.07	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	129744.07	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	113232.26	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	113232.26	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	401643.00	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	401643.00	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	42889.84	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	42889.84	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1156145.79	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1156145.79	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1156145.79	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1156145.79	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1768-FS-D(5)	Injection Vial	41
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:55:45 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	293838.69	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	293838.69	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	27891498.60	25525.58	2366.0	False	13C5-PFHxA	1146377.30	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	1718200.25	25263.48	2146.9	False	13C5-PFHxA	1146377.30	1250.00	PFHxA	0.062	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	15329442.96	24689.90	1280.2	False	13C4-PFHpA	866840.05	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	536585.15	28366.75	1687.8	False	13C4-PFHpA	866840.05	1250.00	PFHpA	0.035	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	47457388.92	105046.25	4619.8	False	13C3-PFHxS	174246.95	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	15956343.06	96814.26	4617.1	False	13C3-PFHxS	174246.95	1182.50	PFHxS	0.336	0.359	✓
PFOA_1	413.0 / 369.0	2.27	25902407.50	25236.11	1555.3	False	13C8-PFOA	1442415.76	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	2935478.94	29840.21	2202.9	True	13C8-PFOA	1442415.76	1222.50	PFOA	0.113	0.093	✓
PFNA_1	463.0 / 419.0	2.64	15825930.17	36974.80	1726.0	False	13C9-PFNA	639629.52	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	5281316.62	35975.13	2197.5	False	13C9-PFNA	639629.52	1250.00	PFNA	0.334	0.338	✓
PFOS_1	499.0 / 80.0	2.63	163600530.09	580920.51	3041.3	False	13C8-PFOS	89071.98	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	33429478.82	613873.32	3938.0	False	13C8-PFOS	89071.98	1195.00	PFOS	0.204	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1187268.01	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1187268.01	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	3.31	3190306.56	3235.54	1439.1	False	13C7-PFUnA	1116715.13	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.31	188859.05	2898.49	1618.6	False	13C7-PFUnA	1116715.13	1250.00	PFUnA	0.059	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1359778.85	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1359778.85	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1255150.16	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1255150.16	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1255150.16	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1255150.16	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	178192.23	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	178192.23	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	175571.30	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	175571.30	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	411795.16	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	411795.16	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	174246.95	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	174246.95	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1359778.85	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1359778.85	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1359778.85	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1359778.85	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1768-FS-D(7)	Injection Vial	42
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:06:13 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	268698.28	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	268698.28	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	11988085.79	10532.10	1639.7	False	13C5-PFHxA	1189363.65	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	705653.89	9960.40	1448.2	False	13C5-PFHxA	1189363.65	1250.00	PFHxA	0.059	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1038866.51	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1038866.51	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	22444531.32	42560.79	4350.7	False	13C3-PFHxS	203102.93	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	7853492.91	40829.90	5459.7	False	13C3-PFHxS	203102.93	1182.50	PFHxS	0.350	0.359	✓
PFOA_1	413.0 / 369.0	2.26	12285944.34	11528.72	1321.7	False	13C8-PFOA	1493073.51	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	1341698.23	13155.05	1942.7	False	13C8-PFOA	1493073.51	1222.50	PFOA	0.109	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	817140.45	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	817140.45	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.62	87699224.23	207781.89	3167.9	False	13C8-PFOS	133486.17	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	18486545.87	226483.74	4130.6	False	13C8-PFOS	133486.17	1195.00	PFOS	0.211	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1179458.85	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1179458.85	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1144890.34	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1144890.34	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1388659.60	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1388659.60	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1191168.89	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1191168.89	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1191168.89	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1191168.89	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	178566.32	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	178566.32	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	170422.37	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	170422.37	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	380103.80	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	380103.80	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	203102.93	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	203102.93	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1388659.60	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1388659.60	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1388659.60	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1388659.60	1250.00	11Cl-PF3OUdS	N/A	0.005	✓



Sample Name	G1768-FS-D(9)	Injection Vial	43
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:16:41 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	275082.17	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	275082.17	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1230334.41	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1230334.41	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1182511.14	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1182511.14	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	9775186.93	17358.02	3026.1	False	13C3-PFHxS	216129.87	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	3495201.04	17025.00	3233.6	False	13C3-PFHxS	216129.87	1182.50	PFHxS	0.358	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1567005.23	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1567005.23	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1086971.32	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1086971.32	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.64	45060817.14	82173.72	2524.8	False	13C8-PFOS	173402.40	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	9586979.62	90379.66	2510.3	False	13C8-PFOS	173402.40	1195.00	PFOS	0.213	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1243801.35	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1243801.35	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1105695.17	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1105695.17	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1323777.58	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1323777.58	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1230644.02	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1230644.02	1250.00	PFTTrDA	N/A	0.070	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1230644.02	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1230644.02	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	158830.36	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	158830.36	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	173974.16	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	173974.16	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	400103.63	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	400103.63	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	216129.87	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	216129.87	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1323777.58	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1323777.58	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1323777.58	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1323777.58	1250.00	11Cl-pf3OUdS	N/A	0.005	✓



PFAS Sample Quant Report

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Printed: 17/11/2020 1:36:27 PM

Sample Name	G1773-FS(0)	Injection Vial	45
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:37:38 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	4295367.74	15810.75	1176.3	False	13C3-PFBS	134476.27	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	1336213.04	14439.80	1382.5	False	13C3-PFBS	134476.27	1162.50	PFBS	0.311	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	54048496.27	190816.68	828.5	False	13C5-PFHxA	297898.23	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	2847747.45	161489.01	786.7	False	13C5-PFHxA	297898.23	1250.00	PFHxA	0.053	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	18437359.76	123701.09	611.8	False	13C4-PFHpA	208498.06	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	769480.74	169405.01	1234.5	False	13C4-PFHpA	208498.06	1250.00	PFHpA	0.042	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	118997758.64	875125.17	3313.8	False	13C3-PFHxS	52491.20	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	37696393.31	759850.60	3202.6	False	13C3-PFHxS	52491.20	1182.50	PFHxS	0.317	0.359	✓
PFOA_1	413.0 / 369.0	2.26	101896462.77	347315.12	1232.0	False	13C8-PFOA	413275.51	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	11317730.10	402013.44	1937.4	False	13C8-PFOA	413275.51	1222.50	PFOA	0.111	0.093	✓
PFNA_1	463.0 / 419.0	2.62	32905142.06	186631.51	1277.8	False	13C9-PFNA	263900.14	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	10948264.44	181004.83	1578.0	False	13C9-PFNA	263900.14	1250.00	PFNA	0.333	0.338	✓
PFOS_1	499.0 / 80.0	2.56	242650085.77	1597495.96	2349.3	False	13C8-PFOS	48042.17	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	42596703.28	1450334.47	3917.4	False	13C8-PFOS	48042.17	1195.00	PFOS	0.176	0.203	✓
PFDA_1	513.0 / 469.0	2.97	1362673.54	2093.97	560.7	False	13C6-PFDA	832955.15	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.96	116158.61	2955.27	399.6	False	13C6-PFDA	832955.15	1250.00	PFDA	0.085	0.059	✓
PFUnA_1	563.0 / 519.0	3.28	4902142.08	7857.97	1497.6	False	13C7-PFUnA	714939.41	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.28	285779.72	6806.26	1348.8	False	13C7-PFUnA	714939.41	1250.00	PFUnA	0.058	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	781456.10	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	781456.10	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.80	4812.27	< 0	59.7	False	13C2-PFTTeDA	336704.09	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.79	539.97	< 0	22.5	True	13C2-PFTTeDA	336704.09	1250.00	PFTTrDA	0.112	0.070	
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	336704.09	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	336704.09	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.10	5836.34	112.56	365.3	False	d3-MeFOSAA	119848.18	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.05	3187.82	12.52	42.5	False	d3-MeFOSAA	119848.18	1250.00	NMeFOSAA	0.546	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	101661.23	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	101661.23	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	25726.24	1.01	87.1	False	13C3-HFPO-DA	272046.87	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	540.50	< 0	17.5	False	13C3-HFPO-DA	272046.87	1250.00	HFPO-DA	0.021	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	52491.20	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	52491.20	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	781456.10	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	781456.10	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	781456.10	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	781456.10	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1773-FS-D(3)	Injection Vial	46
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:48:07 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	222743.20	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	222743.20	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	22145530.64	32434.82	855.8	False	13C5-PFHxA	716751.44	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	1325714.70	31192.14	948.9	False	13C5-PFHxA	716751.44	1250.00	PFHxA	0.060	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	9943573.31	21009.78	766.3	False	13C4-PFHpA	660492.81	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	364991.94	25317.50	1078.6	False	13C4-PFHpA	660492.81	1250.00	PFHpA	0.037	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	52790506.52	150357.65	2111.1	False	13C3-PFHxS	135456.83	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	17870783.29	139519.33	2682.7	False	13C3-PFHxS	135456.83	1182.50	PFHxS	0.339	0.359	✓
PFOA_1	413.0 / 369.0	2.25	41833015.96	61057.58	1298.4	False	13C8-PFOA	964283.20	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	4413863.67	67163.34	1747.9	True	13C8-PFOA	964283.20	1222.50	PFOA	0.106	0.093	✓
PFNA_1	463.0 / 419.0	2.62	15068223.66	32186.82	1440.2	False	13C9-PFNA	699391.22	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	5405671.50	33671.87	1983.1	False	13C9-PFNA	699391.22	1250.00	PFNA	0.359	0.338	✓
PFOS_1	499.0 / 80.0	2.59	89418833.81	222052.53	2546.1	False	13C8-PFOS	127357.35	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	16555807.75	212586.84	2775.2	False	13C8-PFOS	127357.35	1195.00	PFOS	0.185	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1103643.50	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1103643.50	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	930122.49	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	930122.49	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1192061.34	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1192061.34	1250.00	PFDoA	N/A	0.117	✓
PFTeDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	987797.14	1250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	987797.14	1250.00	PFTeDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	987797.14	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	987797.14	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	145451.28	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	145451.28	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	142198.22	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	142198.22	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	311341.93	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	311341.93	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	135456.83	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	135456.83	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1192061.34	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1192061.34	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1192061.34	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1192061.34	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1773-FS-D(5)	Injection Vial	47
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:58:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	255016.73	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	255016.73	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	952255.55	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	952255.55	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	923141.60	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	923141.60	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	26414675.23	55608.31	2324.8	False	13C3-PFHxS	183049.26	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	9131677.42	52701.66	2988.5	False	13C3-PFHxS	183049.26	1182.50	PFHxS	0.346	0.359	✓
PFOA_1	413.0 / 369.0	2.26	19122039.53	20991.33	1175.3	False	13C8-PFOA	1279505.82	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	2120867.83	24297.40	1414.0	True	13C8-PFOA	1279505.82	1222.50	PFOA	0.111	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1012552.60	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1012552.60	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.60	44535757.84	84199.21	2109.2	False	13C8-PFOS	167260.04	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	8753124.76	85545.79	2597.9	False	13C8-PFOS	167260.04	1195.00	PFOS	0.197	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1170015.16	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1170015.16	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1061851.75	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1061851.75	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1283812.84	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1283812.84	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1096165.42	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1096165.42	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1096165.42	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1096165.42	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	149099.53	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	149099.53	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	156702.43	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	156702.43	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	333524.77	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	333524.77	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	183049.26	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	183049.26	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1283812.84	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1283812.84	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1283812.84	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1283812.84	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1774-FS(0)	Injection Vial	50
Sample ID	CBD-AOA-EB01-101920-GW	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:30:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	7522.22	< 0	160.1	True	13C3-PFBS	333420.18	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.31	3420.18	< 0	57.4	True	13C3-PFBS	333420.18	1162.50	PFBS	0.455	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1070164.87	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1070164.87	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1175802.40	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1175802.40	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	10470.45	< 0	40.9	False	13C3-PFHxS	214347.73	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.88	3503.86	< 0	29.5	False	13C3-PFHxS	214347.73	1182.50	PFHxS	0.335	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1466449.13	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1466449.13	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1310462.36	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1310462.36	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.61	80137.30	114.40	168.2	True	13C8-PFOS	190656.85	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	20853.80	118.81	191.0	False	13C8-PFOS	190656.85	1195.00	PFOS	0.260	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1319781.33	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1319781.33	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	3.29	10352.72	< 0	49.1	False	13C7-PFUnA	1096085.53	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.29	644.15	42.59	11.9	False	13C7-PFUnA	1096085.53	1250.00	PFUnA	0.062	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1413925.58	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1413925.58	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.85	5168.01	< 0	50.4	False	13C2-PFTeDA	1278994.33	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.83	226.43	< 0	18.1	True	13C2-PFTeDA	1278994.33	1250.00	PFTTrDA	0.044	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1278994.33	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1278994.33	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	188284.93	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	188284.93	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	165811.40	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	165811.40	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	405164.57	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	405164.57	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	214347.73	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	214347.73	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1413925.58	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1413925.58	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1413925.58	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1413925.58	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1775-FS(0)	Injection Vial	51
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:40:29 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	853922.76	2063.14	1491.9	False	13C3-PFBS	194696.59	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	251579.13	1791.02	1207.3	False	13C3-PFBS	194696.59	1162.50	PFBS	0.295	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	6559459.17	10780.99	808.7	False	13C5-PFHxA	635854.39	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	374711.71	9892.80	767.4	False	13C5-PFHxA	635854.39	1250.00	PFHxA	0.057	0.062	✓
PFHpA_1	363.0 / 319.0	1.90	1836659.51	3987.41	321.7	False	13C4-PFHpA	635079.04	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.90	64198.66	4585.06	507.2	False	13C4-PFHpA	635079.04	1250.00	PFHpA	0.035	0.030	✓
PFHxS_1	399.0 / 80.0	1.92	39314823.14	96883.79	2033.0	False	13C3-PFHxS	156498.84	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.92	13035313.22	88052.63	2602.7	False	13C3-PFHxS	156498.84	1182.50	PFHxS	0.332	0.359	✓
PFOA_1	413.0 / 369.0	2.27	12163760.13	16396.39	720.7	False	13C8-PFOA	1041103.01	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.27	1244750.76	17515.26	1371.9	True	13C8-PFOA	1041103.01	1222.50	PFOA	0.102	0.093	✓
PFNA_1	463.0 / 419.0	2.64	8194998.08	18610.23	1292.6	False	13C9-PFNA	656761.43	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	2797133.55	18526.56	1576.0	False	13C9-PFNA	656761.43	1250.00	PFNA	0.341	0.338	✓
PFOS_1	499.0 / 80.0	2.57	127799203.29	364405.21	1797.0	False	13C8-PFOS	110919.64	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	23061817.37	340048.69	2903.7	False	13C8-PFOS	110919.64	1195.00	PFOS	0.180	0.203	✓
PFDA_1	513.0 / 469.0	2.99	185958.19	194.80	219.3	False	13C6-PFDA	1043010.12	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	15283.30	316.33	253.0	False	13C6-PFDA	1043010.12	1250.00	PFDA	0.082	0.059	✓
PFUnA_1	563.0 / 519.0	3.30	673710.19	812.65	604.0	False	13C7-PFUnA	886101.47	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.30	33216.46	667.86	691.8	False	13C7-PFUnA	886101.47	1250.00	PFUnA	0.049	0.061	✓
PFDoA_1	613.0 / 569.0	3.59	19470.76	< 0	65.7	False	13C2-PFDoA	1198955.64	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.59	1729.75	< 0	103.8	False	13C2-PFDoA	1198955.64	1250.00	PFDoA	0.089	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.83	70253.07	< 0	585.2	False	13C2-PFTeDA	1062715.56	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.83	4471.31	39.63	120.7	True	13C2-PFTeDA	1062715.56	1250.00	PFTTrDA	0.064	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1062715.56	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1062715.56	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	163431.95	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	163431.95	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	155485.86	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	155485.86	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.67	5920.48	< 0	83.2	False	13C3-HFPO-DA	296013.77	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	296013.77	1250.00	HFPO-DA	N/A	0.023	
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	156498.84	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	156498.84	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1198955.64	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1198955.64	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1198955.64	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1198955.64	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1775-FS-D(3)	Injection Vial	52
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:50:57 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	251796.91	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	251796.91	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1046186.91	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1046186.91	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1116950.60	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1116950.60	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	10871678.56	21639.83	1812.6	False	13C3-PFHxS	193037.52	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	3656819.89	19958.11	2105.6	False	13C3-PFHxS	193037.52	1182.50	PFHxS	0.336	0.359	✓
PFOA_1	413.0 / 369.0	2.26	3036722.22	3140.55	567.9	False	13C8-PFOA	1334826.76	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	293463.50	3189.99	880.0	True	13C8-PFOA	1334826.76	1222.50	PFOA	0.097	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1132518.93	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1132518.93	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.58	35963690.02	66438.88	1966.9	False	13C8-PFOS	171162.16	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	6931935.98	66188.92	2556.8	False	13C8-PFOS	171162.16	1195.00	PFOS	0.193	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1230114.50	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1230114.50	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1075144.68	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1075144.68	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1321264.30	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1321264.30	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1181762.59	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1181762.59	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1181762.59	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1181762.59	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	172546.65	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	172546.65	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	169442.83	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	169442.83	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	310833.56	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	310833.56	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	193037.52	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	193037.52	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1321264.30	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1321264.30	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1321264.30	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1321264.30	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1769-FS(0)	Injection Vial	2
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:32:48 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	27199026.56	126773.60	3519.6	False	13C3-PFBS	106933.78	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	9136379.02	124920.32	3609.0	False	13C3-PFBS	106933.78	1162.50	PFBS	0.336	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	147605930.10	734895.50	2154.6	False	13C5-PFHxA	211300.86	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	7449584.60	595758.81	1935.7	False	13C5-PFHxA	211300.86	1250.00	PFHxA	0.050	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	27214202.45	252618.58	673.5	False	13C4-PFHpA	150735.23	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.88	923243.08	281183.26	801.5	True	13C4-PFHpA	150735.23	1250.00	PFHpA	0.034	0.030	✓
PFHxS_1	399.0 / 80.0	1.90	205204981.27	2450631.29	2663.1	False	13C3-PFHxS	32326.66	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	65109100.20	2131219.16	5275.8	False	13C3-PFHxS	32326.66	1182.50	PFHxS	0.317	0.359	✓
PFOA_1	413.0 / 369.0	2.26	216484971.43	1438217.31	1614.8	False	13C8-PFOA	212064.94	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	20831314.79	1442108.97	5109.0	False	13C8-PFOA	212064.94	1222.50	PFOA	0.096	0.093	✓
PFNA_1	463.0 / 419.0	2.62	68775046.05	672560.52	2100.6	False	13C9-PFNA	153103.33	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	23048882.44	656987.21	2429.8	False	13C9-PFNA	153103.33	1250.00	PFNA	0.335	0.338	✓
PFOS_1	499.0 / 80.0	2.55	372861156.84	5570243.76	2531.7	False	13C8-PFOS	21171.83	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	68645478.02	5303729.10	5341.3	False	13C8-PFOS	21171.83	1195.00	PFOS	0.184	0.203	✓
PFDA_1	513.0 / 469.0	2.97	5703033.00	8742.73	923.4	False	13C6-PFDA	846267.93	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.97	443227.25	11081.18	927.6	False	13C6-PFDA	846267.93	1250.00	PFDA	0.078	0.059	✓
PFUnA_1	563.0 / 519.0	3.28	718366.70	907.77	372.3	True	13C7-PFUnA	852538.01	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.29	36018.23	748.55	445.4	False	13C7-PFUnA	852538.01	1250.00	PFUnA	0.050	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1087387.52	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1087387.52	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.82	26985.39	< 0	307.9	True	13C2-PFTeDA	939041.36	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.82	2040.60	< 0	42.4	True	13C2-PFTeDA	939041.36	1250.00	PFTTrDA	0.076	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	939041.36	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	939041.36	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.07	1330.21	54.79	5402.1	True	d3-MeFOSAA	122892.28	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	122892.28	1250.00	NMeFOSAA	N/A	1.078	
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	123740.24	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	123740.24	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	59470.38	48.54	283.8	False	13C3-HFPO-DA	322998.80	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.65	1401.66	6.28	94.3	False	13C3-HFPO-DA	322998.80	1250.00	HFPO-DA	0.024	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	32326.66	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	32326.66	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1087387.52	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1087387.52	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1087387.52	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1087387.52	1250.00	11Cl-pf3OUdS	N/A	0.005	✓



Sample Name	G1769-FS-D(3)	Injection Vial	3
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:43:16 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	11634884.57	26043.21	5028.5	False	13C3-PFBS	221822.82	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	3937374.04	25873.19	4620.8	False	13C3-PFBS	221822.82	1162.50	PFBS	0.338	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	76117729.42	130319.76	2354.8	False	13C5-PFHxA	614185.31	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	4192143.18	115285.45	2559.5	False	13C5-PFHxA	614185.31	1250.00	PFHxA	0.055	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	16089975.15	45817.75	1015.7	False	13C4-PFHpA	490840.10	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	522080.54	48783.10	732.6	True	13C4-PFHpA	490840.10	1250.00	PFHpA	0.032	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	110950715.00	449590.17	5563.6	False	13C3-PFHxS	95253.86	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	36006077.59	399910.60	6445.4	False	13C3-PFHxS	95253.86	1182.50	PFHxS	0.325	0.359	✓
PFOA_1	413.0 / 369.0	2.26	121748317.07	262066.45	1825.3	False	13C8-PFOA	654379.18	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	11188734.14	250985.07	3115.7	False	13C8-PFOA	654379.18	1222.50	PFOA	0.092	0.093	✓
PFNA_1	463.0 / 419.0	2.63	39215038.57	142136.46	2002.8	False	13C9-PFNA	412908.79	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	12502149.19	132087.06	1979.2	False	13C9-PFNA	412908.79	1250.00	PFNA	0.319	0.338	✓
PFOS_1	499.0 / 80.0	2.57	181853857.81	778111.86	2820.8	False	13C8-PFOS	73919.18	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	34274967.50	758434.91	4733.2	False	13C8-PFOS	73919.18	1195.00	PFOS	0.188	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1060838.90	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1060838.90	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	966933.75	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	966933.75	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1183786.15	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1183786.15	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1086126.02	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1086126.02	1250.00	PFTTrDA	N/A	0.070	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1086126.02	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1086126.02	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	147668.16	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	147668.16	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	151940.33	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	151940.33	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	387911.48	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	387911.48	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	95253.86	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	95253.86	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1183786.15	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1183786.15	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1183786.15	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1183786.15	1250.00	11Cl-PF3OUdS	N/A	0.005	✓



Sample Name	G1769-FS-D(7)	Injection Vial	5
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:04:16 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	294153.09	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	294153.09	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.55	20383908.04	19010.93	2356.7	False	13C5-PFHxA	1123810.66	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.56	1165799.93	17465.03	2761.6	False	13C5-PFHxA	1123810.66	1250.00	PFHxA	0.057	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1051720.48	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1051720.48	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.89	32928258.06	65739.54	5328.4	False	13C3-PFHxS	193076.20	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.89	11023320.55	60327.71	5260.8	False	13C3-PFHxS	193076.20	1182.50	PFHxS	0.335	0.359	✓
PFOA_1	413.0 / 369.0	2.23	36494803.66	39704.14	1716.8	False	13C8-PFOA	1292924.08	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.23	3513758.88	39861.17	3634.7	False	13C8-PFOA	1292924.08	1222.50	PFOA	0.096	0.093	✓
PFNA_1	463.0 / 419.0	2.60	13942292.03	20198.67	1688.4	False	13C9-PFNA	1029809.93	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.60	4822824.35	20378.14	3685.7	False	13C9-PFNA	1029809.93	1250.00	PFNA	0.346	0.338	✓
PFOS_1	499.0 / 80.0	2.58	51970660.53	101535.52	3241.7	False	13C8-PFOS	161863.12	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.59	10534428.81	106402.20	2881.1	False	13C8-PFOS	161863.12	1195.00	PFOS	0.203	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1215333.85	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1215333.85	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1120595.44	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1120595.44	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1328098.25	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1328098.25	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1253183.10	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1253183.10	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1253183.10	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1253183.10	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	181380.58	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	181380.58	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	186539.49	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	186539.49	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	394218.87	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	394218.87	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	193076.20	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	193076.20	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1328098.25	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1328098.25	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1328098.25	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1328098.25	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1769-FS-D(9)	Injection Vial	6
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:14:44 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	278858.12	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	278858.12	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1172206.17	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1172206.17	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1155184.87	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1155184.87	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	14382177.49	25899.44	4226.2	False	13C3-PFHxS	213536.98	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	5094764.99	25159.52	5145.7	False	13C3-PFHxS	213536.98	1182.50	PFHxS	0.354	0.359	✓
PFOA_1	413.0 / 369.0	2.26	16433718.78	15394.02	1417.6	False	13C8-PFOA	1497776.04	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	1495258.03	14618.83	2650.7	False	13C8-PFOA	1497776.04	1222.50	PFOA	0.091	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1257158.74	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1257158.74	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.61	24235795.35	40283.87	2431.3	False	13C8-PFOS	190201.16	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	5338679.07	45854.76	2677.3	False	13C8-PFOS	190201.16	1195.00	PFOS	0.220	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1276461.02	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1276461.02	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1211474.18	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1211474.18	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1398087.19	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1398087.19	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1238701.88	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1238701.88	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1238701.88	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1238701.88	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	187894.93	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	187894.93	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	182751.23	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	182751.23	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	410013.26	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	410013.26	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	213536.98	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	213536.98	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1398087.19	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1398087.19	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1398087.19	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1398087.19	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1769-FS-D(11)	Injection Vial	7
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:25:14 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	275794.79	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	275794.79	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1269217.48	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1269217.48	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1168645.22	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1168645.22	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.89	5955441.19	10236.44	3369.9	False	13C3-PFHxS	222366.58	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.89	2035936.38	9600.72	3477.4	False	13C3-PFHxS	222366.58	1182.50	PFHxS	0.342	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1549308.98	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1549308.98	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1283726.84	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1283726.84	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.59	10406569.56	17747.77	1857.5	False	13C8-PFOS	185266.64	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.60	2153200.13	18951.54	2450.9	False	13C8-PFOS	185266.64	1195.00	PFOS	0.207	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1279389.92	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1279389.92	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1217597.78	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1217597.78	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412096.55	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412096.55	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1228848.95	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1228848.95	1250.00	PFTTrDA	N/A	0.070	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1228848.95	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1228848.95	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	181111.90	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	181111.90	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	181424.74	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	181424.74	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	402705.53	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	402705.53	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	222366.58	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	222366.58	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412096.55	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412096.55	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412096.55	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412096.55	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1770MS-FS(0)	Injection Vial	10
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:56:39 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	31298473.57	174067.99	3235.2	False	13C3-PFBS	89641.86	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	10664600.82	173982.40	3473.4	False	13C3-PFBS	89641.86	1162.50	PFBS	0.341	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	154461026.68	814789.41	2008.0	False	13C5-PFHxA	199434.74	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	7678986.42	650649.15	1728.7	False	13C5-PFHxA	199434.74	1250.00	PFHxA	0.050	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	28132471.24	305669.11	724.5	False	13C4-PFHpA	128783.05	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.88	1065676.76	379907.33	1104.6	True	13C4-PFHpA	128783.05	1250.00	PFHpA	0.038	0.030	✓
PFHxS_1	399.0 / 80.0	1.89	210173508.69	2903950.64	2884.3	False	13C3-PFHxS	27941.03	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	67250696.88	2546856.33	4690.5	False	13C3-PFHxS	27941.03	1182.50	PFHxS	0.320	0.359	✓
PFOA_1	413.0 / 369.0	2.26	217076094.53	1763610.53	1489.2	False	13C8-PFOA	173411.77	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	21600402.83	1828672.63	3429.7	False	13C8-PFOA	173411.77	1222.50	PFOA	0.100	0.093	✓
PFNA_1	463.0 / 419.0	2.62	73371399.95	1066133.38	2355.6	False	13C9-PFNA	103042.88	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	23019539.41	974952.81	2208.6	False	13C9-PFNA	103042.88	1250.00	PFNA	0.314	0.338	✓
PFOS_1	499.0 / 80.0	2.55	417093907.27	8346835.21	2521.8	False	13C8-PFOS	15805.13	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	76462071.72	7913662.76	4951.6	False	13C8-PFOS	15805.13	1195.00	PFOS	0.183	0.203	✓
PFDA_1	513.0 / 469.0	2.96	11931985.38	22301.18	1176.2	True	13C6-PFDA	695925.54	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.97	973664.75	29590.67	1525.2	False	13C6-PFDA	695925.54	1250.00	PFDA	0.082	0.059	✓
PFUnA_1	563.0 / 519.0	3.28	9806582.38	15234.38	1744.4	False	13C7-PFUnA	740698.88	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.28	596423.27	13677.58	1804.6	False	13C7-PFUnA	740698.88	1250.00	PFUnA	0.061	0.061	✓
PFDoA_1	613.0 / 569.0	3.56	9807399.38	12230.01	2055.2	False	13C2-PFDoA	1071475.19	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.56	1225882.79	12578.43	3225.0	False	13C2-PFDoA	1071475.19	1250.00	PFDoA	0.125	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.81	8634494.93	12541.61	3136.0	False	13C2-PFTeDA	1028433.40	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.81	665894.47	12874.88	3111.4	False	13C2-PFTeDA	1028433.40	1250.00	PFTTrDA	0.077	0.070	✓
PFTeDA_1	713.0 / 669.0	4.04	9968514.90	12025.91	4687.9	False	13C2-PFTeDA	1028433.40	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.04	605187.00	12578.47	4916.0	False	13C2-PFTeDA	1028433.40	1250.00	PFTeDA	0.061	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.11	999519.85	11633.08	2331.0	False	d3-MeFOSAA	131486.17	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.11	994918.91	11626.60	1690.0	False	d3-MeFOSAA	131486.17	1250.00	NMeFOSAA	0.995	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.27	980502.95	10589.93	1851.3	False	d5-EtFOSAA	112855.09	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.27	53170.52	10142.08	1159.7	False	d5-EtFOSAA	112855.09	1250.00	NEtFOSAA	0.054	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.66	4355680.30	9196.30	2291.0	False	13C3-HFPO-DA	272816.14	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	108031.14	10430.47	1272.3	False	13C3-HFPO-DA	272816.14	1250.00	HFPO-DA	0.025	0.023	✓
ADONA_1	377.0 / 251.0	1.93	4504950.13	17727.41	2265.5	True	13C3-PFHxS	27941.03	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	84573.98	21390.49	481.3	False	13C3-PFHxS	27941.03	1182.50	ADONA	0.019	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.82	8797520.98	8893.91	2790.2	False	13C2-PFDoA	1071475.19	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.82	99437.74	9817.04	768.4	False	13C2-PFDoA	1071475.19	1250.00	9CI-PF3ONS	0.011	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.43	7519379.98	10936.93	5726.4	False	13C2-PFDoA	1071475.19	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.43	41201.59	11458.52	867.1	False	13C2-PFDoA	1071475.19	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

Sample Name	G1770MS-FS-D(3)	Injection Vial	11
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:07:07 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	14379255.69	33260.82	5205.8	False	13C3-PFBS	214878.29	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	4863546.25	33019.55	4154.0	False	13C3-PFBS	214878.29	1162.50	PFBS	0.338	0.333	✓
PFHxA_1	313.0 / 269.0	1.56	87075545.26	163033.71	2087.6	False	13C5-PFHxA	561682.95	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	4839724.48	145552.36	2339.6	False	13C5-PFHxA	561682.95	1250.00	PFHxA	0.056	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	17883129.28	52216.20	1042.5	False	13C4-PFHpA	478769.40	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.88	633809.47	60730.01	744.2	True	13C4-PFHpA	478769.40	1250.00	PFHpA	0.035	0.030	✓
PFHxS_1	399.0 / 80.0	1.90	117617164.94	592055.49	4913.1	False	13C3-PFHxS	76683.45	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	39190837.23	540726.25	5296.6	False	13C3-PFHxS	76683.45	1182.50	PFHxS	0.333	0.359	✓
PFOA_1	413.0 / 369.0	2.26	141537337.65	313052.99	1802.9	False	13C8-PFOA	636866.74	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	13068763.84	301226.54	3089.0	False	13C8-PFOA	636866.74	1222.50	PFOA	0.092	0.093	✓
PFNA_1	463.0 / 419.0	2.63	43233692.89	170609.18	2459.2	False	13C9-PFNA	379284.06	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	14389282.61	165517.99	2510.6	False	13C9-PFNA	379284.06	1250.00	PFNA	0.333	0.338	✓
PFOS_1	499.0 / 80.0	2.57	221828605.99	1130157.10	2314.2	False	13C8-PFOS	62080.98	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	40640162.94	1070792.38	4897.8	False	13C8-PFOS	62080.98	1195.00	PFOS	0.183	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1002908.70	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1002908.70	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	998811.03	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	998811.03	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1229098.94	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1229098.94	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1198821.21	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1198821.21	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1198821.21	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1198821.21	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	157831.71	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	157831.71	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	145978.29	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	145978.29	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	418532.60	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	418532.60	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	76683.45	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	76683.45	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1229098.94	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1229098.94	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1229098.94	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1229098.94	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1770MS-FS-D(7)	Injection Vial	13
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:28:05 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	3260925.01	5438.02	5234.2	False	13C3-PFBS	292447.20	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	1066444.74	5236.21	3789.2	False	13C3-PFBS	292447.20	1162.50	PFBS	0.327	0.333	✓
PFHxA_1	313.0 / 269.0	1.56	23848089.59	23962.53	2496.1	False	13C5-PFHxA	1043931.10	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.56	1348421.93	21762.94	2528.5	False	13C5-PFHxA	1043931.10	1250.00	PFHxA	0.057	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	983506.15	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	983506.15	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.89	36879930.19	76655.04	4696.9	False	13C3-PFHxS	185495.38	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	12490040.74	71163.95	4393.5	False	13C3-PFHxS	185495.38	1182.50	PFHxS	0.339	0.359	✓
PFOA_1	413.0 / 369.0	2.24	43194355.51	47452.92	1982.3	False	13C8-PFOA	1280729.00	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.23	4126139.96	47260.91	3600.8	False	13C8-PFOA	1280729.00	1222.50	PFOA	0.096	0.093	✓
PFNA_1	463.0 / 419.0	2.60	16233067.91	25724.53	1975.1	False	13C9-PFNA	942192.04	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.60	5472257.22	25287.26	2676.9	False	13C9-PFNA	942192.04	1250.00	PFNA	0.337	0.338	✓
PFOS_1	499.0 / 80.0	2.57	68284054.67	151189.37	3643.9	False	13C8-PFOS	142834.05	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.59	13465504.84	154153.84	3341.8	False	13C8-PFOS	142834.05	1195.00	PFOS	0.197	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1224896.59	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1224896.59	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1109936.39	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1109936.39	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412925.90	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412925.90	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1157034.13	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1157034.13	1250.00	PFTTrDA	N/A	0.070	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1157034.13	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1157034.13	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	165530.34	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	165530.34	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	164851.47	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	164851.47	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	407130.86	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	407130.86	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	185495.38	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	185495.38	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412925.90	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412925.90	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412925.90	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1412925.90	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1770MS-FS-D(9)	Injection Vial	14
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:38:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	272386.11	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	272386.11	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1207382.55	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1207382.55	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1073721.03	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1073721.03	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	16242748.74	28867.73	4177.1	False	13C3-PFHxS	216452.81	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	5662033.21	27592.67	3787.6	False	13C3-PFHxS	216452.81	1182.50	PFHxS	0.349	0.359	✓
PFOA_1	413.0 / 369.0	2.26	18276851.10	17960.89	1684.7	False	13C8-PFOA	1428553.32	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	1803660.38	18498.47	3502.4	False	13C8-PFOA	1428553.32	1222.50	PFOA	0.099	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1174637.60	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1174637.60	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.62	32966961.76	58000.05	2749.8	False	13C8-PFOS	179720.97	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	6275267.65	57057.00	3092.5	False	13C8-PFOS	179720.97	1195.00	PFOS	0.190	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1194771.24	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1194771.24	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1134680.97	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1134680.97	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1368458.51	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1368458.51	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1223704.71	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1223704.71	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1223704.71	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1223704.71	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	169011.40	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	169011.40	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	162812.48	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	162812.48	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	424842.66	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	424842.66	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	216452.81	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	216452.81	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1368458.51	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1368458.51	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1368458.51	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1368458.51	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1770MS-FS-D(11)	Injection Vial	15
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:49:03 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	293744.93	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	293744.93	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1253294.37	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1253294.37	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1175434.78	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1175434.78	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	6905061.99	11174.15	3352.2	False	13C3-PFHxS	236386.13	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	2405257.82	10679.40	4087.8	False	13C3-PFHxS	236386.13	1182.50	PFHxS	0.348	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1617788.47	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1617788.47	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1393021.43	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1393021.43	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.63	13936017.43	20866.97	2087.9	False	13C8-PFOS	211047.67	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	2841672.88	21965.41	2248.3	False	13C8-PFOS	211047.67	1195.00	PFOS	0.204	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1407612.35	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1407612.35	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1205038.51	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1205038.51	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1411144.08	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1411144.08	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1275719.98	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1275719.98	1250.00	PFTTrDA	N/A	0.070	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1275719.98	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1275719.98	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	191895.38	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	191895.38	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	185707.96	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	185707.96	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	424329.26	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	424329.26	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	236386.13	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	236386.13	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1411144.08	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1411144.08	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1411144.08	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1411144.08	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1771MSD-FS(0)	Injection Vial	18
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:21:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	30065636.02	154920.62	2988.3	False	13C3-PFBS	96745.17	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	10223450.37	154528.47	3072.7	False	13C3-PFBS	96745.17	1162.50	PFBS	0.340	0.333	✓
PFHxA_1	313.0 / 269.0	1.56	147057215.84	723768.95	1605.9	False	13C5-PFHxA	213751.31	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	7342316.72	580447.22	1504.0	False	13C5-PFHxA	213751.31	1250.00	PFHxA	0.050	0.062	✓
PFHpA_1	363.0 / 319.0	1.87	28840485.93	280904.99	781.1	False	13C4-PFHpA	143660.70	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.86	1070949.79	342243.26	1091.4	True	13C4-PFHpA	143660.70	1250.00	PFHpA	0.037	0.030	✓
PFHxS_1	399.0 / 80.0	1.88	210937196.71	2495891.90	2945.2	False	13C3-PFHxS	32627.11	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.89	65754090.49	2132511.58	4977.5	False	13C3-PFHxS	32627.11	1182.50	PFHxS	0.312	0.359	✓
PFOA_1	413.0 / 369.0	2.23	214765767.36	1681189.88	1481.6	False	13C8-PFOA	179976.89	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.22	21514860.67	1754987.73	3446.1	False	13C8-PFOA	179976.89	1222.50	PFOA	0.100	0.093	✓
PFNA_1	463.0 / 419.0	2.59	73243348.57	877944.67	1913.4	False	13C9-PFNA	124910.03	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.59	23014071.29	804072.60	2192.9	False	13C9-PFNA	124910.03	1250.00	PFNA	0.314	0.338	✓
PFOS_1	499.0 / 80.0	2.51	401822845.54	7482987.74	2451.1	True	13C8-PFOS	16984.22	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.57	71254448.33	6862707.38	4032.8	False	13C8-PFOS	16984.22	1195.00	PFOS	0.177	0.203	✓
PFDA_1	513.0 / 469.0	2.92	11962870.33	19607.18	1309.7	False	13C6-PFDA	793410.54	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.92	967128.56	25781.52	1453.4	False	13C6-PFDA	793410.54	1250.00	PFDA	0.081	0.059	✓
PFUnA_1	563.0 / 519.0	3.24	9819656.74	13658.08	1908.0	False	13C7-PFUnA	826874.22	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.24	644400.08	13238.75	2686.2	False	13C7-PFUnA	826874.22	1250.00	PFUnA	0.066	0.061	✓
PFDaA_1	613.0 / 569.0	3.54	10059411.06	12226.10	2304.6	False	13C2-PFDaA	1099357.77	1250.00	PFDaA			
PFDaA_2	613.0 / 319.0	3.54	1212223.07	12121.87	3348.9	False	13C2-PFDaA	1099357.77	1250.00	PFDaA	0.121	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.81	8339855.40	13171.44	3173.8	False	13C2-PFTTeDA	946259.97	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.81	653351.82	13732.32	3507.1	False	13C2-PFTTeDA	946259.97	1250.00	PFTTrDA	0.078	0.070	✓
PFTTeDA_1	713.0 / 669.0	4.05	8894883.90	11660.40	3749.5	False	13C2-PFTTeDA	946259.97	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.05	533212.92	12043.89	4356.6	False	13C2-PFTTeDA	946259.97	1250.00	PFTTeDA	0.060	0.055	✓
NMeFOSAA_1	570.0 / 419.0	3.07	1269202.79	11964.66	2383.8	False	d3-MeFOSAA	162320.87	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.07	1184691.70	11213.39	1514.9	False	d3-MeFOSAA	162320.87	1250.00	NMeFOSAA	0.933	1.078	✓
NEtFOSAA_1	584.0 / 419.0	3.23	1030879.54	10255.19	1506.6	False	d5-EtFOSAA	122524.84	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.23	59313.96	10420.50	555.2	False	d5-EtFOSAA	122524.84	1250.00	NEtFOSAA	0.058	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.64	4579255.68	7967.99	2609.2	True	13C3-HFPO-DA	326742.37	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.64	123507.93	9924.47	1663.2	False	13C3-HFPO-DA	326742.37	1250.00	HFPO-DA	0.027	0.023	✓
ADONA_1	377.0 / 251.0	1.92	4769045.97	16061.81	2273.1	False	13C3-PFHxS	32627.11	1182.50	ADONA			
ADONA_2	377.0 / 85.0	1.92	87338.23	18906.32	576.4	False	13C3-PFHxS	32627.11	1182.50	ADONA	0.018	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	2.78	9295535.38	9158.43	3161.4	False	13C2-PFDaA	1099357.77	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.78	98606.94	9488.56	970.1	False	13C2-PFDaA	1099357.77	1250.00	9CI-PF3ONS	0.011	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.40	7592234.01	10762.69	4341.0	False	13C2-PFDaA	1099357.77	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.40	38846.15	10534.24	961.3	False	13C2-PFDaA	1099357.77	1250.00	11Cl-PF3OUdS	0.005	0.005	✓

Sample Name	G1771MSD-FS-D(3)	Injection Vial	19
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:31:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	13256643.99	29634.46	4644.5	False	13C3-PFBS	222242.28	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	4463664.12	29289.30	3628.0	False	13C3-PFBS	222242.28	1162.50	PFBS	0.337	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	80926092.08	141954.67	2079.9	False	13C5-PFHxA	599490.93	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	4459714.91	125655.92	2367.0	False	13C5-PFHxA	599490.93	1250.00	PFHxA	0.055	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	17237880.45	50467.13	1056.1	False	13C4-PFHpA	477470.05	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.88	550408.29	52874.92	827.8	True	13C4-PFHpA	477470.05	1250.00	PFHpA	0.032	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	116146595.67	518229.31	4707.6	False	13C3-PFHxS	86510.15	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	37866472.11	463095.45	4667.4	False	13C3-PFHxS	86510.15	1182.50	PFHxS	0.326	0.359	✓
PFOA_1	413.0 / 369.0	2.25	131356857.63	306077.14	1689.3	False	13C8-PFOA	604526.31	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	11789597.38	286278.16	3501.3	False	13C8-PFOA	604526.31	1222.50	PFOA	0.090	0.093	✓
PFNA_1	463.0 / 419.0	2.62	40388115.95	149856.95	2357.2	False	13C9-PFNA	403362.30	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	13573875.65	146811.01	2323.8	False	13C9-PFNA	403362.30	1250.00	PFNA	0.336	0.338	✓
PFOS_1	499.0 / 80.0	2.55	197286812.58	987522.12	2161.6	False	13C8-PFOS	63187.34	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	37089513.76	960122.62	4585.6	False	13C8-PFOS	63187.34	1195.00	PFOS	0.188	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1110477.24	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1110477.24	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	984420.78	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	984420.78	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1233708.74	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1233708.74	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1212765.97	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1212765.97	1250.00	PFTTrDA	N/A	0.070	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1212765.97	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1212765.97	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	161835.71	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	161835.71	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	136618.72	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	136618.72	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	402484.12	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	402484.12	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	86510.15	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	86510.15	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1233708.74	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1233708.74	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1233708.74	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1233708.74	1250.00	11Cl-PF3OUdS	N/A	0.005	✓



Sample Name	G1771MSD-FS-D(7)	Injection Vial	21
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:52:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	2972379.45	5089.97	5061.0	False	13C3-PFBS	284360.24	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.32	981775.48	4952.27	4245.3	False	13C3-PFBS	284360.24	1162.50	PFBS	0.330	0.333	✓
PFHxA_1	313.0 / 269.0	1.56	21735358.73	20520.79	2220.9	False	13C5-PFHxA	1110461.47	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	1219868.28	18498.64	2243.7	False	13C5-PFHxA	1110461.47	1250.00	PFHxA	0.056	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1041385.34	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1041385.34	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.89	34710224.18	68824.98	4214.9	False	13C3-PFHxS	194414.44	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.89	11986472.81	65154.26	6151.6	False	13C3-PFHxS	194414.44	1182.50	PFHxS	0.345	0.359	✓
PFOA_1	413.0 / 369.0	2.23	41025755.91	44265.67	1792.2	False	13C8-PFOA	1303887.54	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.23	3794299.38	42684.45	3442.4	False	13C8-PFOA	1303887.54	1222.50	PFOA	0.092	0.093	✓
PFNA_1	463.0 / 419.0	2.60	14038762.89	23512.84	1811.7	False	13C9-PFNA	891236.20	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.59	4871108.78	23792.68	3310.3	False	13C9-PFNA	891236.20	1250.00	PFNA	0.347	0.338	✓
PFOS_1	499.0 / 80.0	2.56	59934461.70	120611.31	2831.1	False	13C8-PFOS	157147.98	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.59	11408591.49	118696.01	4250.7	False	13C8-PFOS	157147.98	1195.00	PFOS	0.190	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1197217.49	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1197217.49	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1116407.01	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1116407.01	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1327017.40	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1327017.40	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1208747.58	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1208747.58	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1208747.58	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1208747.58	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	178776.95	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	178776.95	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	170000.19	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	170000.19	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	418863.89	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	418863.89	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	194414.44	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	194414.44	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1327017.40	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1327017.40	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1327017.40	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1327017.40	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1771MSD-FS-D(9)	Injection Vial	22
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:03:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	277595.06	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	277595.06	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1148037.06	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1148037.06	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1091645.31	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1091645.31	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.90	15620464.01	25627.86	4068.2	False	13C3-PFHxS	234370.01	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	5281291.85	23757.47	4606.2	False	13C3-PFHxS	234370.01	1182.50	PFHxS	0.338	0.359	✓
PFOA_1	413.0 / 369.0	2.25	17607510.07	16522.24	1599.1	False	13C8-PFOA	1495602.23	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.24	1759853.68	17237.47	2174.0	False	13C8-PFOA	1495602.23	1222.50	PFOA	0.100	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1221128.55	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1221128.55	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.58	25448220.38	45894.15	1977.9	False	13C8-PFOS	175312.00	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.60	5412891.67	50446.76	2491.1	False	13C8-PFOS	175312.00	1195.00	PFOS	0.213	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1228750.51	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1228750.51	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1243470.83	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1243470.83	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1417001.95	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1417001.95	1250.00	PFDoA	N/A	0.117	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1252837.44	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1252837.44	1250.00	PFTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1252837.44	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1252837.44	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	172027.10	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	172027.10	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	185861.30	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	185861.30	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	409584.39	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	409584.39	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	234370.01	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	234370.01	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1417001.95	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1417001.95	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1417001.95	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1417001.95	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1771MSD-FS-D(11)	Injection Vial	23
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:13:41 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	268596.85	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	268596.85	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1281503.73	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1281503.73	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1226139.69	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1226139.69	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	6324478.19	11226.52	3375.4	False	13C3-PFHxS	215509.85	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	2104783.80	10247.03	3016.9	False	13C3-PFHxS	215509.85	1182.50	PFHxS	0.333	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1560492.27	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1560492.27	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1288033.05	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1288033.05	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.63	11584276.70	17965.10	2205.2	False	13C8-PFOS	203740.87	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.63	2322605.63	18587.79	2870.2	False	13C8-PFOS	203740.87	1195.00	PFOS	0.200	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1248316.90	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1248316.90	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1156578.77	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1156578.77	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1418914.80	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1418914.80	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1273728.88	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1273728.88	1250.00	PFTTrDA	N/A	0.070	✓
PFTTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1273728.88	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTTeDA	1273728.88	1250.00	PFTTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	181678.85	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	181678.85	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	183549.02	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	183549.02	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	399391.79	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	399391.79	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	215509.85	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	215509.85	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1418914.80	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1418914.80	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1418914.80	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1418914.80	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1772-FS(0)	Injection Vial	26
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:45:09 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	11704284.46	71799.47	1693.9	False	13C3-PFBS	81187.00	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.31	3719087.14	66930.43	1728.2	False	13C3-PFBS	81187.00	1162.50	PFBS	0.318	0.333	✓
PFHxA_1	313.0 / 269.0	1.56	157340666.73	1408380.81	1113.4	False	13C5-PFHxA	117534.26	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.56	7923255.64	1139205.29	1191.3	False	13C5-PFHxA	117534.26	1250.00	PFHxA	0.050	0.062	✓
PFHpA_1	363.0 / 319.0	1.88	26832676.05	645710.70	625.0	False	13C4-PFHpA	58153.16	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.87	1074633.37	848464.34	974.2	True	13C4-PFHpA	58153.16	1250.00	PFHpA	0.040	0.030	✓
PFHxS_1	399.0 / 80.0	1.88	163523018.51	3674531.75	2198.5	False	13C3-PFHxS	17180.42	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.89	50891320.67	3134460.48	3548.3	False	13C3-PFHxS	17180.42	1182.50	PFHxS	0.311	0.359	✓
PFOA_1	413.0 / 369.0	2.26	91805939.70	1426692.31	922.4	False	13C8-PFOA	90657.96	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	11160824.09	1807352.61	1414.7	False	13C8-PFOA	90657.96	1222.50	PFOA	0.122	0.093	✓
PFNA_1	463.0 / 419.0	2.58	152560543.83	12945653.03	2409.5	False	13C9-PFNA	17646.10	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.58	48015652.69	11875841.01	1998.0	False	13C9-PFNA	17646.10	1250.00	PFNA	0.315	0.338	✓
PFOS_1	499.0 / 80.0	2.55	1142021797.08	77082421.20	5250.8	False	13C8-PFOS	4686.04	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.58	220165616.82	76855691.46	10860.0	False	13C8-PFOS	4686.04	1195.00	PFOS	0.193	0.203	✓
PFDA_1	513.0 / 469.0	2.97	31304558.47	315111.78	1375.7	False	13C6-PFDA	129419.18	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.97	2047230.18	334494.78	704.0	True	13C6-PFDA	129419.18	1250.00	PFDA	0.065	0.059	✓
PFUnA_1	563.0 / 519.0	3.28	115705249.89	428691.02	4688.4	False	13C7-PFUnA	311866.11	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.28	6516041.03	354091.00	2152.6	False	13C7-PFUnA	311866.11	1250.00	PFUnA	0.056	0.061	✓
PFDoA_1	613.0 / 569.0	3.56	377965.02	1418.14	598.8	False	13C2-PFDoA	343122.78	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.56	38150.62	1199.22	541.1	False	13C2-PFDoA	343122.78	1250.00	PFDoA	0.101	0.117	✓
PFTTrDA_1	663.0 / 619.0	3.80	2657166.94	23886.52	2099.2	False	13C2-PFTeDA	166907.11	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.79	230186.97	27473.40	1733.2	False	13C2-PFTeDA	166907.11	1250.00	PFTTrDA	0.087	0.070	✓
PFTeDA_1	713.0 / 669.0	4.01	16122.44	49.24	254.7	False	13C2-PFTeDA	166907.11	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.01	1062.08	111.45	50.5	False	13C2-PFTeDA	166907.11	1250.00	PFTeDA	0.066	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	20956.45	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	20956.45	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	27388.09	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	27388.09	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	1.64	22679.69	5.36	78.3	False	13C3-HFPO-DA	220690.00	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	220690.00	1250.00	HFPO-DA	N/A	0.023	
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	17180.42	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	17180.42	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	343122.78	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	343122.78	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.44	2735.94	4.81	68.6	False	13C2-PFDoA	343122.78	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	343122.78	1250.00	11Cl-PF3OUdS	N/A	0.005	

Sample Name	G1772-FS-D(3)	Injection Vial	27
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:55:37 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	236751.50	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	236751.50	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.57	61332672.71	95387.77	1509.5	False	13C5-PFHxA	675980.96	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	3639693.19	90928.72	1412.2	False	13C5-PFHxA	675980.96	1250.00	PFHxA	0.059	0.062	✓
PFHpA_1	363.0 / 319.0	1.89	14845564.93	40788.47	829.2	False	13C4-PFHpA	508636.66	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.89	586975.89	52932.70	1478.3	False	13C4-PFHpA	508636.66	1250.00	PFHpA	0.040	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	77121716.91	309231.66	3192.7	False	13C3-PFHxS	96253.54	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	24750283.11	272012.15	4033.8	False	13C3-PFHxS	96253.54	1182.50	PFHxS	0.321	0.359	✓
PFOA_1	413.0 / 369.0	2.26	45463624.82	90422.60	1178.9	False	13C8-PFOA	707882.99	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.26	4949147.12	102605.58	1797.5	False	13C8-PFOA	707882.99	1222.50	PFOA	0.109	0.093	✓
PFNA_1	463.0 / 419.0	2.61	80558490.11	833369.78	1811.3	False	13C9-PFNA	144733.11	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.61	26410818.38	796366.12	1504.9	False	13C9-PFNA	144733.11	1250.00	PFNA	0.328	0.338	✓
PFOS_1	499.0 / 80.0	2.55	427563282.67	6100360.25	2609.2	False	13C8-PFOS	22168.21	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.60	78759327.61	5811653.67	2894.7	False	13C8-PFOS	22168.21	1195.00	PFOS	0.184	0.203	✓
PFDA_1	513.0 / 469.0	2.95	10099207.03	18687.08	1053.4	False	13C6-PFDA	702720.93	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.95	749846.23	22569.77	1194.6	False	13C6-PFDA	702720.93	1250.00	PFDA	0.074	0.059	✓
PFUnA_1	563.0 / 519.0	3.26	16013560.70	19086.15	2288.5	False	13C7-PFUnA	966266.13	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.26	865663.74	15214.02	1719.0	False	13C7-PFUnA	966266.13	1250.00	PFUnA	0.054	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1141259.80	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1141259.80	1250.00	PFDoA	N/A	0.117	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1072717.34	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1072717.34	1250.00	PFTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1072717.34	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1072717.34	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	130453.72	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	130453.72	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	126921.45	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	126921.45	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	411159.79	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	411159.79	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	96253.54	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	96253.54	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1141259.80	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1141259.80	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1141259.80	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1141259.80	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1772-FS-D(7)	Injection Vial	29
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:16:35 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	297679.80	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	297679.80	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	1.56	14367693.14	13603.04	1444.0	False	13C5-PFHxA	1105358.65	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.56	910729.46	13857.86	1432.4	False	13C5-PFHxA	1105358.65	1250.00	PFHxA	0.063	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1084461.83	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1084461.83	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.90	23057536.96	44146.51	2760.2	False	13C3-PFHxS	201173.02	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	7754356.44	40700.96	4114.0	False	13C3-PFHxS	201173.02	1182.50	PFHxS	0.336	0.359	✓
PFOA_1	413.0 / 369.0	2.25	12186466.87	13606.27	1110.5	False	13C8-PFOA	1255922.75	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	1652144.30	19275.17	1931.4	False	13C8-PFOA	1255922.75	1222.50	PFOA	0.136	0.093	✓
PFNA_1	463.0 / 419.0	2.62	38068191.30	118258.16	2526.5	False	13C9-PFNA	481717.59	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	12933757.87	117121.35	2552.8	False	13C9-PFNA	481717.59	1250.00	PFNA	0.340	0.338	✓
PFOS_1	499.0 / 80.0	2.57	177895020.57	729020.76	3348.1	False	13C8-PFOS	77179.12	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	34041144.70	721441.19	3970.0	False	13C8-PFOS	77179.12	1195.00	PFOS	0.191	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1077955.27	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1077955.27	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1037109.70	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1037109.70	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1276838.09	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1276838.09	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1162689.27	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1162689.27	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1162689.27	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1162689.27	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	150406.82	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	150406.82	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	160414.33	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	160414.33	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	384458.91	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	384458.91	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	201173.02	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	201173.02	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1276838.09	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1276838.09	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1276838.09	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1276838.09	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1772-FS-D(9)	Injection Vial	30
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:27:04 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	291179.40	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	291179.40	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1257728.92	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1257728.92	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1175876.35	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1175876.35	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	1.91	10497565.05	17260.90	2891.7	False	13C3-PFHxS	233399.75	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.91	3751132.98	16919.13	3633.7	False	13C3-PFHxS	233399.75	1182.50	PFHxS	0.357	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1519137.72	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1519137.72	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	2.63	24094940.94	46449.71	2034.5	False	13C9-PFNA	775505.43	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.63	8381628.33	47109.43	2321.8	False	13C9-PFNA	775505.43	1250.00	PFNA	0.348	0.338	✓
PFOS_1	499.0 / 80.0	2.61	99465986.81	258733.71	3335.3	False	13C8-PFOS	121584.28	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.62	20263005.17	272560.82	4616.8	False	13C8-PFOS	121584.28	1195.00	PFOS	0.204	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1238542.52	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1238542.52	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1118116.88	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1118116.88	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1337473.71	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1337473.71	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1216416.81	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1216416.81	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1216416.81	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1216416.81	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	176014.96	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	176014.96	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	156678.61	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	156678.61	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	430303.64	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	430303.64	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	233399.75	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	233399.75	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1337473.71	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1337473.71	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1337473.71	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1337473.71	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	G1772-FS-D(11)	Injection Vial	31
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:37:33 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	267431.31	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	267431.31	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1188744.02	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1188744.02	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1263403.86	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1263403.86	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	242194.55	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	242194.55	1182.50	PFHxS	N/A	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1476096.49	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1476096.49	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	2.64	12933698.61	17448.76	1845.4	False	13C9-PFNA	1105234.13	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	4371920.42	17202.69	2719.1	False	13C9-PFNA	1105234.13	1250.00	PFNA	0.338	0.338	✓
PFOS_1	499.0 / 80.0	2.63	50067460.73	100277.58	2743.8	False	13C8-PFOS	157891.37	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.64	10552064.19	109262.96	3080.0	False	13C8-PFOS	157891.37	1195.00	PFOS	0.211	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1218696.85	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1218696.85	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1152019.95	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1152019.95	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1370100.05	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1370100.05	1250.00	PFDoA	N/A	0.117	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1252745.61	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1252745.61	1250.00	PFTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1252745.61	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1252745.61	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	181750.09	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	181750.09	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	176098.61	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	176098.61	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	396454.64	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	396454.64	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	242194.55	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	242194.55	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1370100.05	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1370100.05	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1370100.05	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1370100.05	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1772-FS-D(13)	Injection Vial	32
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:48:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321
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	274710.41	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	274710.41	1162.50	PFBS	N/A	0.333	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1253647.25	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1253647.25	1250.00	PFHxA	N/A	0.062	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1204304.52	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1204304.52	1250.00	PFHpA	N/A	0.030	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	225782.75	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	225782.75	1182.50	PFHxS	N/A	0.359	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1655516.70	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1655516.70	1222.50	PFOA	N/A	0.093	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1272289.73	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1272289.73	1250.00	PFNA	N/A	0.338	✓
PFOS_1	499.0 / 80.0	2.61	11680645.36	19221.28	1455.6	False	13C8-PFOS	192022.80	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	2497541.57	21216.02	1797.3	False	13C8-PFOS	192022.80	1195.00	PFOS	0.214	0.203	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1244667.38	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1244667.38	1250.00	PFDA	N/A	0.059	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1241355.24	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1241355.24	1250.00	PFUnA	N/A	0.061	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1331634.16	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1331634.16	1250.00	PFDoA	N/A	0.117	✓
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1231658.48	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1231658.48	1250.00	PFTTrDA	N/A	0.070	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1231658.48	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1231658.48	1250.00	PFTeDA	N/A	0.055	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	171281.50	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	171281.50	1250.00	NMeFOSAA	N/A	1.078	✓
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	164659.94	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	164659.94	1250.00	NEtFOSAA	N/A	0.055	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	391831.34	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	391831.34	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	225782.75	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	225782.75	1182.50	ADONA	N/A	0.015	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1331634.16	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1331634.16	1250.00	9CI-PF3ONS	N/A	0.010	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1331634.16	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1331634.16	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

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	11/10/2020 9:10:26 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1394502.45	1281.95	5116.0	False	13C2-PFDA	1097673.25	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	190731.11	1253.23	1033.3	False	13C4-PFOS	208048.51	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	177498.08	1338.22	979.8	False	13C4-PFOS	208048.51	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1267197.96	1397.87	7663.2	False	13C2-PFOA	814958.32	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1231440.39	1315.57	10711.2	False	13C2-PFOA	814958.32	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1459209.00	1241.03	8352.7	False	13C2-PFOA	814958.32	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1405602.96	1320.76	16850.6	False	13C2-PFOA	814958.32	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1357837.79	1386.30	4533.9	False	13C2-PFDA	1097673.25	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1150820.83	1332.26	5004.0	False	13C2-PFDA	1097673.25	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1291941.46	1314.03	4811.9	False	13C2-PFDA	1097673.25	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	278121.47	1163.48	8256.4	False	13C4-PFOS	208048.51	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	210221.76	1077.56	5899.6	False	13C4-PFOS	208048.51	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	205943.95	1160.38	3604.6	False	13C4-PFOS	208048.51	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	451894.36	1170.56	3494.1	False	13C2-PFOA	814958.32	1250.00		N/A	N/A	✓

Sample Name	DA945PB-FS(0)	Injection Vial	19
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:05:31 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1435723.54	1141.51	4496.0	False	13C2-PFDA	1269155.76	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	209597.87	1172.73	1112.6	False	13C4-PFOS	244323.04	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.31	188140.60	1207.86	1477.2	False	13C4-PFOS	244323.04	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1279087.41	1120.47	6716.8	False	13C2-PFOA	1026260.64	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.91	1244895.30	1056.12	14880.0	False	13C2-PFOA	1026260.64	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1503863.05	1015.66	11274.9	False	13C2-PFOA	1026260.64	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1480899.10	1105.01	43332.0	False	13C2-PFOA	1026260.64	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1283934.35	1133.73	3969.7	False	13C2-PFDA	1269155.76	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.32	1146364.16	1147.79	5696.7	False	13C2-PFDA	1269155.76	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1223034.76	1075.87	4780.3	False	13C2-PFDA	1269155.76	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	321855.25	1146.53	4086.6	False	13C4-PFOS	244323.04	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	236198.65	1030.96	2488.1	False	13C4-PFOS	244323.04	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	222228.11	1066.23	1558.0	False	13C4-PFOS	244323.04	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.67	454182.80	934.25	3186.4	False	13C2-PFOA	1026260.64	1250.00		N/A	N/A	✓

Sample Name	DA946LCS-FS(0)	Injection Vial	20
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:15:58 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1291427.14	1119.65	4256.3	False	13C2-PFDA	1163889.23	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	179136.83	1186.88	1049.6	False	13C4-PFOS	206325.36	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	145467.83	1105.90	1123.7	False	13C4-PFOS	206325.36	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1151178.84	1132.80	4369.7	False	13C2-PFOA	913581.93	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1120523.12	1067.85	29949.8	False	13C2-PFOA	913581.93	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1493682.52	1133.21	60020.3	False	13C2-PFOA	913581.93	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1257747.94	1054.25	3248.8	False	13C2-PFOA	913581.93	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1113433.13	1072.10	14411.6	False	13C2-PFDA	1163889.23	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	997502.47	1089.07	2847.7	False	13C2-PFDA	1163889.23	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1152178.23	1105.21	4423.2	False	13C2-PFDA	1163889.23	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	299358.65	1262.78	4963.7	False	13C4-PFOS	206325.36	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	210156.38	1086.22	1877.7	False	13C4-PFOS	206325.36	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	201042.03	1142.22	1355.8	False	13C4-PFOS	206325.36	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	466029.33	1076.85	3082.0	False	13C2-PFOA	913581.93	1250.00		N/A	N/A	✓

Sample Name	G1765-FS(0)	Injection Vial	21
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:26:27 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	659369.98	1569.98	2150.3	False	13C2-PFDA	423799.34	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	99111.11	4184.03	883.9	False	13C4-PFOS	32381.86	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	31926.32	1546.49	351.6	False	13C4-PFOS	32381.86	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	256564.48	933.31	514.0	False	13C2-PFOA	247131.28	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	187418.64	660.27	673.6	False	13C2-PFOA	247131.28	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	240091.85	673.36	754.5	False	13C2-PFOA	247131.28	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	147773.48	457.89	807.9	False	13C2-PFOA	247131.28	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	365670.41	966.97	1857.9	False	13C2-PFDA	423799.34	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	270826.52	812.05	1516.4	False	13C2-PFDA	423799.34	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	521683.74	1374.30	4853.3	False	13C2-PFDA	423799.34	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	126094.88	3389.10	1580.8	False	13C4-PFOS	32381.86	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	36211.54	1192.54	206.0	False	13C4-PFOS	32381.86	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	27101.26	981.08	180.4	False	13C4-PFOS	32381.86	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	287599.27	2456.69	926.4	False	13C2-PFOA	247131.28	1250.00		N/A	N/A	✓

Sample Name	G1765-FS-D(3)	Injection Vial	22
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:36:56 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1033183.85	1250.10	3323.5	False	13C2-PFDA	833980.79	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	148824.75	2613.50	970.2	False	13C4-PFOS	77844.27	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	85711.12	1727.07	871.6	False	13C4-PFOS	77844.27	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	655984.15	1019.65	1210.2	False	13C2-PFOA	578363.21	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	594104.03	894.33	1858.5	False	13C2-PFOA	578363.21	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	782525.95	937.77	2714.1	False	13C2-PFOA	578363.21	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	454882.90	602.28	1458.8	False	13C2-PFOA	578363.21	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	846775.70	1137.87	83062.9	False	13C2-PFDA	833980.79	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	642877.48	979.55	2865.9	False	13C2-PFDA	833980.79	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1004240.54	1344.37	4455.0	False	13C2-PFDA	833980.79	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	234170.46	2618.15	3061.6	False	13C4-PFOS	77844.27	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	125646.63	1721.28	1214.4	False	13C4-PFOS	77844.27	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	67630.08	1018.42	407.8	False	13C4-PFOS	77844.27	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	361035.68	1317.77	1403.9	False	13C2-PFOA	578363.21	1250.00		N/A	N/A	✓

Sample Name	G1765-FS-D(5)	Injection Vial	23
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:47:24 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1286793.61	1283.13	4476.9	False	13C2-PFDA	1011957.48	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	161133.37	1823.95	934.2	False	13C4-PFOS	120766.35	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	117549.40	1526.77	914.2	False	13C4-PFOS	120766.35	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	956423.12	1127.79	2449.5	False	13C2-PFOA	762397.14	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	956568.62	1092.37	3134.1	False	13C2-PFOA	762397.14	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1069372.43	972.18	2517.9	False	13C2-PFOA	762397.14	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	747149.21	750.45	2487.2	False	13C2-PFOA	762397.14	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1084169.06	1200.65	9319.2	False	13C2-PFDA	1011957.48	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	861207.00	1081.43	3744.3	False	13C2-PFDA	1011957.48	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	1102844.73	1216.71	3735.5	False	13C2-PFDA	1011957.48	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	269686.00	1943.57	4863.2	False	13C4-PFOS	120766.35	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	167800.70	1481.75	1281.0	False	13C4-PFOS	120766.35	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	119713.07	1162.01	753.9	False	13C4-PFOS	120766.35	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	394779.37	1093.11	1908.6	False	13C2-PFOA	762397.14	1250.00		N/A	N/A	✓

Sample Name	G1765-FS-D(7)	Injection Vial	24
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:57:52 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1293482.52	1266.69	5175.7	False	13C2-PFDA	1030424.35	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	162786.94	1344.50	1028.3	False	13C4-PFOS	165513.40	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	145291.52	1376.91	979.1	False	13C4-PFOS	165513.40	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1102468.90	1225.87	2834.7	False	13C2-PFOA	808497.13	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1113397.51	1198.97	3039.0	False	13C2-PFOA	808497.13	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1190522.64	1020.61	3872.1	False	13C2-PFOA	808497.13	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1010356.12	956.96	3118.1	False	13C2-PFOA	808497.13	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1108561.52	1205.66	3459.4	False	13C2-PFDA	1030424.35	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	964726.13	1189.71	4160.6	False	13C2-PFDA	1030424.35	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1133387.30	1228.00	3662.6	False	13C2-PFDA	1030424.35	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	277066.63	1456.93	5128.1	False	13C4-PFOS	165513.40	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	229439.32	1478.30	1897.4	False	13C4-PFOS	165513.40	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	167312.73	1184.98	1280.1	False	13C4-PFOS	165513.40	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	388933.80	1015.52	3082.8	False	13C2-PFOA	808497.13	1250.00		N/A	N/A	✓

Sample Name	G1765-FS-D(9)	Injection Vial	25
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:08:20 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1342265.14	1185.78	4520.2	False	13C2-PFDA	1142246.62	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	167200.31	1141.90	1237.1	False	13C4-PFOS	200162.44	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	172510.47	1351.86	862.5	False	13C4-PFOS	200162.44	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1237432.26	1133.46	5048.1	False	13C2-PFOA	981459.11	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1178025.12	1045.01	4974.2	False	13C2-PFOA	981459.11	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1358035.21	959.04	5729.3	False	13C2-PFOA	981459.11	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1318341.04	1028.61	9074.6	False	13C2-PFOA	981459.11	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1303600.04	1278.99	5492.1	False	13C2-PFDA	1142246.62	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1162162.74	1292.89	8906.6	False	13C2-PFDA	1142246.62	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1157346.92	1131.20	3914.9	False	13C2-PFDA	1142246.62	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	274675.66	1194.34	5463.9	False	13C4-PFOS	200162.44	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	229723.33	1223.91	1739.5	False	13C4-PFOS	200162.44	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	209737.24	1228.31	1809.5	False	13C4-PFOS	200162.44	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	406528.21	874.40	6312.1	False	13C2-PFOA	981459.11	1250.00		N/A	N/A	✓

Sample Name	G1766-FS(0)	Injection Vial	28
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:39:43 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1133164.46	2739.58	3272.7	False	13C2-PFDA	417381.16	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	111964.08	7823.00	668.7	False	13C4-PFOS	19564.97	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	74835.35	5999.67	664.9	False	13C4-PFOS	19564.97	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	215772.10	861.12	546.5	False	13C2-PFOA	225263.71	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	149447.74	577.61	593.4	False	13C2-PFOA	225263.71	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	185151.33	569.68	783.8	False	13C2-PFOA	225263.71	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	105545.03	358.79	504.8	False	13C2-PFOA	225263.71	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	373429.21	1002.67	1476.3	False	13C2-PFDA	417381.16	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	595166.23	1812.00	2191.4	False	13C2-PFDA	417381.16	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1030661.30	2756.89	3976.9	False	13C2-PFDA	417381.16	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	110213.78	4902.81	1289.3	False	13C4-PFOS	19564.97	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	32206.63	1755.47	231.2	False	13C4-PFOS	19564.97	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	16734.23	1002.63	119.5	False	13C4-PFOS	19564.97	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	334158.50	3131.50	1077.6	False	13C2-PFOA	225263.71	1250.00		N/A	N/A	✓

Sample Name	G1766-FS-D(5)	Injection Vial	30
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:00:39 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1296143.59	1229.98	5656.2	False	13C2-PFDA	1063356.29	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	161518.97	1644.56	860.2	False	13C4-PFOS	134260.26	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	158294.58	1849.35	1041.5	False	13C4-PFOS	134260.26	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1031347.41	1151.94	2835.3	False	13C2-PFOA	804884.07	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1023138.33	1106.72	3029.7	False	13C2-PFOA	804884.07	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1229311.05	1058.59	21957.0	False	13C2-PFOA	804884.07	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	787402.74	749.14	2917.8	False	13C2-PFOA	804884.07	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1196050.15	1260.53	16436.5	False	13C2-PFDA	1063356.29	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1061916.73	1269.01	3791.4	False	13C2-PFDA	1063356.29	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1159870.41	1217.77	3804.0	False	13C2-PFDA	1063356.29	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	317675.70	2059.33	4733.2	False	13C4-PFOS	134260.26	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	183066.01	1454.08	2360.3	False	13C4-PFOS	134260.26	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	134242.89	1172.09	947.5	False	13C4-PFOS	134260.26	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	407716.32	1069.34	2613.0	False	13C2-PFOA	804884.07	1250.00		N/A	N/A	✓

Sample Name	G1766-FS-D(7)	Injection Vial	31
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:11:06 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1308432.18	1220.61	4486.6	False	13C2-PFDA	1081679.74	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	169569.53	1365.71	815.0	False	13C4-PFOS	169731.72	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	160058.43	1479.16	1143.8	False	13C4-PFOS	169731.72	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1108443.86	1161.79	4431.8	False	13C2-PFOA	857715.71	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1075927.75	1092.13	6202.6	False	13C2-PFOA	857715.71	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1467826.46	1186.13	5754.7	False	13C2-PFOA	857715.71	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1067352.85	952.93	3487.6	False	13C2-PFOA	857715.71	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1299322.57	1346.17	6574.3	False	13C2-PFDA	1081679.74	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1059975.05	1245.23	6119.6	False	13C2-PFDA	1081679.74	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1159676.51	1196.94	3806.2	False	13C2-PFDA	1081679.74	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	277994.61	1425.48	5683.9	False	13C4-PFOS	169731.72	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	215356.20	1353.08	2458.8	False	13C4-PFOS	169731.72	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	168214.90	1161.76	1147.4	False	13C4-PFOS	169731.72	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	407643.24	1003.29	5700.9	False	13C2-PFOA	857715.71	1250.00		N/A	N/A	✓

Sample Name	G1766-FS-D(9)	Injection Vial	32
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:21:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1223131.97	1081.34	5425.7	False	13C2-PFDA	1141398.15	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	180404.73	1196.14	1036.8	False	13C4-PFOS	206177.26	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	177931.58	1353.67	1276.4	False	13C4-PFOS	206177.26	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1281759.96	1299.63	6966.5	False	13C2-PFOA	886638.08	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1226273.99	1204.14	6675.5	False	13C2-PFOA	886638.08	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1457168.36	1139.10	13112.3	False	13C2-PFOA	886638.08	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1351411.87	1167.18	14878.3	False	13C2-PFOA	886638.08	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1323755.57	1299.73	8549.5	False	13C2-PFDA	1141398.15	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1166029.54	1298.15	4091.6	False	13C2-PFDA	1141398.15	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.09	1165512.92	1140.03	3379.4	False	13C2-PFDA	1141398.15	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	275684.22	1163.75	8092.6	False	13C4-PFOS	206177.26	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	222499.68	1150.85	24826.7	False	13C4-PFOS	206177.26	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	180245.10	1024.80	1611.1	False	13C4-PFOS	206177.26	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	422076.63	1004.93	4502.1	False	13C2-PFOA	886638.08	1250.00		N/A	N/A	✓

Sample Name	G1767-FS(0)	Injection Vial	33
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:32:03 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1137143.45	2794.07	3777.4	False	13C2-PFDA	410678.26	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	118712.07	7119.19	832.0	False	13C4-PFOS	22794.94	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	74598.45	5133.24	754.0	False	13C4-PFOS	22794.94	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	196515.01	771.73	544.0	False	13C2-PFOA	228923.66	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	139089.46	528.98	504.5	False	13C2-PFOA	228923.66	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	183579.85	555.82	648.9	False	13C2-PFOA	228923.66	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	102900.20	344.21	677.2	False	13C2-PFOA	228923.66	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	375061.44	1023.49	1291.3	False	13C2-PFDA	410678.26	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	608026.79	1881.37	1891.0	False	13C2-PFDA	410678.26	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	979684.77	2663.30	4510.3	False	13C2-PFDA	410678.26	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	105726.22	4036.76	1163.6	False	13C4-PFOS	22794.94	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	27279.56	1276.22	156.3	False	13C4-PFOS	22794.94	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	16565.90	851.91	94.0	False	13C4-PFOS	22794.94	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	323809.96	2986.00	1114.8	False	13C2-PFOA	228923.66	1250.00		N/A	N/A	✓

Sample Name	G1767-FS-D(7)	Injection Vial	35
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:52:58 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1382665.79	1285.59	4817.1	False	13C2-PFDA	1085274.92	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	186986.31	1590.30	1031.7	False	13C4-PFOS	160733.07	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	169035.77	1649.58	971.8	False	13C4-PFOS	160733.07	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1123590.98	1125.86	3866.0	False	13C2-PFOA	897182.42	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1108198.30	1075.41	3764.9	False	13C2-PFOA	897182.42	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	1445191.37	1116.46	9133.8	False	13C2-PFOA	897182.42	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1026007.17	875.72	2734.7	False	13C2-PFOA	897182.42	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1202200.03	1241.42	4204.4	False	13C2-PFDA	1085274.92	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1085743.38	1271.28	3381.0	False	13C2-PFDA	1085274.92	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1196427.84	1230.79	4023.8	False	13C2-PFDA	1085274.92	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	297956.98	1613.38	11367.8	False	13C4-PFOS	160733.07	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	207787.60	1378.61	2253.4	False	13C4-PFOS	160733.07	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	153754.38	1121.34	1004.6	False	13C4-PFOS	160733.07	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	393166.62	925.10	10672.3	False	13C2-PFOA	897182.42	1250.00		N/A	N/A	✓

Sample Name	G1767-FS-D(9)	Injection Vial	36
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:03:27 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1447491.16	1349.24	5634.5	False	13C2-PFDA	1082560.30	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	178151.46	1237.65	1131.5	False	13C4-PFOS	196772.74	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	171538.55	1367.40	892.7	False	13C4-PFOS	196772.74	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1248102.73	1181.97	5345.3	False	13C2-PFOA	949298.97	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1216547.53	1115.74	40456.6	False	13C2-PFOA	949298.97	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1553114.14	1133.96	7055.2	False	13C2-PFOA	949298.97	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1273377.84	1027.19	3732.5	False	13C2-PFOA	949298.97	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1313702.74	1359.96	1101.7	False	13C2-PFDA	1082560.30	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1085576.27	1274.27	3387.5	False	13C2-PFDA	1082560.30	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1218457.54	1256.59	3273.4	False	13C2-PFDA	1082560.30	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	268335.89	1186.87	6565.3	False	13C4-PFOS	196772.74	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	206243.02	1117.74	264196.3	False	13C4-PFOS	196772.74	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	209412.29	1247.53	2219.2	False	13C4-PFOS	196772.74	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	395913.62	880.42	5513.8	False	13C2-PFOA	949298.97	1250.00		N/A	N/A	✓

Sample Name	G1768-FS(0)	Injection Vial	39
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:34:50 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1068967.11	3338.84	3237.8	False	13C2-PFDA	323067.25	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	97743.60	9985.61	715.7	False	13C4-PFOS	13380.98	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.26	70143.89	8222.46	528.1	False	13C4-PFOS	13380.98	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	116488.74	404.17	338.5	False	13C2-PFOA	259104.76	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	50805.14	170.71	299.5	False	13C2-PFOA	259104.76	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	127507.95	341.08	522.0	False	13C2-PFOA	259104.76	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.59	30123.72	89.03	360.7	False	13C2-PFOA	259104.76	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	279037.20	967.95	1116.0	False	13C2-PFDA	323067.25	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.27	561308.24	2207.81	1893.0	False	13C2-PFDA	323067.25	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.03	1029500.73	3557.70	3264.3	False	13C2-PFDA	323067.25	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	62990.14	4097.07	898.4	False	13C4-PFOS	13380.98	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	12935.42	1030.91	119.2	False	13C4-PFOS	13380.98	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.59	10110.37	885.72	57.3	False	13C4-PFOS	13380.98	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	249829.61	2035.45	1185.4	False	13C2-PFOA	259104.76	1250.00		N/A	N/A	✓

Sample Name	G1768-FS-D(3)	Injection Vial	40
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:45:18 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1156145.79	1807.11	3677.5	False	13C2-PFDA	645581.84	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	130170.76	11113.58	878.2	False	13C4-PFOS	16011.56	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	112685.60	11039.13	1053.1	False	13C4-PFOS	16011.56	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	385410.19	878.38	1172.2	False	13C2-PFOA	394454.09	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	213353.84	470.91	1214.5	False	13C2-PFOA	394454.09	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	422852.13	743.00	1473.6	False	13C2-PFOA	394454.09	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	114703.72	222.68	818.7	False	13C2-PFOA	394454.09	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	726476.83	1261.11	2343.1	False	13C2-PFDA	645581.84	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	825038.09	1623.96	2571.6	False	13C2-PFDA	645581.84	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1153359.13	1994.57	3767.6	False	13C2-PFDA	645581.84	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	179154.32	9738.28	2048.7	False	13C4-PFOS	16011.56	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	42889.84	2856.60	379.6	False	13C4-PFOS	16011.56	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	21061.89	1541.98	197.8	False	13C4-PFOS	16011.56	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	401643.00	2149.49	2011.7	False	13C2-PFOA	394454.09	1250.00		N/A	N/A	✓

Sample Name	G1768-FS-D(5)	Injection Vial	41
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:55:45 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1359778.85	1320.07	4309.9	False	13C2-PFDA	1039430.91	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	177040.85	2768.62	1069.6	False	13C4-PFOS	87414.61	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	175014.26	3140.43	965.8	False	13C4-PFOS	87414.61	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1146377.30	1201.59	3779.0	False	13C2-PFOA	857687.20	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	866840.05	879.93	3781.6	False	13C2-PFOA	857687.20	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1442415.76	1165.63	165441.3	False	13C2-PFOA	857687.20	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	639629.52	571.08	2966.4	False	13C2-PFOA	857687.20	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1187268.01	1280.07	14040.7	False	13C2-PFDA	1039430.91	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1116715.13	1365.21	5563.4	False	13C2-PFDA	1039430.91	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1255150.16	1348.14	4303.8	False	13C2-PFDA	1039430.91	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	293838.69	2925.59	4232.3	False	13C4-PFOS	87414.61	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	174246.95	2125.74	6777.2	False	13C4-PFOS	87414.61	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	89071.98	1194.46	752.1	False	13C4-PFOS	87414.61	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	411795.16	1013.55	2828.5	False	13C2-PFOA	857687.20	1250.00		N/A	N/A	✓

Sample Name	G1768-FS-D(7)	Injection Vial	42
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:06:13 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1388659.60	1246.06	4364.4	False	13C2-PFDA	1124558.06	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	177673.02	1894.23	786.1	False	13C4-PFOS	128221.95	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	171806.21	2101.73	974.7	False	13C4-PFOS	128221.95	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1189363.65	1130.32	4590.2	False	13C2-PFOA	945958.49	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1038866.51	956.15	4584.4	False	13C2-PFOA	945958.49	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1493073.51	1093.98	4306.2	False	13C2-PFOA	945958.49	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	817140.45	661.49	4153.8	False	13C2-PFOA	945958.49	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1179458.85	1175.39	5575.3	False	13C2-PFDA	1124558.06	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	1144890.34	1293.70	5132.1	False	13C2-PFDA	1124558.06	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.04	1191168.89	1182.57	3840.8	False	13C2-PFDA	1124558.06	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	268698.28	1823.86	38773.5	False	13C4-PFOS	128221.95	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	203102.93	1689.20	15008.6	False	13C4-PFOS	128221.95	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	133486.17	1220.36	912.5	False	13C4-PFOS	128221.95	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	380103.80	848.24	6717.2	False	13C2-PFOA	945958.49	1250.00		N/A	N/A	✓

Sample Name	G1768-FS-D(9)	Injection Vial	43
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:16:41 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1323777.58	1209.48	4892.4	False	13C2-PFDA	1104435.77	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.14	158944.34	1283.92	1175.9	False	13C4-PFOS	169231.80	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	174261.74	1615.18	1149.8	False	13C4-PFOS	169231.80	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	1230334.41	1160.00	6343.4	False	13C2-PFOA	953502.77	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	1182511.14	1079.74	8321.9	False	13C2-PFOA	953502.77	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1567005.23	1139.06	6579.0	False	13C2-PFOA	953502.77	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	1086971.32	872.96	5778.8	False	13C2-PFOA	953502.77	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1243801.35	1262.10	4745.0	False	13C2-PFDA	1104435.77	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1105695.17	1272.18	2609.3	False	13C2-PFDA	1104435.77	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1230644.02	1244.02	4217.6	False	13C2-PFDA	1104435.77	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	275082.17	1414.72	5521.8	False	13C4-PFOS	169231.80	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	216129.87	1361.95	3629.7	False	13C4-PFOS	169231.80	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	173402.40	1201.13	1177.3	False	13C4-PFOS	169231.80	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	400103.63	885.81	8428.0	False	13C2-PFOA	953502.77	1250.00		N/A	N/A	✓

Sample Name	G1773-FS(0)	Injection Vial	45
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:37:38 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	781456.10	819.75	3036.9	False	13C2-PFDA	961938.58	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	118997.65	2852.50	1248.3	False	13C4-PFOS	57027.83	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	101922.83	2803.40	986.4	False	13C4-PFOS	57027.83	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	297898.23	635.78	697.9	False	13C2-PFOA	421230.61	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	208498.06	430.94	741.5	False	13C2-PFOA	421230.61	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	413275.51	680.02	858.5	False	13C2-PFOA	421230.61	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	263900.14	479.75	798.6	False	13C2-PFOA	421230.61	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	832955.15	970.41	3635.7	False	13C2-PFDA	961938.58	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	714939.41	944.44	3590.9	False	13C2-PFDA	961938.58	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.01	336704.09	390.78	3316.1	False	13C2-PFDA	961938.58	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	134476.27	2052.33	1527.7	False	13C4-PFOS	57027.83	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	52491.20	981.58	280.4	False	13C4-PFOS	57027.83	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	48042.17	987.53	206.1	False	13C4-PFOS	57027.83	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	272046.87	1363.37	960.7	False	13C2-PFOA	421230.61	1250.00		N/A	N/A	✓

Sample Name	G1773-FS-D(3)	Injection Vial	46
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:48:07 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1192061.34	1222.60	3968.2	False	13C2-PFDA	983873.03	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	144623.08	1636.70	951.2	False	13C4-PFOS	120793.29	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	143236.09	1859.99	1350.6	False	13C4-PFOS	120793.29	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	716751.44	845.96	1451.3	False	13C2-PFOA	761688.07	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	660492.81	754.97	1812.9	False	13C2-PFOA	761688.07	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	964283.20	877.46	2187.3	False	13C2-PFOA	761688.07	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	699391.22	703.14	1966.7	False	13C2-PFOA	761688.07	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1103643.50	1257.11	4046.3	False	13C2-PFDA	983873.03	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	930122.49	1201.31	2636.1	False	13C2-PFDA	983873.03	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.04	987797.14	1120.89	3570.2	False	13C2-PFDA	983873.03	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	222743.20	1604.91	2878.4	False	13C4-PFOS	120793.29	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	135456.83	1195.88	849.2	False	13C4-PFOS	120793.29	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	127357.35	1235.94	530.9	False	13C4-PFOS	120793.29	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	311341.93	862.88	1230.8	False	13C2-PFOA	761688.07	1250.00		N/A	N/A	✓

Sample Name	G1773-FS-D(5)	Injection Vial	47
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:58:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1283812.84	1234.88	3555.3	False	13C2-PFDA	1049063.12	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	146939.19	1316.86	1010.1	False	13C4-PFOS	152535.51	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	156947.56	1613.93	856.5	False	13C4-PFOS	152535.51	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	952255.55	1083.61	2205.9	False	13C2-PFOA	790019.80	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	923141.60	1017.34	3090.8	False	13C2-PFOA	790019.80	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1279505.82	1122.54	2662.4	False	13C2-PFOA	790019.80	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1012552.60	981.47	5645.6	False	13C2-PFOA	790019.80	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1170015.16	1249.89	3188.3	False	13C2-PFDA	1049063.12	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	1061851.75	1286.22	5193.7	False	13C2-PFDA	1049063.12	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	1096165.42	1166.57	3362.0	False	13C2-PFDA	1049063.12	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	255016.73	1455.08	3676.2	False	13C4-PFOS	152535.51	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	183049.26	1279.75	1182.9	False	13C4-PFOS	152535.51	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	167260.04	1285.40	860.1	False	13C4-PFOS	152535.51	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	333524.77	891.21	1788.8	False	13C2-PFOA	790019.80	1250.00		N/A	N/A	✓



Sample Name	G1774-FS(0)	Injection Vial	50
Sample ID	CBD-AOA-EB01-101920-GW	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:30:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1413925.58	1135.16	5356.8	False	13C2-PFDA	1256881.44	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	187075.62	1372.07	1139.0	False	13C4-PFOS	186387.08	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	166636.79	1402.35	1112.3	False	13C4-PFOS	186387.08	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1070164.87	856.79	4051.5	False	13C2-PFOA	1122878.50	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1175802.40	911.67	7562.7	False	13C2-PFOA	1122878.50	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1466449.13	905.18	1621709.9	False	13C2-PFOA	1122878.50	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1310462.36	893.69	5094.9	False	13C2-PFOA	1122878.50	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	1319781.33	1176.77	11083.0	False	13C2-PFDA	1256881.44	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	1096085.53	1108.16	3631.9	False	13C2-PFDA	1256881.44	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1278994.33	1136.08	3909.0	False	13C2-PFDA	1256881.44	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	333420.18	1556.91	5313.0	False	13C4-PFOS	186387.08	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	214347.73	1226.40	2795.4	False	13C4-PFOS	186387.08	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	190656.85	1199.09	957.3	False	13C4-PFOS	186387.08	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	405164.57	761.71	2934.1	False	13C2-PFOA	1122878.50	1250.00		N/A	N/A	✓

Sample Name	G1775-FS(0)	Injection Vial	51
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:40:29 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1198955.64	1026.20	5003.0	False	13C2-PFDA	1178955.00	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	165334.26	1805.06	1539.2	False	13C4-PFOS	125212.07	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	155772.83	1951.40	1519.7	False	13C4-PFOS	125212.07	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	635854.39	747.43	1749.2	False	13C2-PFOA	764790.45	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	635079.04	722.97	1410.8	False	13C2-PFOA	764790.45	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1041103.01	943.52	1726.0	False	13C2-PFOA	764790.45	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	656761.43	657.60	2344.9	False	13C2-PFOA	764790.45	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1043010.12	991.46	3534.8	False	13C2-PFDA	1178955.00	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	886101.47	955.08	2784.5	False	13C2-PFDA	1178955.00	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1062715.56	1006.37	4199.6	False	13C2-PFDA	1178955.00	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	194696.59	1353.32	2850.6	False	13C4-PFOS	125212.07	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	156498.84	1332.89	742.9	False	13C4-PFOS	125212.07	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	110919.64	1038.43	471.5	False	13C4-PFOS	125212.07	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	296013.77	817.07	2640.7	False	13C2-PFOA	764790.45	1250.00		N/A	N/A	✓

Sample Name	G1775-FS-D(3)	Injection Vial	52
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:50:57 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1321264.30	1144.10	5307.4	False	13C2-PFDA	1165332.07	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	172021.15	1231.89	1300.9	False	13C4-PFOS	190890.00	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	170257.55	1399.02	1193.8	False	13C4-PFOS	190890.00	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1046186.91	1053.46	3500.6	False	13C2-PFOA	892785.89	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1116950.60	1089.24	2850.1	False	13C2-PFOA	892785.89	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1334826.76	1036.28	3157.6	False	13C2-PFOA	892785.89	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1132518.93	971.39	4357.4	False	13C2-PFOA	892785.89	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1230114.50	1182.98	4234.0	False	13C2-PFDA	1165332.07	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	1075144.68	1172.39	3241.8	False	13C2-PFDA	1165332.07	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1181762.59	1132.18	4688.2	False	13C2-PFDA	1165332.07	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	251796.91	1148.04	3807.9	False	13C4-PFOS	190890.00	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	193037.52	1078.42	1100.6	False	13C4-PFOS	190890.00	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	171162.16	1051.09	810.4	False	13C4-PFOS	190890.00	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	310833.56	734.97	3314.8	False	13C2-PFOA	892785.89	1250.00		N/A	N/A	✓

Sample Name	G1769-FS(0)	Injection Vial	2
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:32:48 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1087387.52	1256.62	3408.3	False	13C2-PFDA	873183.63	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	124238.89	5707.54	746.5	False	13C4-PFOS	29756.56	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	123781.59	6524.89	1206.5	False	13C4-PFOS	29756.56	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	211300.86	553.51	752.5	False	13C2-PFOA	343191.27	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	150735.23	382.40	634.7	False	13C2-PFOA	343191.27	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	212064.94	428.28	855.3	False	13C2-PFOA	343191.27	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	153103.33	341.62	1709.6	False	13C2-PFOA	343191.27	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	846267.93	1086.14	3085.1	False	13C2-PFDA	873183.63	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	852538.01	1240.68	3099.3	False	13C2-PFDA	873183.63	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	939041.36	1200.65	3904.2	False	13C2-PFDA	873183.63	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	106933.78	3127.67	1476.5	False	13C4-PFOS	29756.56	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	32326.66	1158.53	239.6	False	13C4-PFOS	29756.56	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	21171.83	834.05	167.4	False	13C4-PFOS	29756.56	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	322998.80	1986.81	1979.6	False	13C2-PFOA	343191.27	1250.00		N/A	N/A	✓

Sample Name	G1769-FS-D(3)	Injection Vial	3
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:43:16 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1183786.15	1253.13	2834.0	False	13C2-PFDA	953236.08	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	146673.72	2669.26	1054.2	False	13C4-PFOS	75116.52	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	152253.24	3179.30	951.4	False	13C4-PFOS	75116.52	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	614185.31	1046.92	1946.4	False	13C2-PFOA	527404.16	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	490840.10	810.28	2675.4	False	13C2-PFOA	527404.16	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	654379.18	859.97	1647.6	False	13C2-PFOA	527404.16	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	412908.79	599.53	5640.8	False	13C2-PFOA	527404.16	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1060838.90	1247.19	8374.0	False	13C2-PFDA	953236.08	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	966933.75	1288.99	2931.7	False	13C2-PFDA	953236.08	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1086126.02	1272.08	3509.7	False	13C2-PFDA	953236.08	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	221822.82	2570.16	4008.8	False	13C4-PFOS	75116.52	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	95253.86	1352.31	884.6	False	13C4-PFOS	75116.52	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	73919.18	1153.55	368.7	False	13C4-PFOS	75116.52	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	387911.48	1552.67	4032.8	False	13C2-PFOA	527404.16	1250.00		N/A	N/A	✓

Sample Name	G1769-FS-D(7)	Injection Vial	5
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:04:16 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	3.54	1328098.25	1211.12	3198.9	False	13C2-PFDA	1106544.88	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.08	179551.94	1612.69	982.9	False	13C4-PFOS	152199.89	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.25	186392.18	1920.94	1152.7	False	13C4-PFOS	152199.89	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	1123810.66	1115.57	4549.3	False	13C2-PFOA	905635.67	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.87	1051720.48	1011.07	5167.3	False	13C2-PFOA	905635.67	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.23	1292924.08	989.51	6137.3	False	13C2-PFOA	905635.67	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.59	1029809.93	870.76	3961.6	False	13C2-PFOA	905635.67	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.94	1215333.85	1230.86	3922.1	False	13C2-PFDA	1106544.88	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.26	1120595.44	1286.86	2826.9	False	13C2-PFDA	1106544.88	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.01	1253183.10	1264.39	3345.3	False	13C2-PFDA	1106544.88	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.30	294153.09	1682.08	8078.0	False	13C4-PFOS	152199.89	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.88	193076.20	1352.83	4850.3	False	13C4-PFOS	152199.89	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.59	161863.12	1246.66	945.7	False	13C4-PFOS	152199.89	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.64	394218.87	918.91	4536.5	False	13C2-PFOA	905635.67	1250.00		N/A	N/A	✓

Sample Name	G1769-FS-D(9)	Injection Vial	6
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:14:44 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1398087.19	1262.61	5269.9	False	13C2-PFDA	1117350.37	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	187010.88	1337.60	1035.4	False	13C4-PFOS	191124.23	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.26	182765.82	1499.96	1080.4	False	13C4-PFOS	191124.23	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1172206.17	1135.32	4988.9	False	13C2-PFOA	928200.52	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1155184.87	1083.54	13762.4	False	13C2-PFOA	928200.52	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1497776.04	1118.42	10734.9	False	13C2-PFOA	928200.52	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1257158.74	1037.16	2934.6	False	13C2-PFOA	928200.52	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	1276461.02	1280.27	3778.1	False	13C2-PFDA	1117350.37	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	1211474.18	1377.77	3429.0	False	13C2-PFDA	1117350.37	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.03	1238701.88	1237.69	4413.1	False	13C2-PFDA	1117350.37	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	278858.12	1269.86	8718.1	False	13C4-PFOS	191124.23	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	213536.98	1191.48	7628.8	False	13C4-PFOS	191124.23	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	190201.16	1166.58	1663.0	False	13C4-PFOS	191124.23	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	410013.26	932.50	153345.3	False	13C2-PFOA	928200.52	1250.00		N/A	N/A	✓



Sample Name	G1769-FS-D(11)	Injection Vial	7
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:25:14 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1412096.55	1199.72	3323.5	False	13C2-PFDA	1187703.32	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.09	179109.25	1293.98	1309.7	False	13C4-PFOS	189219.20	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.25	181432.02	1504.00	1326.3	False	13C4-PFOS	189219.20	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	1269217.48	1230.64	4444.8	False	13C2-PFOA	927174.31	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.87	1168645.22	1097.38	514262.3	False	13C2-PFOA	927174.31	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.23	1549308.98	1158.18	10066.4	False	13C2-PFOA	927174.31	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.60	1283726.84	1060.25	4528.6	False	13C2-PFOA	927174.31	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.95	1279389.92	1207.19	3846.4	False	13C2-PFDA	1187703.32	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.27	1217597.78	1302.71	4317.5	False	13C2-PFDA	1187703.32	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	1228848.95	1155.12	4420.3	False	13C2-PFDA	1187703.32	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	275794.79	1268.56	24172.8	False	13C4-PFOS	189219.20	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.88	222366.58	1253.24	44535.8	False	13C4-PFOS	189219.20	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.59	185266.64	1147.75	1288.4	False	13C4-PFOS	189219.20	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.64	402705.53	916.89	3939.8	False	13C2-PFOA	927174.31	1250.00		N/A	N/A	✓

Sample Name	G1770MS-FS(0)	Injection Vial	10
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:56:39 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1071475.19	1408.18	2705.8	False	13C2-PFDA	767797.94	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	130740.47	8260.27	1273.9	False	13C4-PFOS	21636.65	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	112696.08	8169.94	844.8	False	13C4-PFOS	21636.65	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	199434.74	515.13	550.6	False	13C2-PFOA	348052.37	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	128783.05	322.14	530.0	False	13C2-PFOA	348052.37	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	173411.77	345.33	768.1	False	13C2-PFOA	348052.37	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	103042.88	226.71	603.8	False	13C2-PFOA	348052.37	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	695925.54	1015.78	2411.1	False	13C2-PFDA	767797.94	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	740698.88	1225.88	2123.7	False	13C2-PFDA	767797.94	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.03	1028433.40	1495.43	4164.0	False	13C2-PFDA	767797.94	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	89641.86	3605.87	1449.3	False	13C4-PFOS	21636.65	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	27941.03	1377.15	263.0	False	13C4-PFOS	21636.65	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	15805.13	856.29	163.1	False	13C4-PFOS	21636.65	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	281629.13	1708.14	1955.7	False	13C2-PFOA	348052.37	1250.00		N/A	N/A	✓

Sample Name	G1770MS-FS-D(3)	Injection Vial	11
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:07:07 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1229098.94	1406.09	5474.6	False	13C2-PFDA	882060.30	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	157329.55	3753.43	1185.6	False	13C4-PFOS	57300.21	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	145400.00	3980.23	1238.5	False	13C4-PFOS	57300.21	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	561682.95	975.80	1756.3	False	13C2-PFOA	517474.01	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	478769.40	805.52	1787.3	False	13C2-PFOA	517474.01	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	636866.74	853.02	2368.3	False	13C2-PFOA	517474.01	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	379284.06	561.27	1419.1	False	13C2-PFOA	517474.01	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1002908.70	1274.22	3182.7	False	13C2-PFDA	882060.30	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	998811.03	1438.93	3334.5	False	13C2-PFDA	882060.30	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1198821.21	1517.37	3768.8	False	13C2-PFDA	882060.30	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	214878.29	3263.81	4856.0	False	13C4-PFOS	57300.21	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	76683.45	1427.16	582.7	False	13C4-PFOS	57300.21	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	62080.98	1270.04	458.2	False	13C4-PFOS	57300.21	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	418532.60	1707.39	2939.9	False	13C2-PFOA	517474.01	1250.00		N/A	N/A	✓

Sample Name	G1770MS-FS-D(7)	Injection Vial	13
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:28:05 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1412925.90	1356.23	4434.3	False	13C2-PFDA	1051259.57	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.08	164329.50	1618.18	883.1	False	13C4-PFOS	138823.57	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.25	164721.74	1861.18	1089.0	False	13C4-PFOS	138823.57	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	1043931.10	1065.46	3321.0	False	13C2-PFOA	880829.91	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.87	983506.15	972.12	4778.6	False	13C2-PFOA	880829.91	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.23	1280729.00	1007.78	3414.9	False	13C2-PFOA	880829.91	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.59	942192.04	819.11	3536.3	False	13C2-PFOA	880829.91	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.94	1224896.59	1305.78	4503.1	False	13C2-PFDA	1051259.57	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.26	1109936.39	1341.66	3581.7	False	13C2-PFDA	1051259.57	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	1157034.13	1228.77	4015.1	False	13C2-PFDA	1051259.57	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	292447.20	1833.47	6616.3	False	13C4-PFOS	138823.57	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	185495.38	1424.95	2506.2	False	13C4-PFOS	138823.57	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.59	142834.05	1206.10	1093.8	False	13C4-PFOS	138823.57	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	407130.86	975.74	2883.4	False	13C2-PFOA	880829.91	1250.00		N/A	N/A	✓

Sample Name	G1770MS-FS-D(9)	Injection Vial	14
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:38:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1368458.51	1300.44	4755.3	False	13C2-PFDA	1061859.16	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	168206.42	1372.63	1134.4	False	13C4-PFOS	167518.20	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	163038.46	1526.61	1085.4	False	13C4-PFOS	167518.20	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1207382.55	1139.31	6034.4	False	13C2-PFOA	952711.70	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1073721.03	981.22	22819.0	False	13C2-PFOA	952711.70	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1428553.32	1039.28	4701.9	False	13C2-PFOA	952711.70	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1174637.60	944.15	19711.2	False	13C2-PFOA	952711.70	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1194771.24	1260.96	3306.3	False	13C2-PFDA	1061859.16	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1134680.97	1357.88	3041.0	False	13C2-PFDA	1061859.16	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1223704.71	1286.61	4522.2	False	13C2-PFDA	1061859.16	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	272386.11	1415.18	14159.4	False	13C4-PFOS	167518.20	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	216452.81	1377.94	2704.5	False	13C4-PFOS	167518.20	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	179720.97	1257.63	1048.9	False	13C4-PFOS	167518.20	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	424842.66	941.36	15602.5	False	13C2-PFOA	952711.70	1250.00		N/A	N/A	✓

Sample Name	G1770MS-FS-D(11)	Injection Vial	15
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:49:03 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1411144.08	1286.40	3555.3	False	13C2-PFDA	1106927.50	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	190473.37	1302.31	1107.2	False	13C4-PFOS	199937.82	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	186204.69	1460.82	969.0	False	13C4-PFOS	199937.82	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1253294.37	1163.68	7089.9	False	13C2-PFOA	968230.22	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1175434.78	1056.95	11211.0	False	13C2-PFOA	968230.22	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1617788.47	1158.09	187015.8	False	13C2-PFOA	968230.22	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1393021.43	1101.73	960.9	False	13C2-PFOA	968230.22	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1407612.35	1425.10	4389.3	False	13C2-PFDA	1106927.50	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	1205038.51	1383.36	4550.2	False	13C2-PFDA	1106927.50	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1275719.98	1286.68	3959.1	False	13C2-PFDA	1106927.50	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	293744.93	1278.69	8177.9	False	13C4-PFOS	199937.82	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	236386.13	1260.83	4384.1	False	13C4-PFOS	199937.82	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	211047.67	1237.37	1405.3	False	13C4-PFOS	199937.82	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	424329.26	925.16	6826.9	False	13C2-PFOA	968230.22	1250.00		N/A	N/A	✓

Sample Name	G1771MSD-FS(0)	Injection Vial	18
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:21:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	3.54	1099357.77	1293.73	3459.4	False	13C2-PFDA	857469.03	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.06	160972.92	7219.75	1156.6	False	13C4-PFOS	30479.27	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.23	122384.38	6298.27	849.0	False	13C4-PFOS	30479.27	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	213751.31	523.22	591.5	False	13C2-PFOA	367268.72	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.87	143660.70	340.56	569.3	False	13C2-PFOA	367268.72	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.23	179976.89	339.65	817.2	False	13C2-PFOA	367268.72	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.58	124910.03	260.44	813.1	False	13C2-PFOA	367268.72	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.92	793410.54	1036.96	2845.2	False	13C2-PFDA	857469.03	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.24	826874.22	1225.39	2838.1	False	13C2-PFDA	857469.03	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	946259.97	1232.05	5225.4	False	13C2-PFDA	857469.03	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	96745.17	2762.57	2054.8	False	13C4-PFOS	30479.27	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.88	32627.11	1141.57	223.1	False	13C4-PFOS	30479.27	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.57	16984.22	653.22	118.6	False	13C4-PFOS	30479.27	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	338451.02	1945.37	1873.3	False	13C2-PFOA	367268.72	1250.00		N/A	N/A	✓

Sample Name	G1771MSD-FS-D(3)	Injection Vial	19
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:31:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1233708.74	1306.47	3283.1	False	13C2-PFDA	952876.59	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.10	160060.53	3418.96	1231.1	False	13C4-PFOS	63997.72	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.26	136539.35	3346.52	985.5	False	13C4-PFOS	63997.72	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	599490.93	994.02	1886.6	False	13C2-PFOA	542180.85	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	477470.05	766.72	1929.4	False	13C2-PFOA	542180.85	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	604526.31	772.81	1823.3	False	13C2-PFOA	542180.85	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	403362.30	569.70	1974.7	False	13C2-PFOA	542180.85	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.95	1110477.24	1306.04	4000.5	False	13C2-PFDA	952876.59	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.27	984420.78	1312.80	3457.3	False	13C2-PFDA	952876.59	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	3.98	1212765.97	1420.94	3749.0	False	13C2-PFDA	952876.59	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	222242.28	3022.39	5067.1	False	13C4-PFOS	63997.72	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	86510.15	1441.55	898.1	False	13C4-PFOS	63997.72	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	63187.34	1157.39	438.0	False	13C4-PFOS	63997.72	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	402484.12	1567.10	3101.5	False	13C2-PFOA	542180.85	1250.00		N/A	N/A	✓

Sample Name	G1771MSD-FS-D(7)	Injection Vial	21
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:52:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1327017.40	1322.27	4159.6	False	13C2-PFDA	1012700.90	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.08	176479.94	1583.70	1035.5	False	13C4-PFOS	152333.97	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.25	169763.92	1748.03	1039.9	False	13C4-PFOS	152333.97	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1110461.47	1135.46	3737.6	False	13C2-PFOA	879207.37	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	1041385.34	1031.23	6053.8	False	13C2-PFOA	879207.37	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.23	1303887.54	1027.89	3606.6	False	13C2-PFOA	879207.37	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.59	891236.20	776.24	54032.9	False	13C2-PFOA	879207.37	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.93	1197217.49	1324.87	3222.8	False	13C2-PFDA	1012700.90	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.26	1116407.01	1400.86	3172.1	False	13C2-PFDA	1012700.90	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1208747.58	1332.57	3803.9	False	13C2-PFDA	1012700.90	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	284360.24	1624.65	7491.7	False	13C4-PFOS	152333.97	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	194414.44	1361.01	2729.6	False	13C4-PFOS	152333.97	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.58	157147.98	1209.28	1016.1	False	13C4-PFOS	152333.97	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	418863.89	1005.71	6072.2	False	13C2-PFOA	879207.37	1250.00		N/A	N/A	✓

Sample Name	G1771MSD-FS-D(9)	Injection Vial	22
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:03:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	3.52	1417001.95	1303.70	4654.6	False	13C2-PFDA	1096774.84	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.08	170232.21	1317.57	947.9	False	13C4-PFOS	176620.27	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.24	185122.84	1644.07	1108.0	False	13C4-PFOS	176620.27	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1148037.06	1091.15	6457.3	False	13C2-PFOA	945861.87	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1091645.31	1004.82	7152.1	False	13C2-PFOA	945861.87	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1495602.23	1095.94	35075.4	False	13C2-PFOA	945861.87	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.60	1221128.55	988.62	48147.1	False	13C2-PFOA	945861.87	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.94	1228750.51	1255.53	4921.2	False	13C2-PFDA	1096774.84	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.25	1243470.83	1440.69	3267.0	False	13C2-PFDA	1096774.84	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	3.97	1252837.44	1275.30	3731.7	False	13C2-PFDA	1096774.84	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	277595.06	1367.92	8118.0	False	13C4-PFOS	176620.27	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	234370.01	1415.11	2502.6	False	13C4-PFOS	176620.27	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.59	175312.00	1163.55	1279.8	False	13C4-PFOS	176620.27	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	409584.39	914.13	5968.7	False	13C2-PFOA	945861.87	1250.00		N/A	N/A	✓

Sample Name	G1771MSD-FS-D(11)	Injection Vial	23
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:13:41 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1418914.80	1292.04	4459.9	False	13C2-PFDA	1108166.04	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	181021.80	1190.95	1110.3	False	13C4-PFOS	207783.30	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	183202.71	1383.00	1102.5	False	13C4-PFOS	207783.30	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1281503.73	1221.45	7452.4	False	13C2-PFOA	943197.26	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1226139.69	1131.81	9881.8	False	13C2-PFOA	943197.26	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1560492.27	1146.72	10211.7	False	13C2-PFOA	943197.26	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1288033.05	1045.73	3840.9	False	13C2-PFOA	943197.26	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1248316.90	1262.42	3572.5	False	13C2-PFDA	1108166.04	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1156578.77	1326.24	2948.9	False	13C2-PFDA	1108166.04	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1273728.88	1283.24	4186.0	False	13C2-PFDA	1108166.04	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	268596.85	1125.07	4672.9	False	13C4-PFOS	207783.30	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	215509.85	1106.08	10043.3	False	13C4-PFOS	207783.30	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	203740.87	1149.43	1509.7	False	13C4-PFOS	207783.30	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	399391.79	893.90	5020.7	False	13C2-PFOA	943197.26	1250.00		N/A	N/A	✓

Sample Name	G1772-FS(0)	Injection Vial	26
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:45:09 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	343122.78	2079.17	2247.8	False	13C2-PFDA	166526.68	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	22236.12	2209.97	212.9	False	13C4-PFOS	13754.54	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	27592.32	3146.60	330.6	False	13C4-PFOS	13754.54	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	117534.26	629.48	290.1	False	13C2-PFOA	167856.89	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.87	58153.16	301.63	255.8	False	13C2-PFOA	167856.89	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	90657.96	374.34	340.3	False	13C2-PFOA	167856.89	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.57	17646.10	80.50	181.6	False	13C2-PFOA	167856.89	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	129419.18	870.96	539.4	False	13C2-PFDA	166526.68	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	311866.11	2379.78	1174.2	False	13C2-PFDA	166526.68	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.01	166907.11	1118.99	3703.5	False	13C2-PFDA	166526.68	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.30	81187.00	5137.23	845.8	False	13C4-PFOS	13754.54	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.88	17180.42	1332.04	92.5	False	13C4-PFOS	13754.54	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.91	4686.04	399.37	18.1	False	13C4-PFOS	13754.54	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.64	220690.00	2775.46	755.9	False	13C2-PFOA	167856.89	1250.00		N/A	N/A	✓

Sample Name	G1772-FS-D(3)	Injection Vial	27
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:55:37 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1141259.80	1849.98	4340.4	False	13C2-PFDA	622504.27	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.09	128820.72	6623.52	872.7	False	13C4-PFOS	26587.10	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.25	126898.86	7486.64	880.0	False	13C4-PFOS	26587.10	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	675980.96	1159.72	1549.6	False	13C2-PFOA	524011.45	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	508636.66	845.09	2031.8	False	13C2-PFOA	524011.45	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	707882.99	936.31	1551.6	False	13C2-PFOA	524011.45	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.60	144733.11	211.51	922.2	False	13C2-PFOA	524011.45	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.95	702720.93	1265.09	2936.1	False	13C2-PFDA	622504.27	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.25	915924.32	1869.69	1244.9	True	13C2-PFDA	622504.27	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	1027496.51	1842.78	3380.2	True	13C2-PFDA	622504.27	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	236751.50	7750.16	2536.9	False	13C4-PFOS	26587.10	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	96253.54	3860.77	670.9	False	13C4-PFOS	26587.10	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.60	22168.21	977.41	186.6	False	13C4-PFOS	26587.10	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	411159.79	1656.38	1700.7	False	13C2-PFOA	524011.45	1250.00		N/A	N/A	✓

Sample Name	G1772-FS-D(7)	Injection Vial	29
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:16:35 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1276838.09	1426.73	3715.9	False	13C2-PFDA	903066.01	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	148925.67	2524.10	939.4	False	13C4-PFOS	80656.24	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	160391.50	3119.20	999.8	False	13C4-PFOS	80656.24	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	1105358.65	1187.56	2729.1	False	13C2-PFOA	836771.68	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	1084461.83	1128.35	3807.6	False	13C2-PFOA	836771.68	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1255922.75	1040.29	2787.2	False	13C2-PFOA	836771.68	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	481717.59	440.84	2496.7	False	13C2-PFOA	836771.68	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	1077955.27	1337.71	4427.6	False	13C2-PFDA	903066.01	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	1037109.70	1459.35	3809.9	False	13C2-PFDA	903066.01	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.07	1162689.27	1437.41	3971.0	False	13C2-PFDA	903066.01	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	297679.80	3212.18	4748.2	False	13C4-PFOS	80656.24	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	201173.02	2659.87	2242.5	False	13C4-PFOS	80656.24	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	77179.12	1121.70	512.1	False	13C4-PFOS	80656.24	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	384458.91	969.92	2175.6	False	13C2-PFOA	836771.68	1250.00		N/A	N/A	✓

Sample Name	G1772-FS-D(9)	Injection Vial	30
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:27:04 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1337473.71	1259.60	3993.9	False	13C2-PFDA	1071466.33	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	174935.21	1882.99	1018.2	False	13C4-PFOS	126999.84	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	157053.07	1939.74	1080.9	False	13C4-PFOS	126999.84	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1257728.92	1240.49	4793.7	False	13C2-PFOA	911486.57	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1175876.35	1123.18	4759.4	False	13C2-PFOA	911486.57	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1519137.72	1155.17	5923.2	False	13C2-PFOA	911486.57	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	775505.43	651.53	2611.2	False	13C2-PFOA	911486.57	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	1238542.52	1295.43	19377.8	False	13C2-PFDA	1071466.33	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	1118116.88	1326.06	3713.7	False	13C2-PFDA	1071466.33	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.04	1216416.81	1267.48	3570.5	False	13C2-PFDA	1071466.33	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	291179.40	1995.47	4846.5	False	13C4-PFOS	126999.84	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	233399.75	1959.86	4626.6	False	13C4-PFOS	126999.84	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	121584.28	1122.25	993.2	False	13C4-PFOS	126999.84	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	430303.64	996.59	4761.2	False	13C2-PFOA	911486.57	1250.00		N/A	N/A	✓

Sample Name	G1772-FS-D(11)	Injection Vial	31
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:37:33 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1370100.05	1277.78	4040.4	False	13C2-PFDA	1081985.14	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	181798.92	1593.93	987.8	False	13C4-PFOS	155918.39	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.30	175302.76	1763.56	973.4	False	13C4-PFOS	155918.39	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1188744.02	1208.89	5842.7	False	13C2-PFOA	884018.20	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1263403.86	1244.28	38159.6	False	13C2-PFOA	884018.20	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	1476096.49	1157.32	1781658.6	False	13C2-PFOA	884018.20	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.63	1105234.13	957.39	5182.9	False	13C2-PFOA	884018.20	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	1218696.85	1262.28	7340.0	False	13C2-PFDA	1081985.14	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	1152019.95	1352.98	4098.7	False	13C2-PFDA	1081985.14	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.03	1252745.61	1292.64	4116.6	False	13C2-PFDA	1081985.14	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	267431.31	1492.81	11196.9	False	13C4-PFOS	155918.39	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	242194.55	1656.51	104645.6	False	13C4-PFOS	155918.39	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	157891.37	1187.07	1352.9	False	13C4-PFOS	155918.39	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	396454.64	946.72	5110.4	False	13C2-PFOA	884018.20	1250.00		N/A	N/A	✓

Sample Name	G1772-FS-D(13)	Injection Vial	32
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:48:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1331634.16	1201.78	3088.5	False	13C2-PFDA	1118105.88	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.10	167867.60	1184.85	950.5	False	13C4-PFOS	193677.06	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.26	164254.07	1330.26	1026.4	False	13C4-PFOS	193677.06	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1253647.25	1216.06	6986.5	False	13C2-PFOA	926784.31	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1204304.52	1131.34	7389.3	False	13C2-PFOA	926784.31	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1655516.70	1238.10	18254.8	False	13C2-PFOA	926784.31	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1272289.73	1051.25	8342.7	False	13C2-PFOA	926784.31	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	1244667.38	1247.53	15900.3	False	13C2-PFDA	1118105.88	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.27	1241355.24	1410.80	3933.3	False	13C2-PFDA	1118105.88	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	1231658.48	1229.82	4788.7	False	13C2-PFDA	1118105.88	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	274710.41	1234.48	7716.5	False	13C4-PFOS	193677.06	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	225782.75	1243.20	5168.6	False	13C4-PFOS	193677.06	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	192022.80	1162.22	1536.5	False	13C4-PFOS	193677.06	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	391831.34	892.51	11148.4	False	13C2-PFOA	926784.31	1250.00		N/A	N/A	✓

Sample Name	G1766-FS-D(3)	Injection Vial	29
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:50:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1231523.42	1541.69	4127.6	False	13C2-PFDA	806066.81	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.13	150722.93	3820.52	950.6	False	13C4-PFOS	53930.08	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	113000.77	3286.63	1040.2	False	13C4-PFOS	53930.08	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	583441.27	1157.64	1538.2	False	13C2-PFOA	453085.15	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.90	463208.69	890.09	1690.8	False	13C2-PFOA	453085.15	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.27	580376.29	887.83	2523.4	False	13C2-PFOA	453085.15	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.64	326925.02	552.54	1874.7	False	13C2-PFOA	453085.15	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.99	858437.05	1193.49	31850.0	False	13C2-PFDA	806066.81	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.31	880165.91	1387.54	3199.1	False	13C2-PFDA	806066.81	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1124676.61	1557.73	4219.2	False	13C2-PFDA	806066.81	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	217294.66	3506.76	2898.0	False	13C4-PFOS	53930.08	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.92	98583.93	1949.41	752.3	False	13C4-PFOS	53930.08	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.63	47888.52	1040.92	413.4	False	13C4-PFOS	53930.08	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	419574.36	1954.88	1639.1	False	13C2-PFOA	453085.15	1250.00		N/A	N/A	✓

Sample Name	G1767-FS-D(3)	Injection Vial	34
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:42:31 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_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	1224721.29	1536.86	5122.7	False	13C2-PFDA	804129.80	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	158331.84	4293.88	1158.7	False	13C4-PFOS	50407.16	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	126673.28	3941.78	957.2	False	13C4-PFOS	50407.16	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.57	539880.05	1105.10	1147.5	False	13C2-PFOA	439189.82	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	434905.38	862.14	1415.9	False	13C2-PFOA	439189.82	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	581475.53	917.65	1406.4	False	13C2-PFOA	439189.82	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	314290.19	547.99	1297.4	False	13C2-PFOA	439189.82	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	839935.81	1170.58	2891.6	False	13C2-PFDA	804129.80	1250.00		N/A	N/A	✓
13C7-PFUxA	570.0 / 525.0	3.29	870097.06	1374.97	3123.6	False	13C2-PFDA	804129.80	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	1150717.05	1597.64	3966.3	False	13C2-PFDA	804129.80	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	218461.36	3771.99	2799.8	False	13C4-PFOS	50407.16	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.91	89743.79	1898.63	817.5	False	13C4-PFOS	50407.16	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	52717.97	1225.98	388.1	False	13C4-PFOS	50407.16	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	400323.94	1924.20	1902.8	False	13C2-PFOA	439189.82	1250.00		N/A	N/A	✓

Sample Name	LE58 IB	Injection Vial	8
Sample ID	IB	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:16:09 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	274577.28	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	274577.28	1162.50	PFBS	N/A	0.323	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1318483.46	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1318483.46	1250.00	PFHxA	N/A	0.061	✓
PFHpA_1	363.0 / 319.0	1.92	15513.28	< 0	55.6	True	13C4-PFHpA	1202815.08	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1202815.08	1250.00	PFHpA	N/A	0.031	
PFHxS_1	399.0 / 80.0	1.90	2367.15	< 0	28.4	False	13C3-PFHxS	232420.88	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	232420.88	1182.50	PFHxS	N/A	0.368	
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1566251.53	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1566251.53	1222.50	PFOA	N/A	0.097	✓
PFNA_1	463.0 / 419.0	2.61	8204.89	< 0	21.2	False	13C9-PFNA	1440066.11	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.64	1992.02	< 0	51.9	True	13C9-PFNA	1440066.11	1250.00	PFNA	0.243	0.334	✓
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	219371.37	1195.00	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	True	13C8-PFOS	219371.37	1195.00	PFOS	N/A	0.207	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1341767.15	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1341767.15	1250.00	PFDA	N/A	0.058	✓
PFUnA_1	563.0 / 519.0	3.30	15199.06	< 0	86.4	False	13C7-PFUnA	1270064.42	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1270064.42	1250.00	PFUnA	N/A	0.063	
PFDoA_1	613.0 / 569.0	3.60	19652.93	< 0	79.4	False	13C2-PFDoA	1520904.41	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.60	1627.14	< 0	67.7	False	13C2-PFDoA	1520904.41	1250.00	PFDoA	0.083	0.120	✓
PFTTrDA_1	663.0 / 619.0	3.85	16808.89	< 0	146.9	False	13C2-PFTTeDA	1264721.65	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.87	1258.41	< 0	76.7	False	13C2-PFTTeDA	1264721.65	1250.00	PFTTrDA	0.075	0.073	✓
PFTTeDA_1	713.0 / 669.0	4.08	24808.75	< 0	247.7	False	13C2-PFTTeDA	1264721.65	1250.00	PFTTeDA			
PFTTeDA_2	713.0 / 169.0	4.08	978.91	< 0	89.2	False	13C2-PFTTeDA	1264721.65	1250.00	PFTTeDA	0.039	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.14	7730.72	96.71	1059.7	True	d3-MeFOSAA	175143.87	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.13	6699.38	56.38	248.3	True	d3-MeFOSAA	175143.87	1250.00	NMeFOSAA	0.867	1.110	✓
NEtFOSAA_1	584.0 / 419.0	3.29	11003.64	25.82	193.9	True	d5-EtFOSAA	186132.31	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EtFOSAA	186132.31	1250.00	NEtFOSAA	N/A	0.061	
HFPO-DA_1	285.0 / 169.0	1.64	3102.32	< 0	81.8	False	13C3-HFPO-DA	415171.38	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	415171.38	1250.00	HFPO-DA	N/A	0.023	
ADONA_1	377.0 / 251.0	1.93	6646.01	< 0	180.9	False	13C3-PFHxS	232420.88	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	232420.88	1182.50	ADONA	N/A	0.014	
9Cl-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1520904.41	1250.00	9Cl-PF3ONS			
9Cl-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1520904.41	1250.00	9Cl-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.46	2000.07	< 0	28.9	False	13C2-PFDoA	1520904.41	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1520904.41	1250.00	11Cl-PF3OUdS	N/A	0.005	

Sample Name	G1768-FS-D(13)	Injection Vial	21
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:32:32 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	279787.25	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	279787.25	1162.50	PFBS	N/A	0.323	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1339242.34	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1339242.34	1250.00	PFHxA	N/A	0.061	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1302913.42	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1302913.42	1250.00	PFHpA	N/A	0.031	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	220707.61	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	220707.61	1182.50	PFHxS	N/A	0.368	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1589444.41	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1589444.41	1222.50	PFOA	N/A	0.097	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1430563.70	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1430563.70	1250.00	PFNA	N/A	0.334	✓
PFOS_1	499.0 / 80.0	2.61	8633028.44	12187.89	3087.6	False	13C8-PFOS	215268.60	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	1978190.99	13463.13	5692.4	False	13C8-PFOS	215268.60	1195.00	PFOS	0.229	0.207	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1379268.16	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1379268.16	1250.00	PFDA	N/A	0.058	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1345048.04	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1345048.04	1250.00	PFUnA	N/A	0.063	✓
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1504287.66	1250.00	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1504287.66	1250.00	PFDaA	N/A	0.120	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1343221.34	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1343221.34	1250.00	PFTrDA	N/A	0.073	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1343221.34	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1343221.34	1250.00	PFTeDA	N/A	0.056	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	199001.06	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	199001.06	1250.00	NMeFOSAA	N/A	1.110	✓
NEiFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EiFOSAA	189508.51	1250.00	NEiFOSAA			
NEiFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EiFOSAA	189508.51	1250.00	NEiFOSAA	N/A	0.061	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	433430.80	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	433430.80	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	220707.61	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	220707.61	1182.50	ADONA	N/A	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1504287.66	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1504287.66	1250.00	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1504287.66	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDaA	1504287.66	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1773-FS-D(9)	Injection Vial	22
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:43:01 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	308099.06	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	308099.06	1162.50	PFBS	N/A	0.323	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1229220.90	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1229220.90	1250.00	PFHxA	N/A	0.061	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1191882.85	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1191882.85	1250.00	PFHpA	N/A	0.031	✓
PFHxS_1	399.0 / 80.0	1.90	13376710.50	20809.37	2342.4	False	13C3-PFHxS	233497.75	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	4471298.43	19078.99	2934.0	False	13C3-PFHxS	233497.75	1182.50	PFHxS	0.334	0.368	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1526814.54	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1526814.54	1222.50	PFOA	N/A	0.097	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1310608.54	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1310608.54	1250.00	PFNA	N/A	0.334	✓
PFOS_1	499.0 / 80.0	2.61	15242378.40	20737.03	2077.3	True	13C8-PFOS	223421.84	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	4276427.03	28045.40	4547.5	False	13C8-PFOS	223421.84	1195.00	PFOS	0.281	0.207	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1388962.71	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1388962.71	1250.00	PFDA	N/A	0.058	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1332878.37	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1332878.37	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1554025.62	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1554025.62	1250.00	PFDoA	N/A	0.120	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1419839.42	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1419839.42	1250.00	PFTrDA	N/A	0.073	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1419839.42	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1419839.42	1250.00	PFTeDA	N/A	0.056	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	249234.55	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	249234.55	1250.00	NMeFOSAA	N/A	1.110	✓
NEiFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EiFOSAA	252248.77	1250.00	NEiFOSAA			
NEiFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EiFOSAA	252248.77	1250.00	NEiFOSAA	N/A	0.061	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	379812.32	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	379812.32	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	233497.75	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	233497.75	1182.50	ADONA	N/A	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1554025.62	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1554025.62	1250.00	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1554025.62	1250.00	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1554025.62	1250.00	11Cl-PF3OUdS	N/A	0.005	✓

Sample Name	G1775-FS-D(7)	Injection Vial	23
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:53:30 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	257557.63	1162.50	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFBS	257557.63	1162.50	PFBS	N/A	0.323	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1227635.52	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	True	13C5-PFHxA	1227635.52	1250.00	PFHxA	N/A	0.061	✓
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1098209.59	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	True	13C4-PFHpA	1098209.59	1250.00	PFHpA	N/A	0.031	✓
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	235778.21	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	235778.21	1182.50	PFHxS	N/A	0.368	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1507970.80	1222.50	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	True	13C8-PFOA	1507970.80	1222.50	PFOA	N/A	0.097	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1436443.32	1250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	True	13C9-PFNA	1436443.32	1250.00	PFNA	N/A	0.334	✓
PFOS_1	499.0 / 80.0	2.58	6763493.78	9567.71	1772.2	False	13C8-PFOS	214813.01	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	1268844.06	8652.77	2049.7	False	13C8-PFOS	214813.01	1195.00	PFOS	0.188	0.207	✓
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1326402.78	1250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	True	13C6-PFDA	1326402.78	1250.00	PFDA	N/A	0.058	✓
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1247271.44	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	True	13C7-PFUnA	1247271.44	1250.00	PFUnA	N/A	0.063	✓
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1456915.06	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1456915.06	1250.00	PFDoA	N/A	0.120	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1350441.87	1250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1350441.87	1250.00	PFTrDA	N/A	0.073	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1350441.87	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	True	13C2-PFTeDA	1350441.87	1250.00	PFTeDA	N/A	0.056	✓
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	227045.74	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	True	d3-MeFOSAA	227045.74	1250.00	NMeFOSAA	N/A	1.110	✓
NEiFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	True	d5-EiFOSAA	197298.76	1250.00	NEiFOSAA			
NEiFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	True	d5-EiFOSAA	197298.76	1250.00	NEiFOSAA	N/A	0.061	✓
HFPO-DA_1	285.0 / 169.0	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	372119.86	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	N/A	N/A	N/A	N/A	True	13C3-HFPO-DA	372119.86	1250.00	HFPO-DA	N/A	0.023	✓
ADONA_1	377.0 / 251.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	235778.21	1182.50	ADONA			
ADONA_2	377.0 / 85.0	N/A	N/A	N/A	N/A	True	13C3-PFHxS	235778.21	1182.50	ADONA	N/A	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1456915.06	1250.00	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1456915.06	1250.00	9CI-PF3ONS	N/A	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1456915.06	1250.00	11Cl-pf3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	N/A	N/A	N/A	N/A	True	13C2-PFDoA	1456915.06	1250.00	11Cl-pf3OUdS	N/A	0.005	✓

Sample Name	LE58 IB	Injection Vial	8
Sample ID	IB	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:16:09 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1520904.41	1384.38	3474.7	False	13C2-PFDA	1061311.15	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	174166.45	1212.08	1393.2	False	13C4-PFOS	199490.68	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.29	185547.23	1378.89	1416.2	False	13C4-PFOS	199490.68	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1318483.46	1366.33	12840.4	False	13C2-PFOA	786349.60	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1202815.08	1277.91	104394476.8	False	13C2-PFOA	786349.60	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	1566251.53	1298.34	6596.3	False	13C2-PFOA	786349.60	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	1440066.11	1274.96	3562.4	False	13C2-PFOA	786349.60	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.98	1341767.15	1346.90	3709.7	False	13C2-PFDA	1061311.15	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.30	1270064.42	1429.66	3545.0	False	13C2-PFDA	1061311.15	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.08	1264721.65	1318.81	4622.1	False	13C2-PFDA	1061311.15	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	274577.28	1162.53	28487.3	False	13C4-PFOS	199490.68	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	232420.88	1222.96	3355.2	False	13C4-PFOS	199490.68	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	219371.37	1236.20	1377.0	False	13C4-PFOS	199490.68	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	415171.38	1205.37	56142.3	False	13C2-PFOA	786349.60	1250.00		N/A	N/A	✓

Sample Name	G1768-FS-D(13)	Injection Vial	21
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:32:32 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1504287.66	1162.07	4132.2	False	13C2-PFDA	1250537.19	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	196019.54	1098.85	1301.8	False	13C4-PFOS	247656.19	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	189404.56	1133.81	1468.4	False	13C4-PFOS	247656.19	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	1339242.34	1164.15	9025.6	False	13C2-PFOA	937448.61	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	1302913.42	1161.14	8545.2	False	13C2-PFOA	937448.61	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1589444.41	1105.20	2435.1	False	13C2-PFOA	937448.61	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1430563.70	1062.40	3526.8	False	13C2-PFOA	937448.61	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	1379268.16	1175.04	973.1	False	13C2-PFDA	1250537.19	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	1345048.04	1284.96	4141.1	False	13C2-PFDA	1250537.19	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	1343221.34	1188.72	4113.5	False	13C2-PFDA	1250537.19	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	279787.25	954.20	41125.8	False	13C4-PFOS	247656.19	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	220707.61	935.46	86893.5	False	13C4-PFOS	247656.19	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.61	215268.60	977.15	1327.7	False	13C4-PFOS	247656.19	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	433430.80	1055.56	12184.4	False	13C2-PFOA	937448.61	1250.00		N/A	N/A	✓

Sample Name	G1773-FS-D(9)	Injection Vial	22
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:43:01 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1554025.62	1069.51	4515.1	False	13C2-PFDA	1403692.91	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	248615.91	1570.38	1061.3	False	13C4-PFOS	219793.05	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	252446.27	1702.76	1529.6	False	13C4-PFOS	219793.05	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	1229220.90	990.74	2838.3	False	13C2-PFOA	1011034.31	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	1191882.85	984.88	3544.2	False	13C2-PFOA	1011034.31	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1526814.54	984.38	3489.3	False	13C2-PFOA	1011034.31	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1310608.54	902.48	3218.1	False	13C2-PFOA	1011034.31	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	1388962.71	1054.19	4781.3	False	13C2-PFDA	1403692.91	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	1332878.37	1134.40	4031.5	False	13C2-PFDA	1403692.91	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.04	1419839.42	1119.43	4860.7	False	13C2-PFDA	1403692.91	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	308099.06	1183.97	4873.9	False	13C4-PFOS	219793.05	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	233497.75	1115.13	1257.6	False	13C4-PFOS	219793.05	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.60	223421.84	1142.73	1112.1	False	13C4-PFOS	219793.05	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	379812.32	857.66	2319.1	False	13C2-PFOA	1011034.31	1250.00		N/A	N/A	✓

Sample Name	G1775-FS-D(7)	Injection Vial	23
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:53:30 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1456915.06	994.02	3395.5	False	13C2-PFDA	1415910.83	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.10	225056.29	1476.59	1481.2	False	13C4-PFOS	211601.60	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	197299.69	1382.31	1132.9	False	13C4-PFOS	211601.60	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.55	1227635.52	1012.92	5491.6	False	13C2-PFOA	987621.19	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	1098209.59	928.99	9138.3	False	13C2-PFOA	987621.19	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.24	1507970.80	995.28	4663.5	False	13C2-PFOA	987621.19	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	1436443.32	1012.58	6744.7	False	13C2-PFOA	987621.19	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	1326402.78	998.02	15064.5	False	13C2-PFDA	1415910.83	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	1247271.44	1052.38	3573.5	False	13C2-PFDA	1415910.83	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	1350441.87	1055.53	4396.5	False	13C2-PFDA	1415910.83	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.31	257557.63	1028.06	3895.7	False	13C4-PFOS	211601.60	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.89	235778.21	1169.62	3904.4	False	13C4-PFOS	211601.60	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.60	214813.01	1141.23	1540.6	False	13C4-PFOS	211601.60	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	372119.86	860.21	5176.2	False	13C2-PFOA	987621.19	1250.00		N/A	N/A	✓

Chromatograms



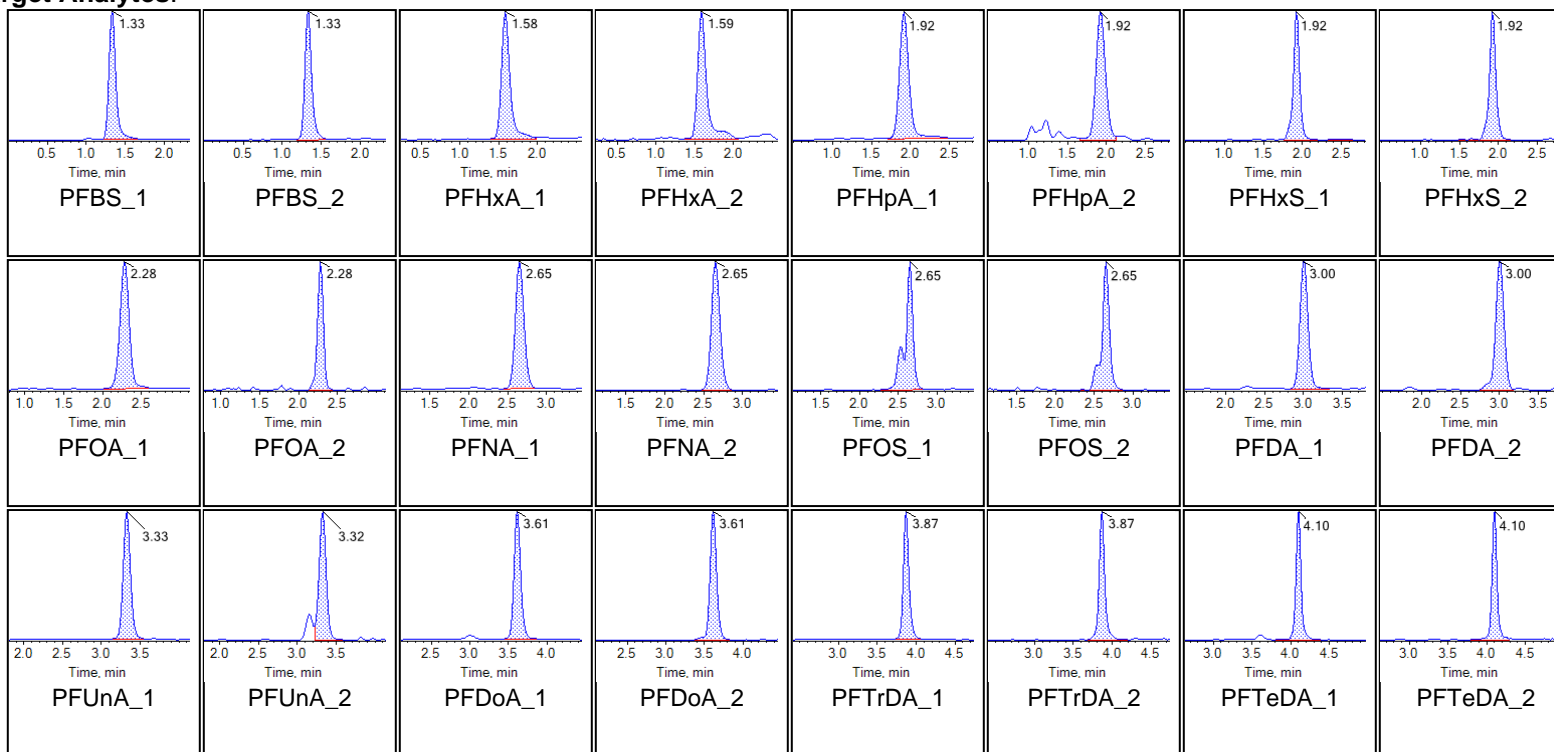
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 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	11/10/2020 8:07:44 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

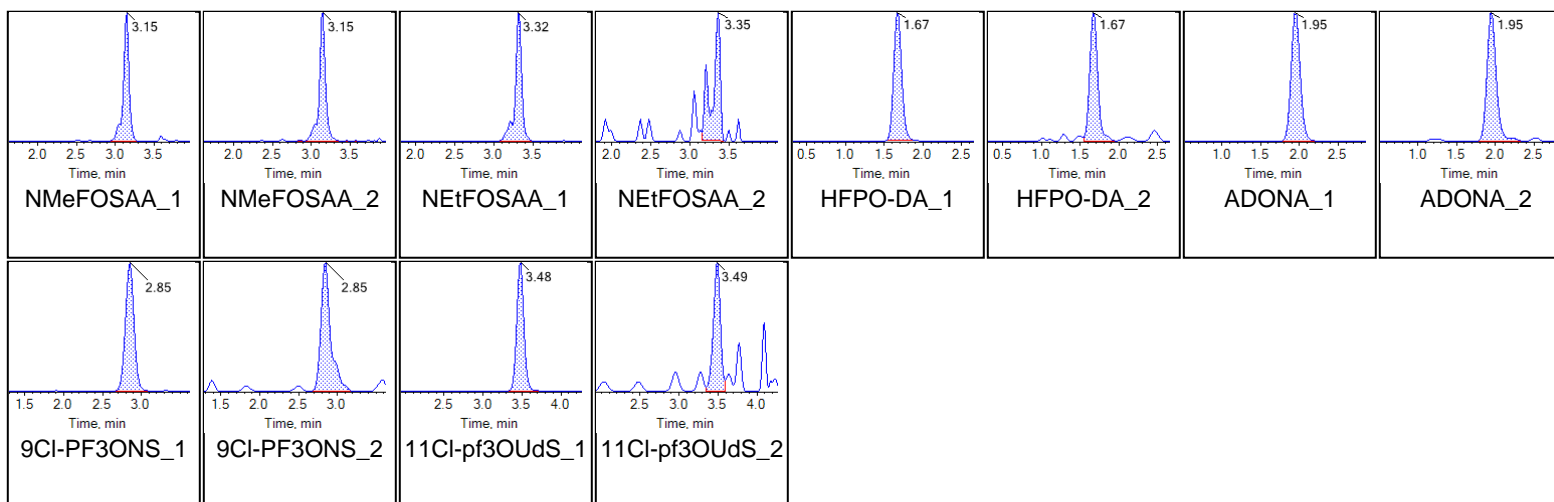
Chromatograms

Target Analytes:

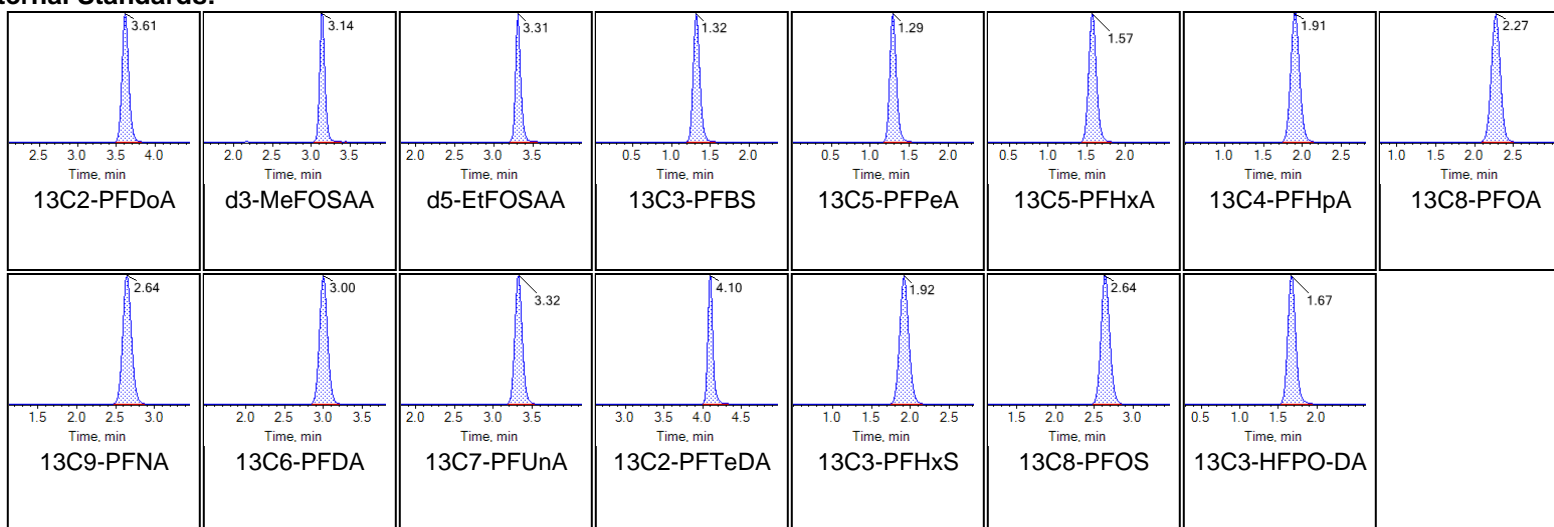




Chromatogram Report

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Internal Standards:





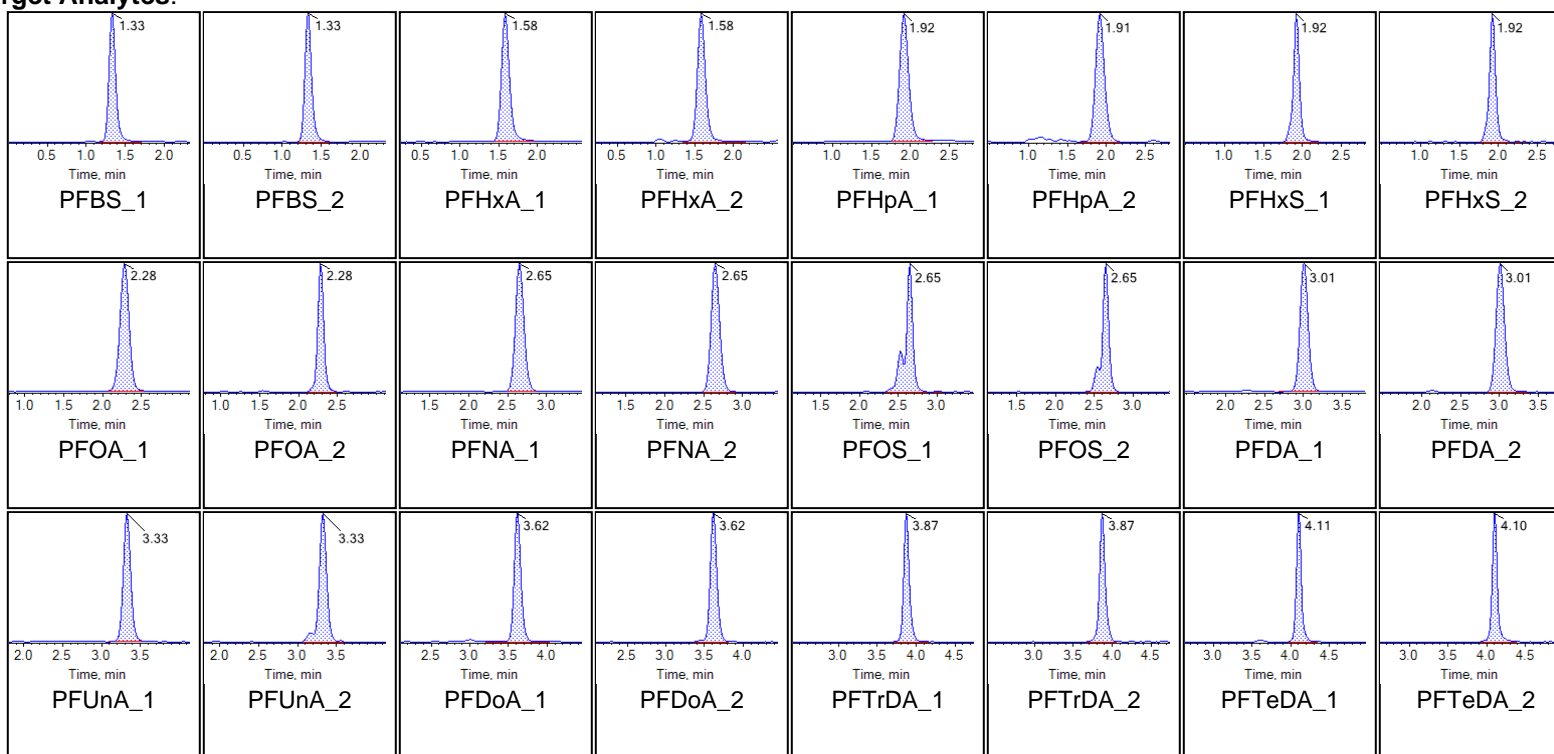
Chromatogram Report

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Printed: 17/11/2020 1:39:32 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	11/10/2020 8:18:11 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

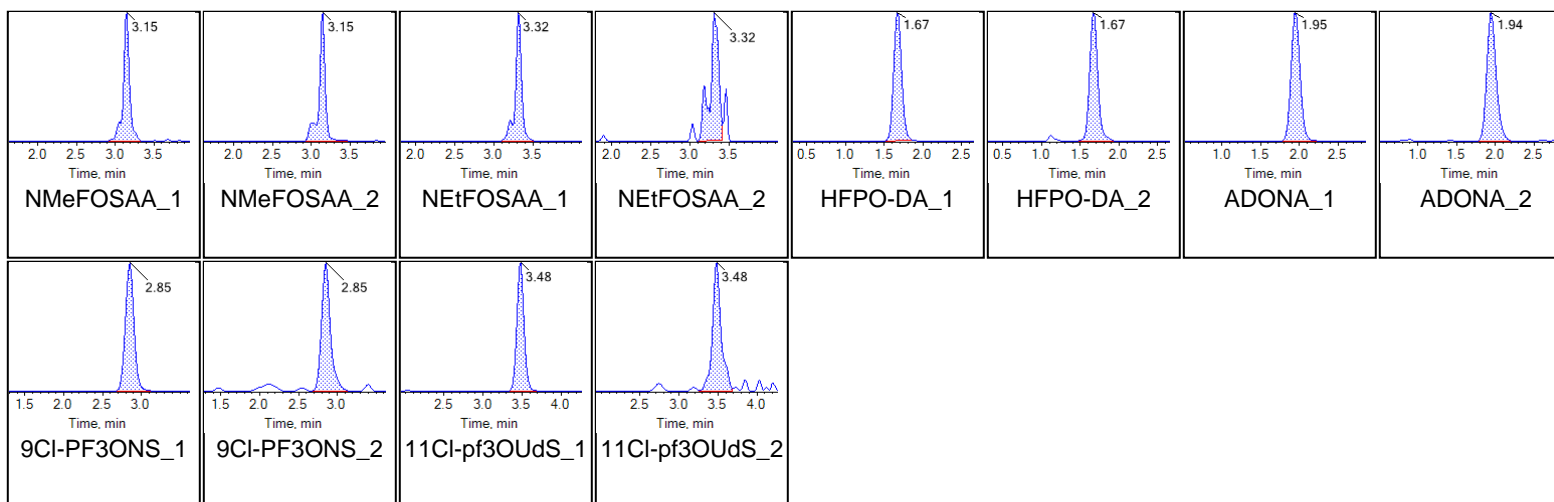
Chromatograms

Target Analytes:

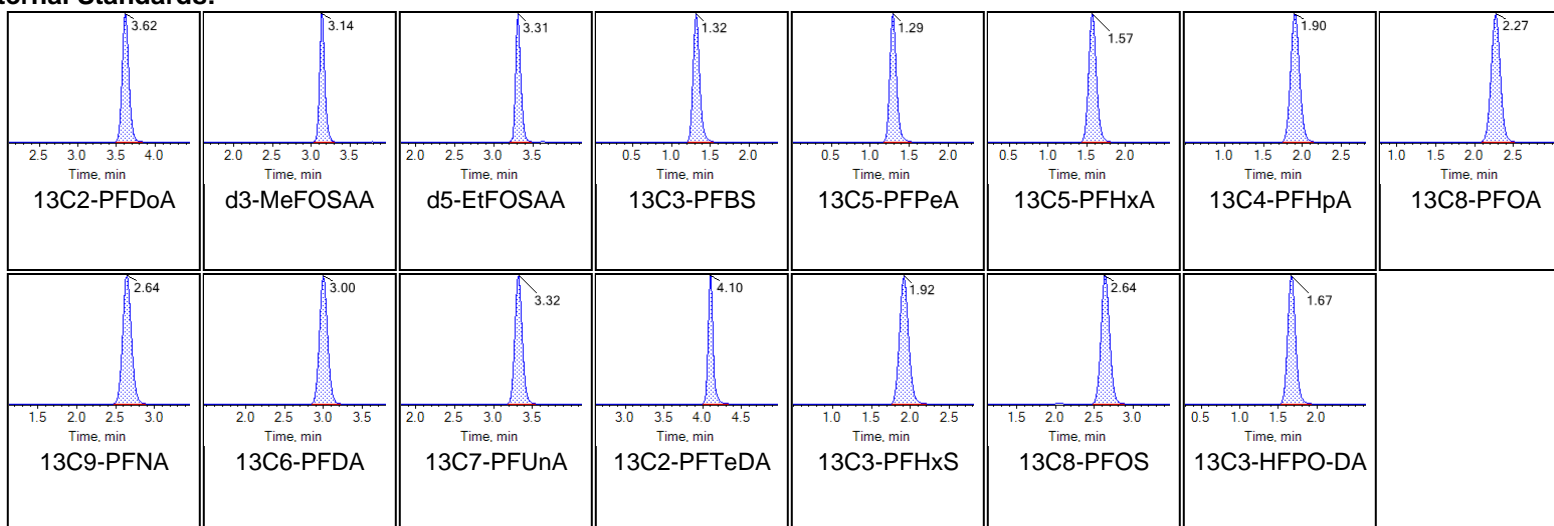




Chromatogram Report

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Internal Standards:





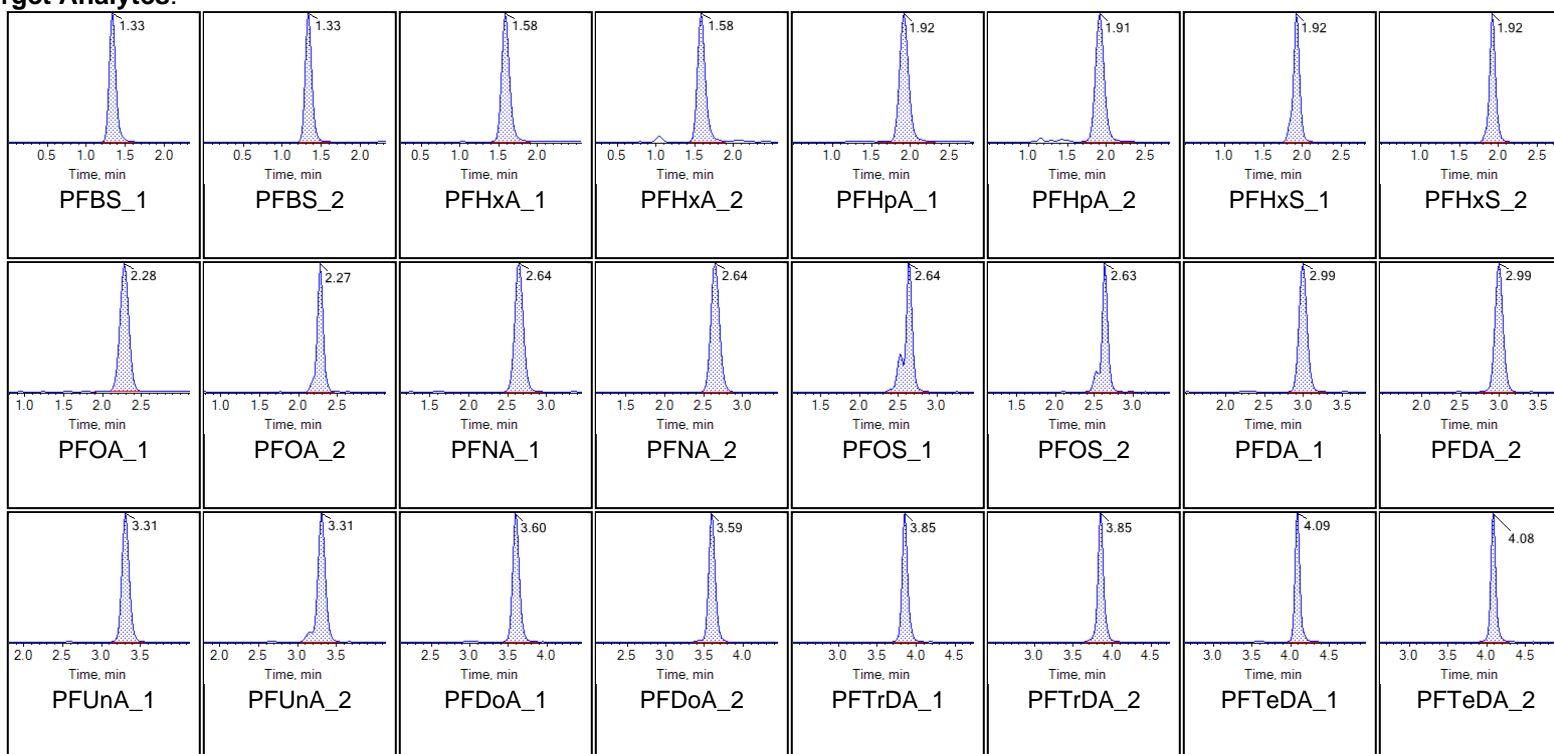
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 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	11/10/2020 8:28:38 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

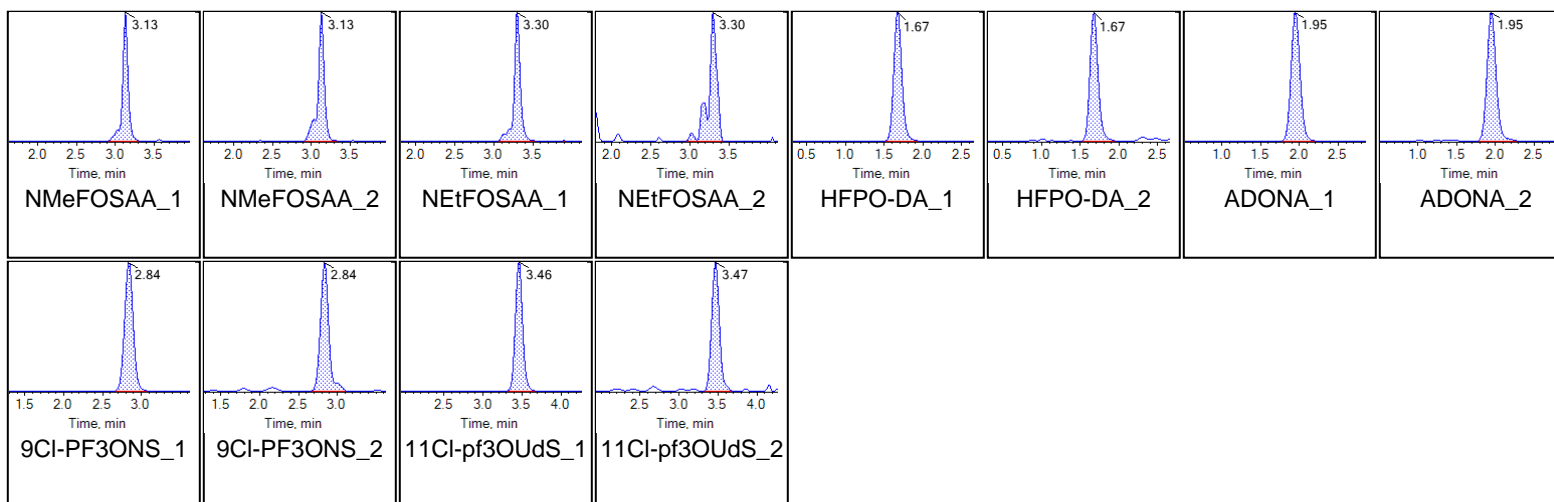
Chromatograms

Target Analytes:

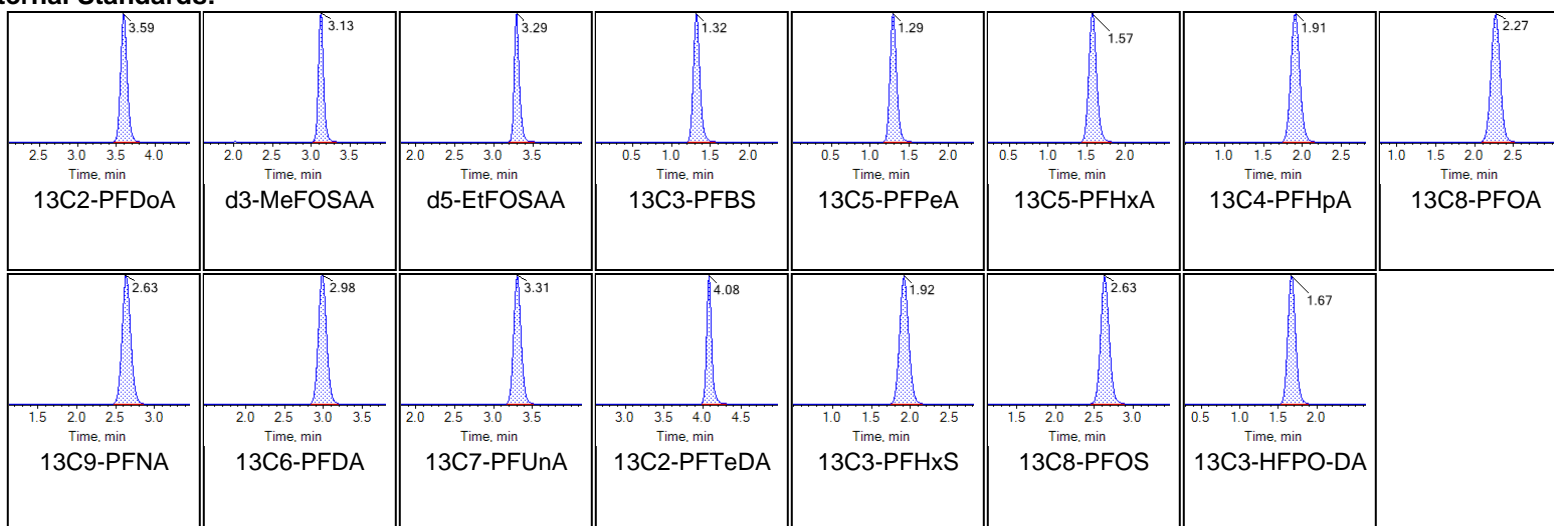




Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 PM

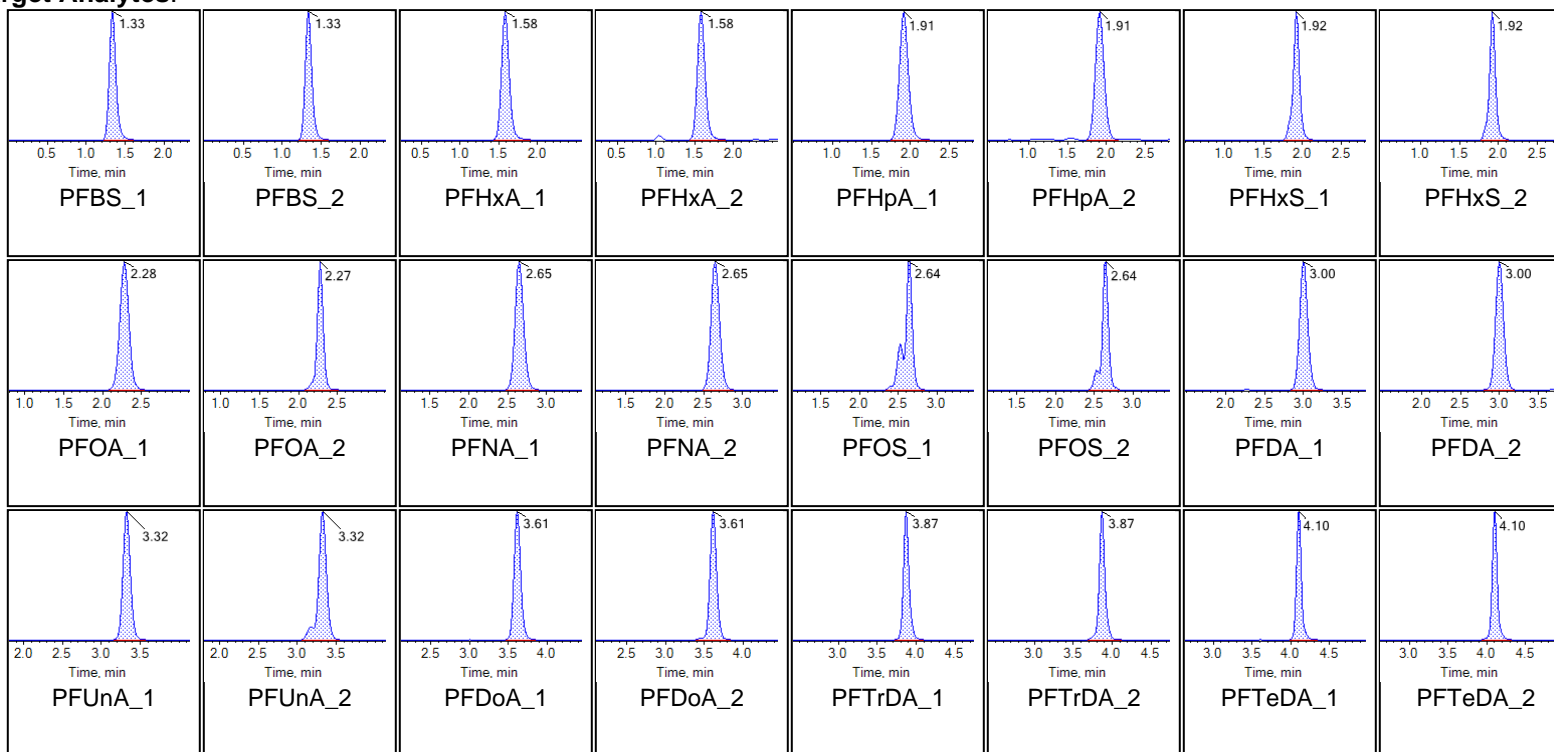
Internal Standards:



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	20-1321

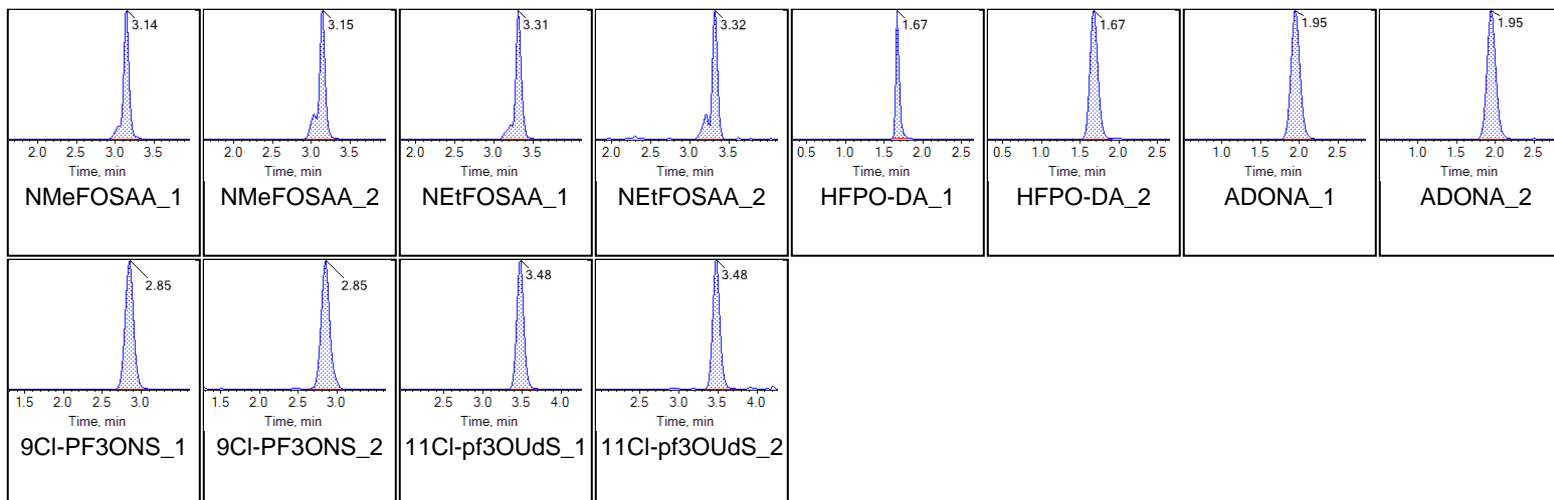
Chromatograms

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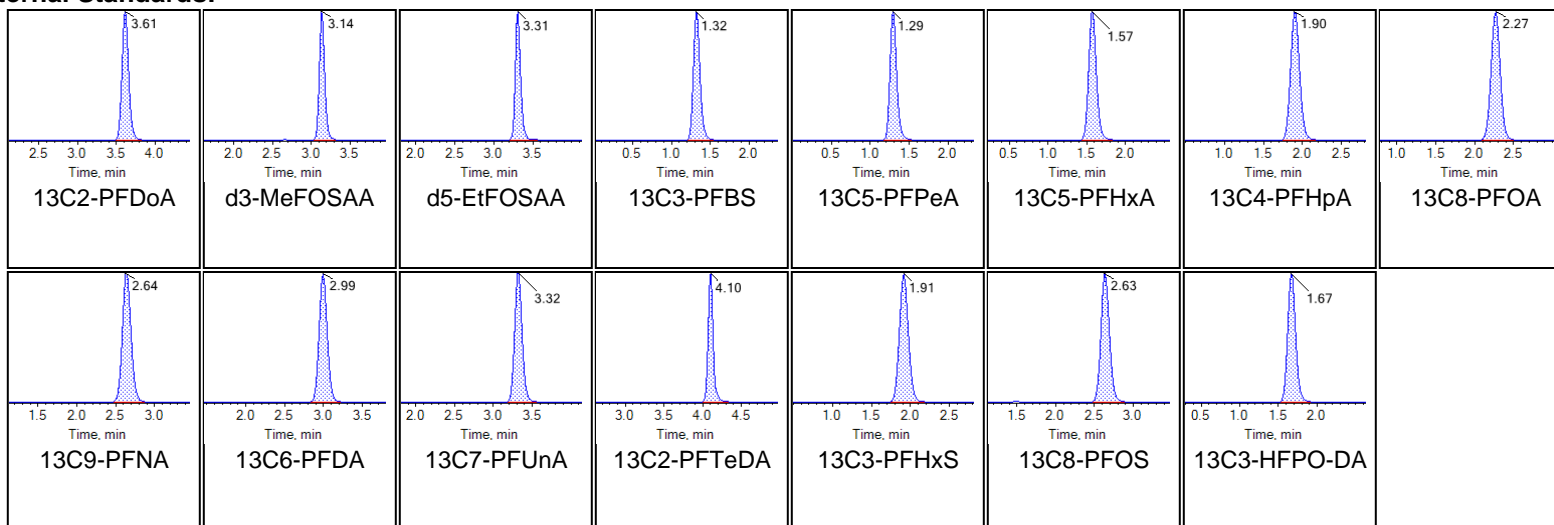




Chromatogram Report

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Internal Standards:





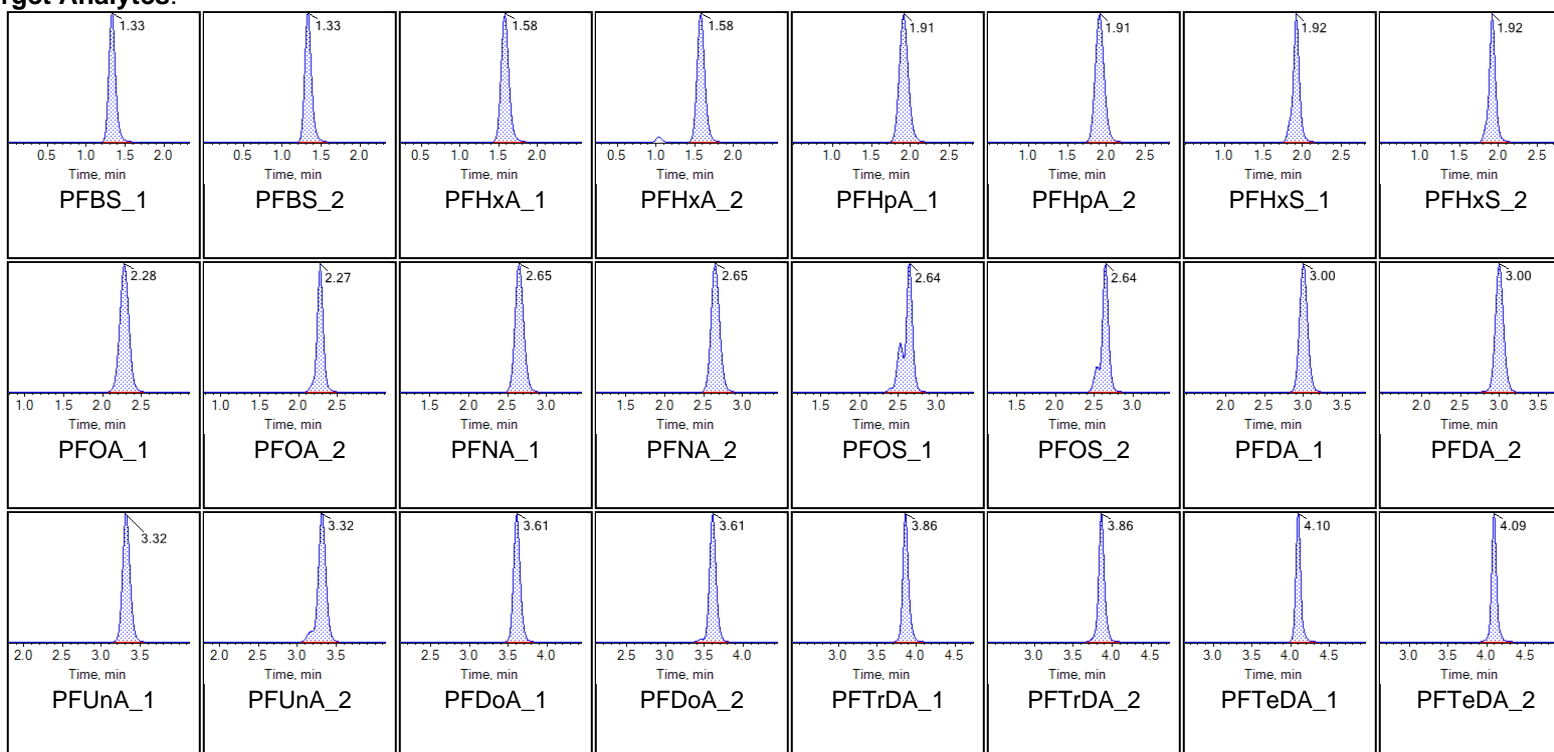
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 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	11/10/2020 8:49:32 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

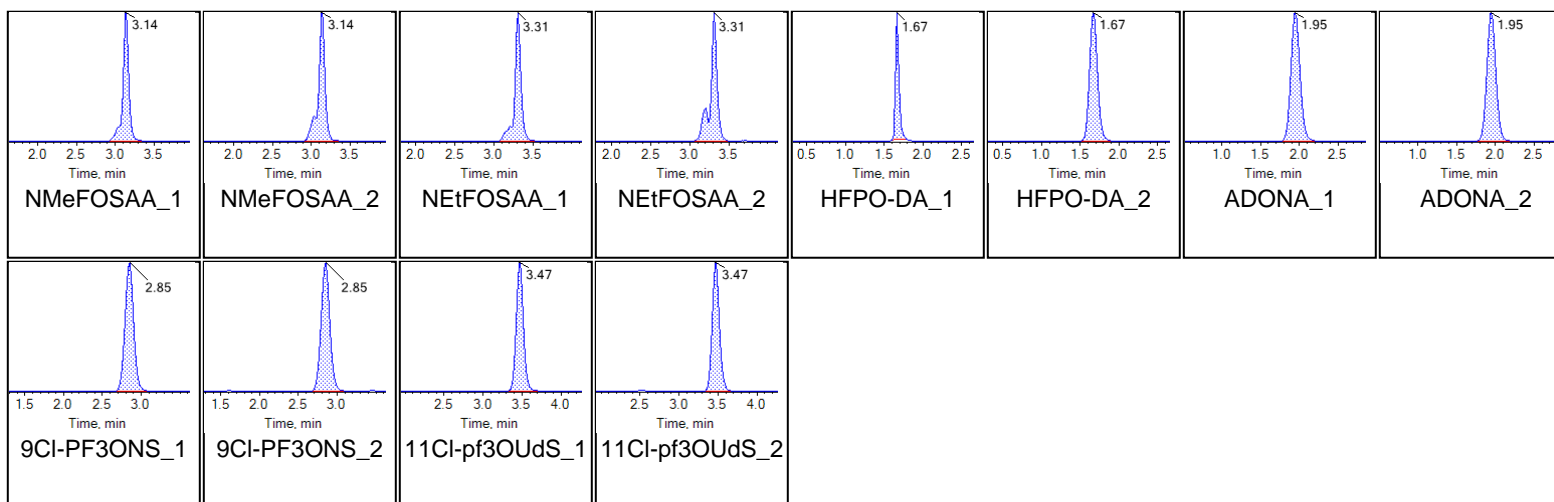
Chromatograms

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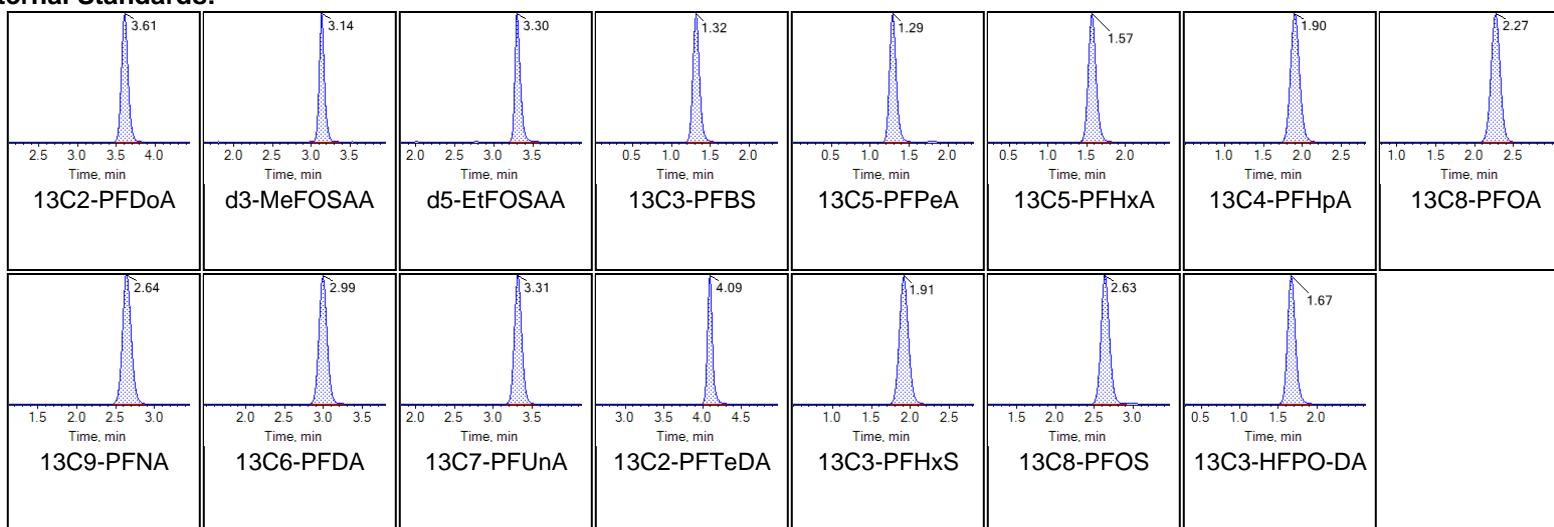




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Internal Standards:





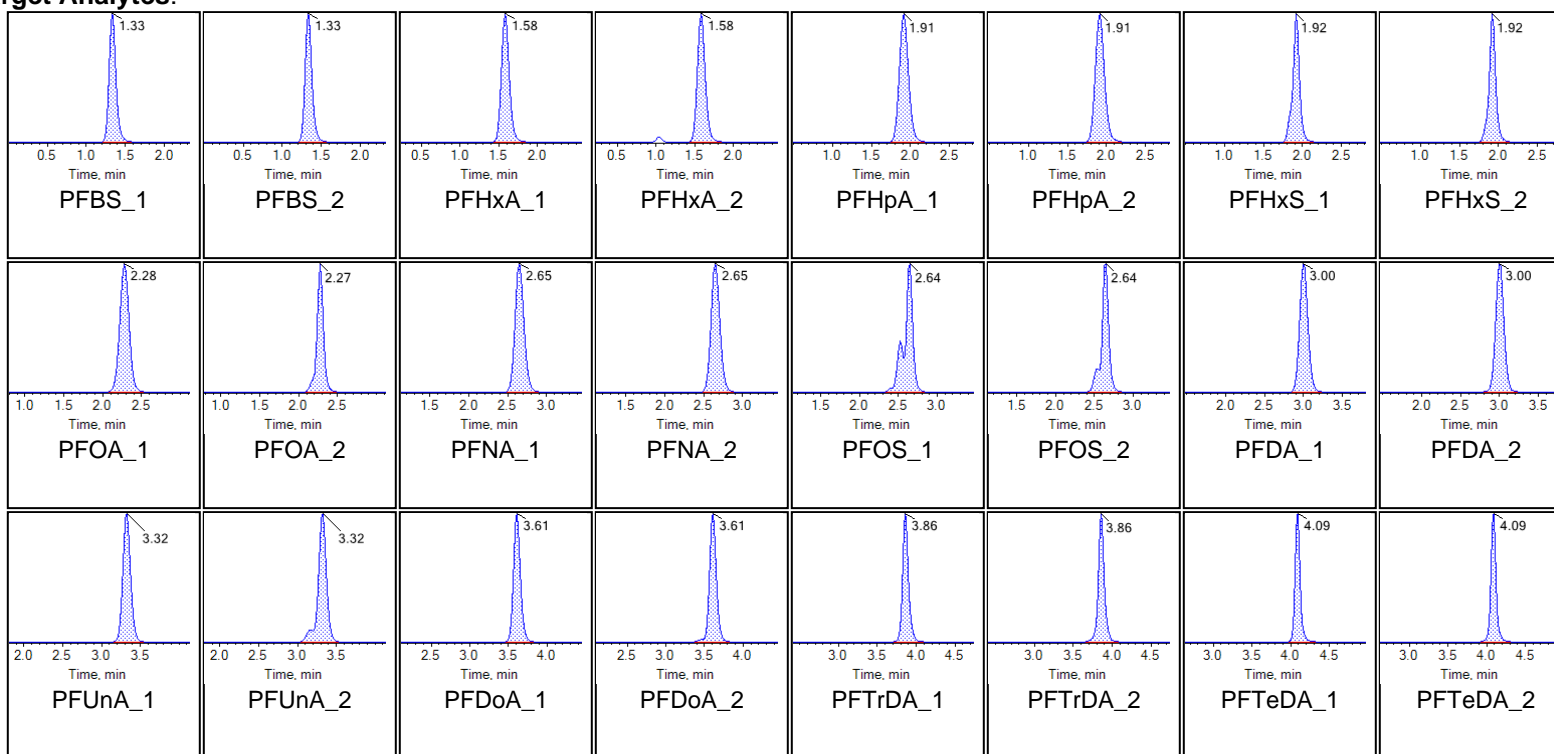
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 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	11/10/2020 8:59:59 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

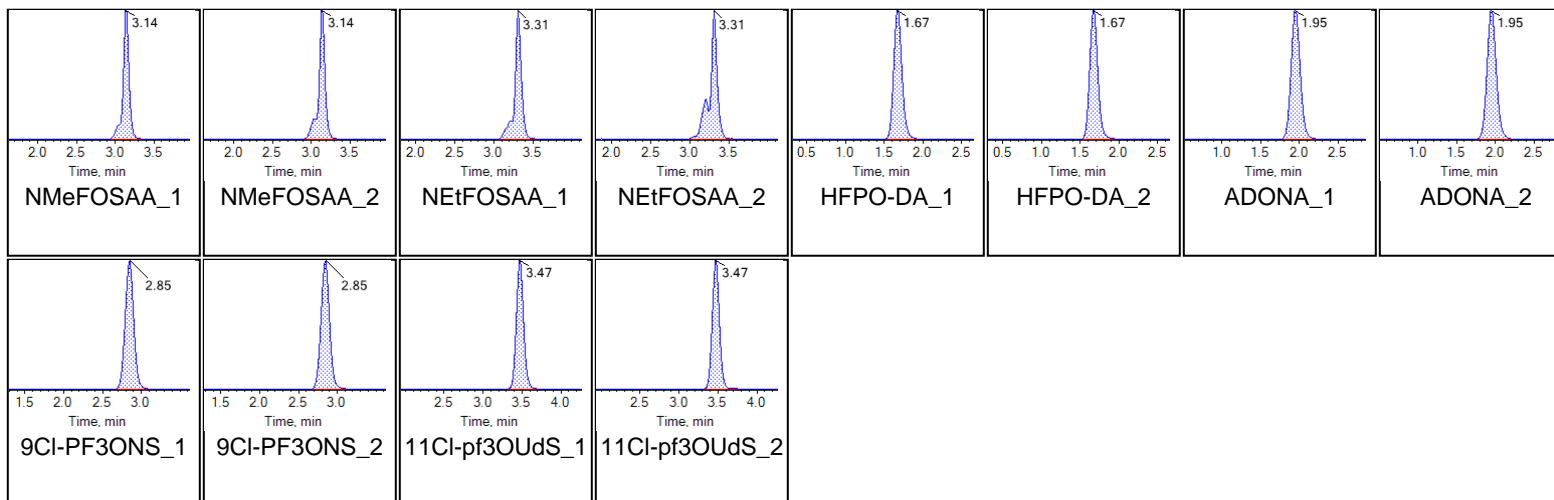
Chromatograms

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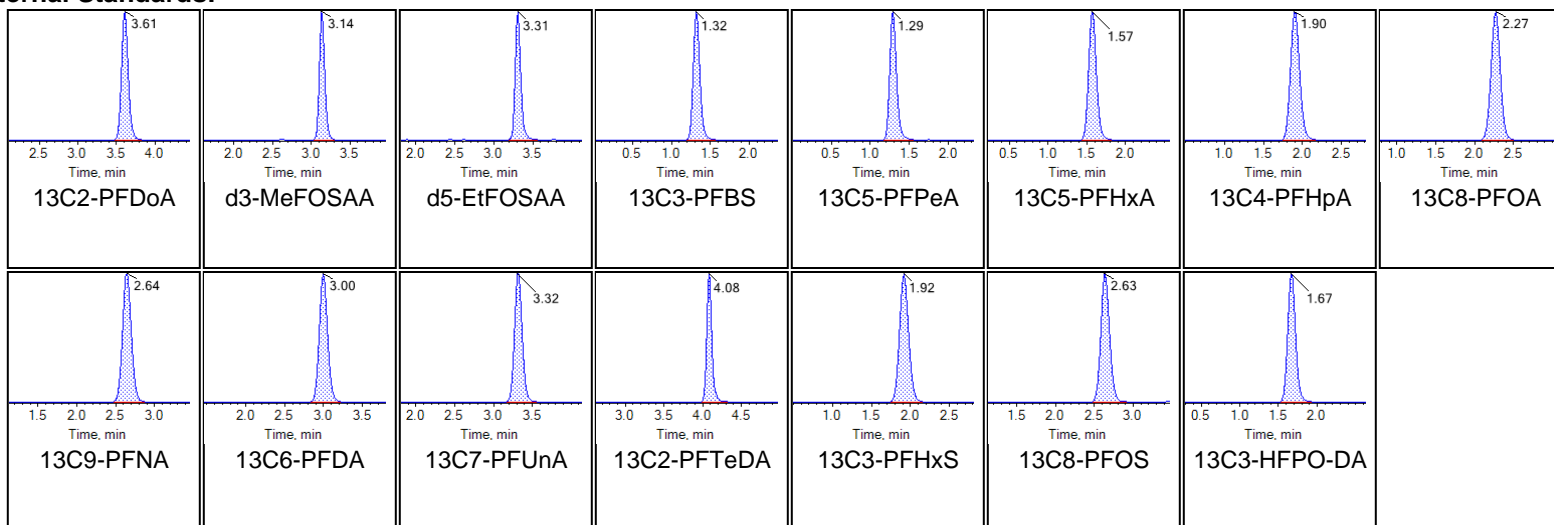




Chromatogram Report

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Internal Standards:





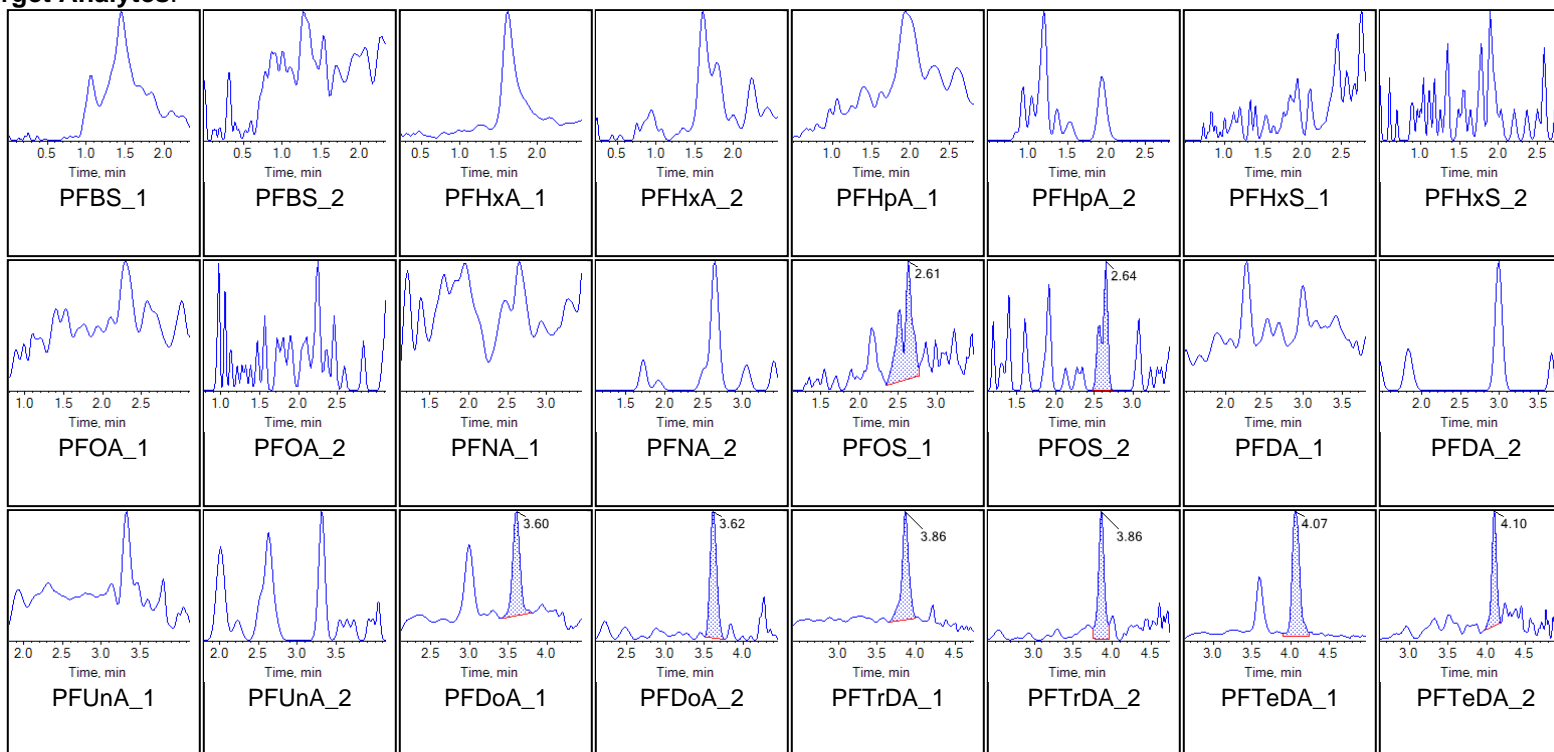
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 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	11/10/2020 9:10:26 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

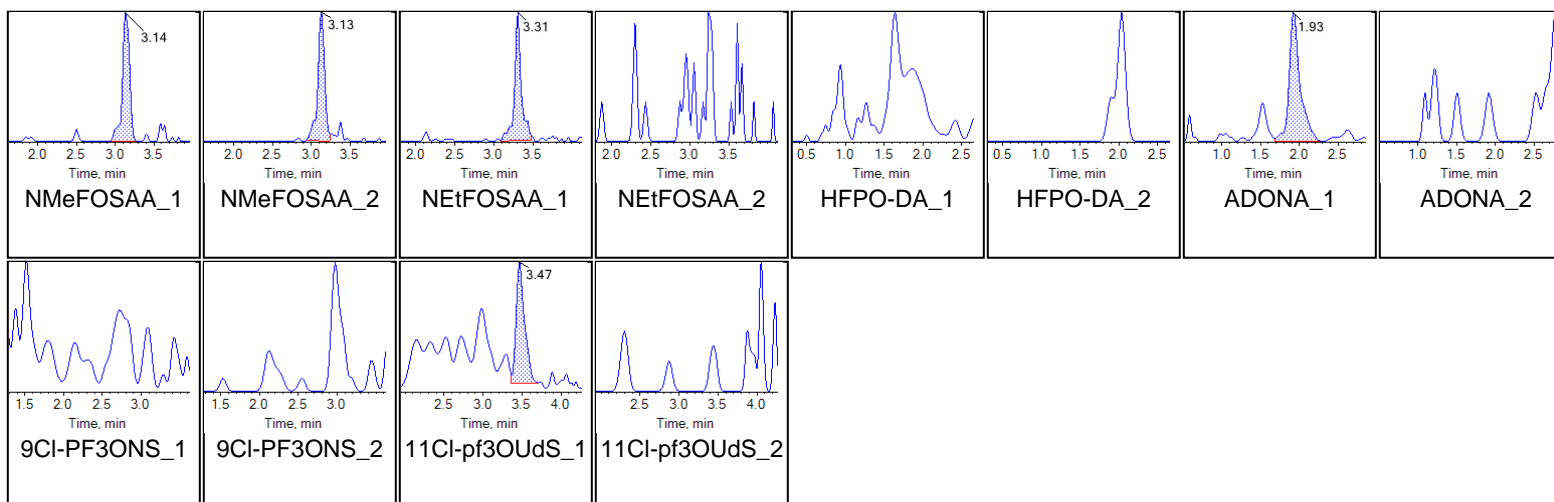
Chromatograms

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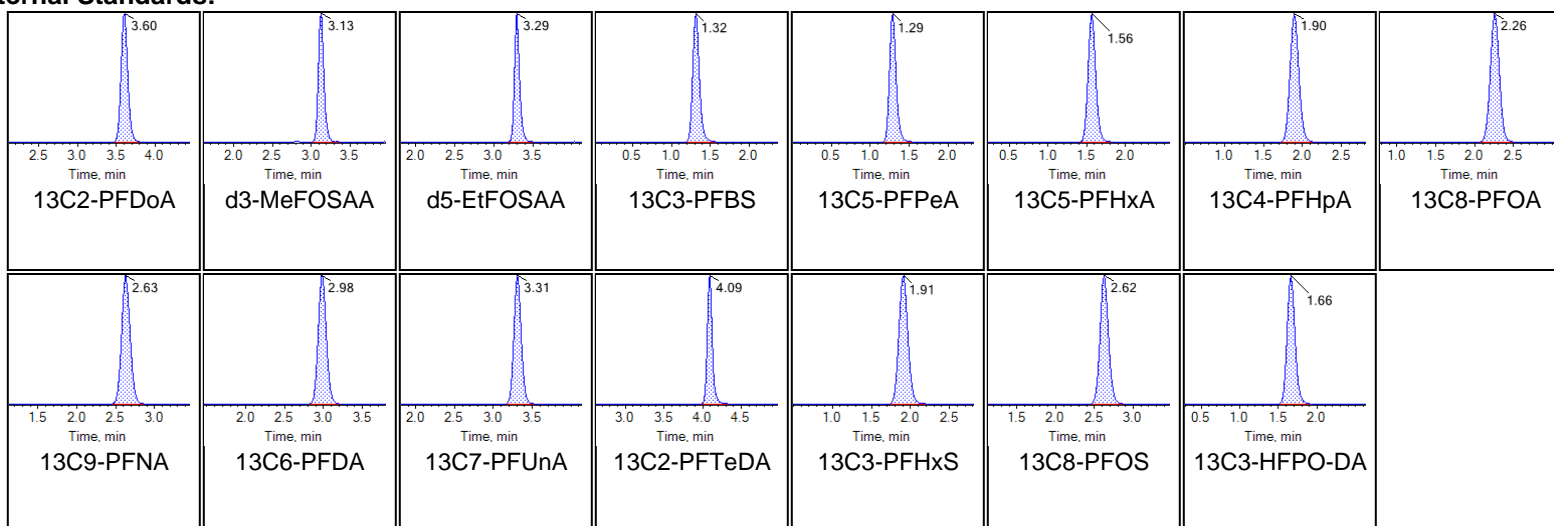




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Printed: 17/11/2020 1:39:32 PM

Internal Standards:





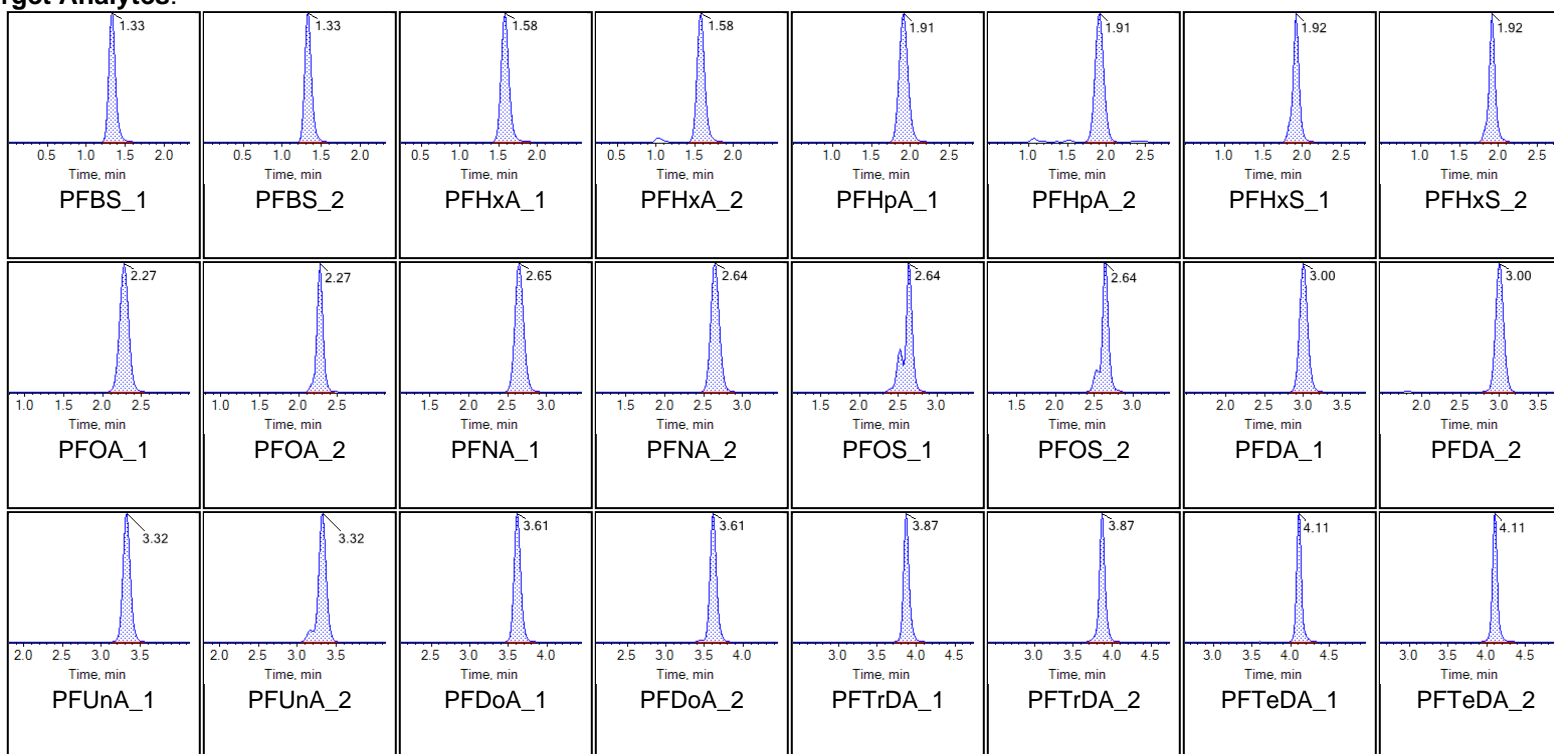
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 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	11/10/2020 9:20:54 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

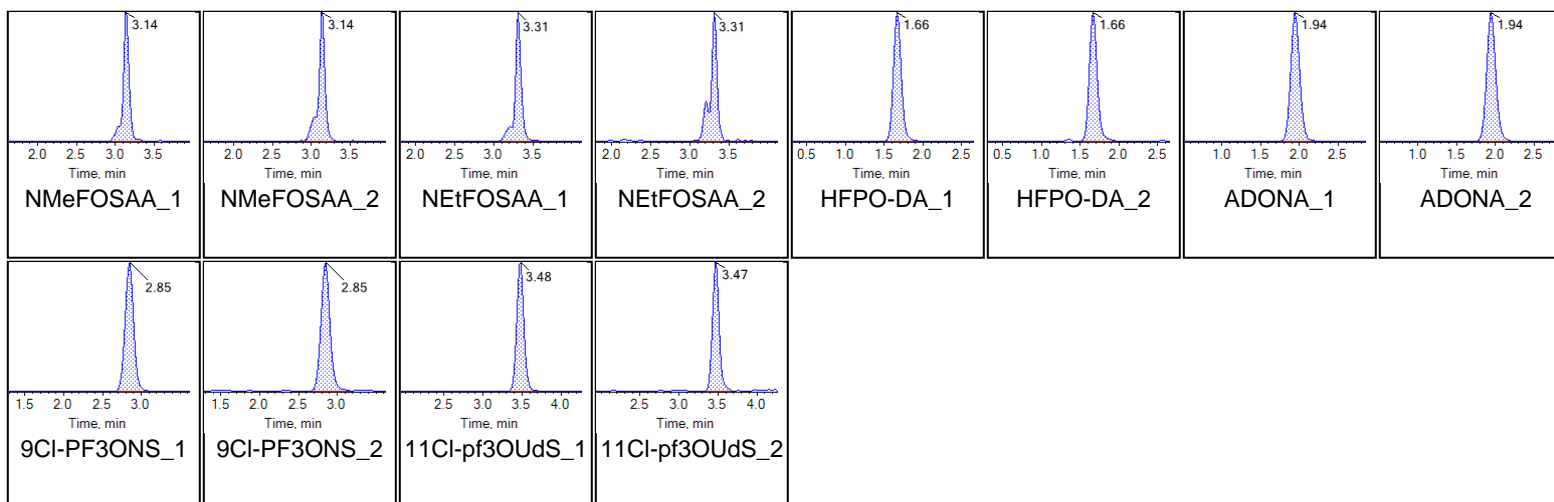
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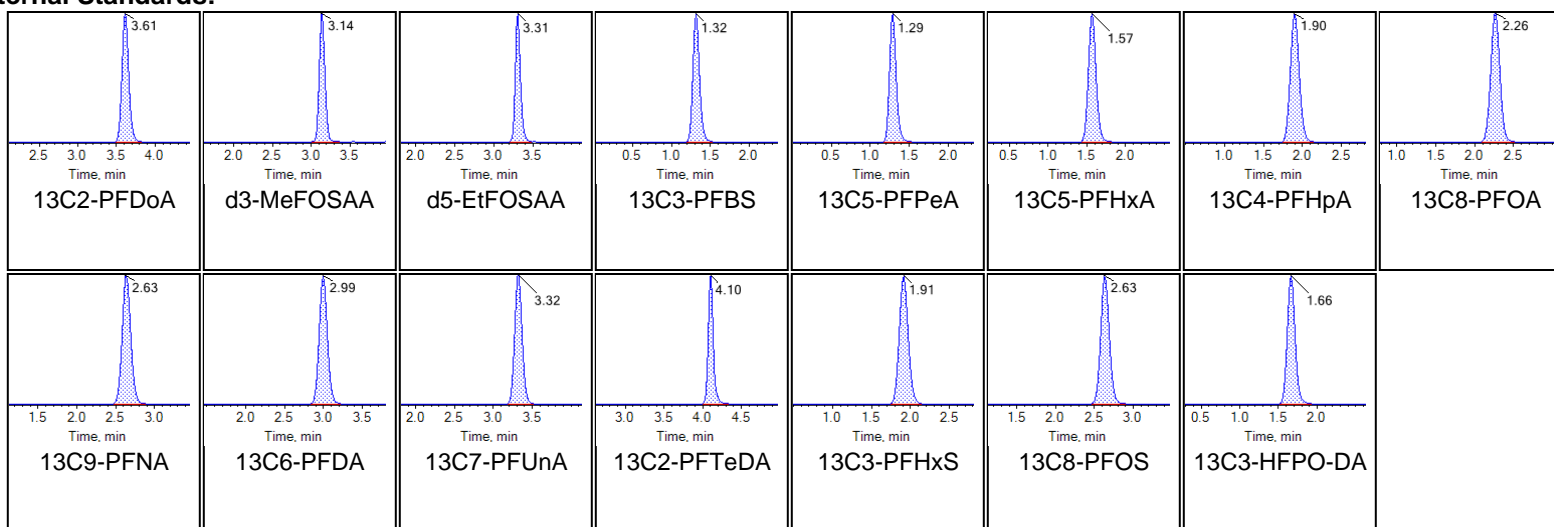




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Internal Standards:





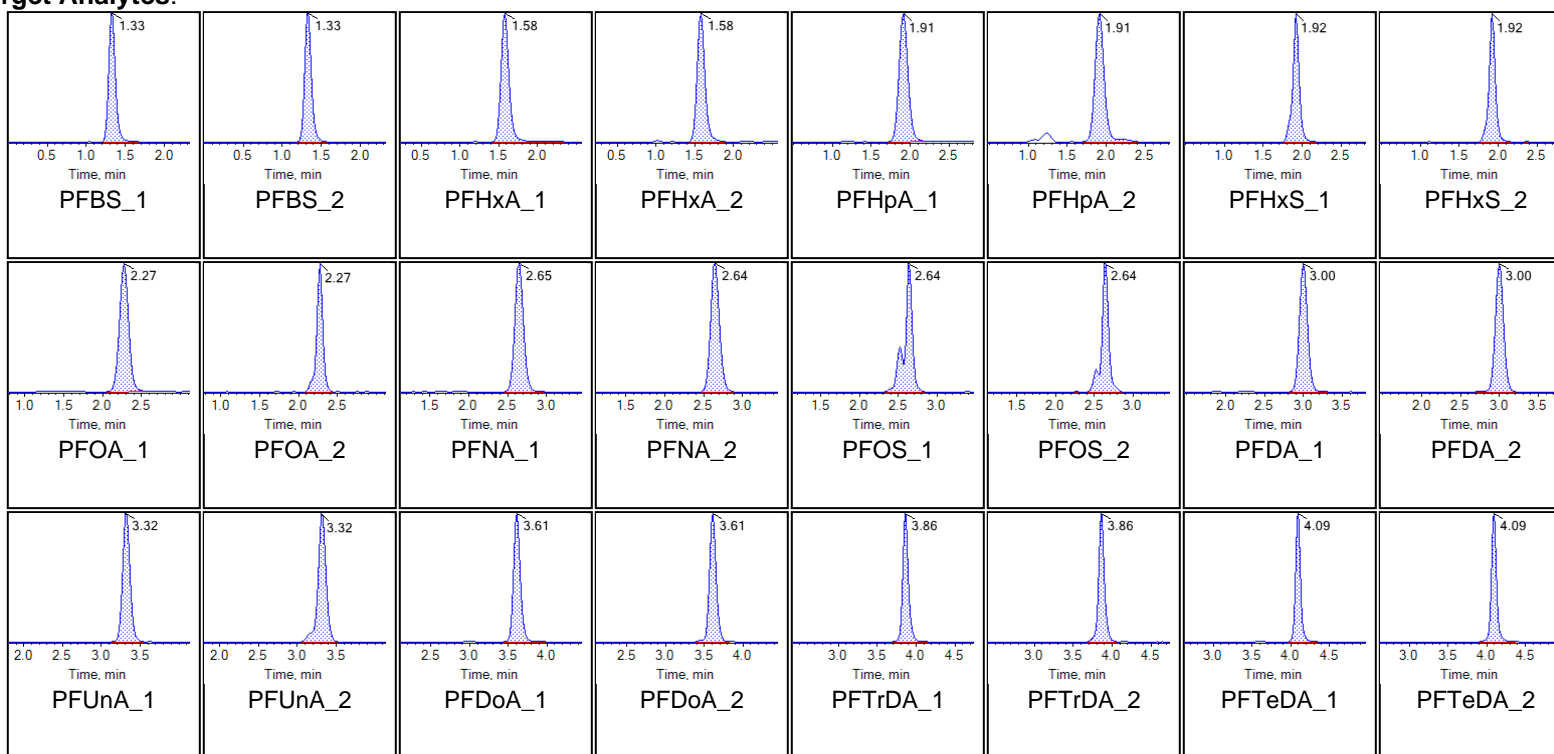
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 PM

Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 10:44:35 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

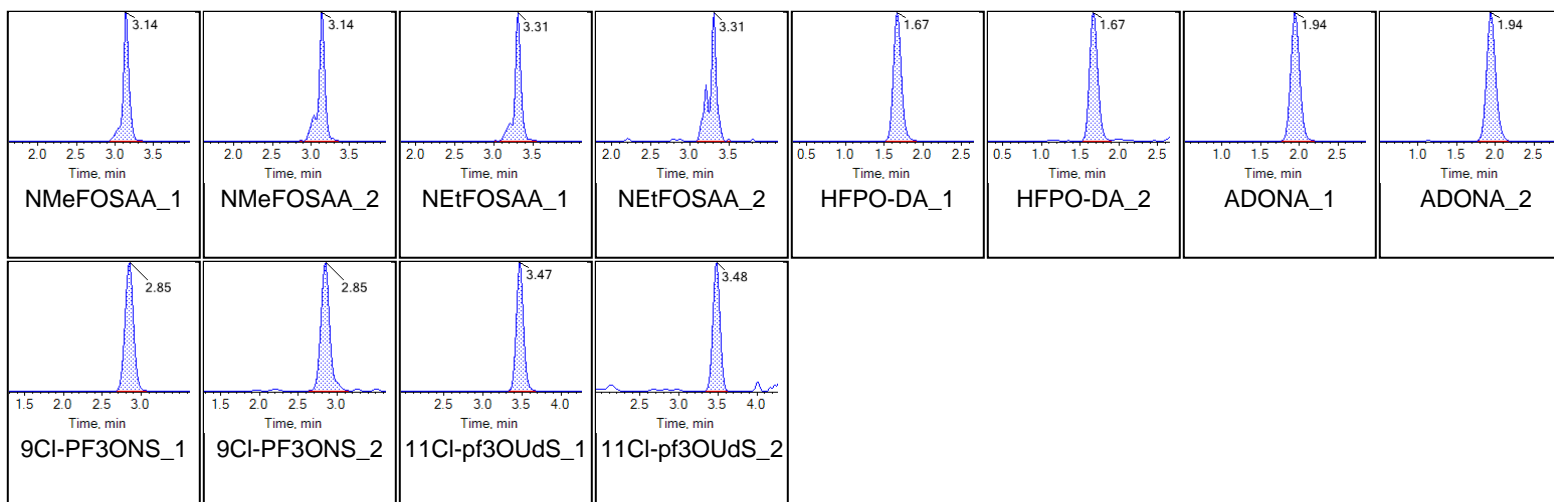
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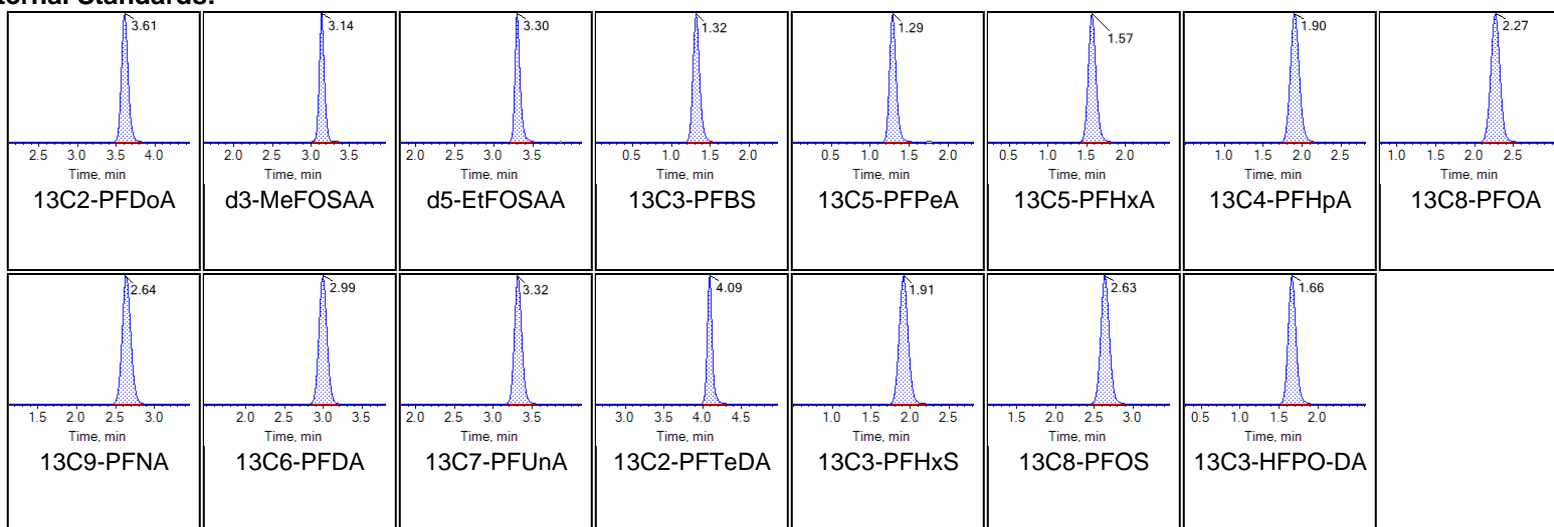




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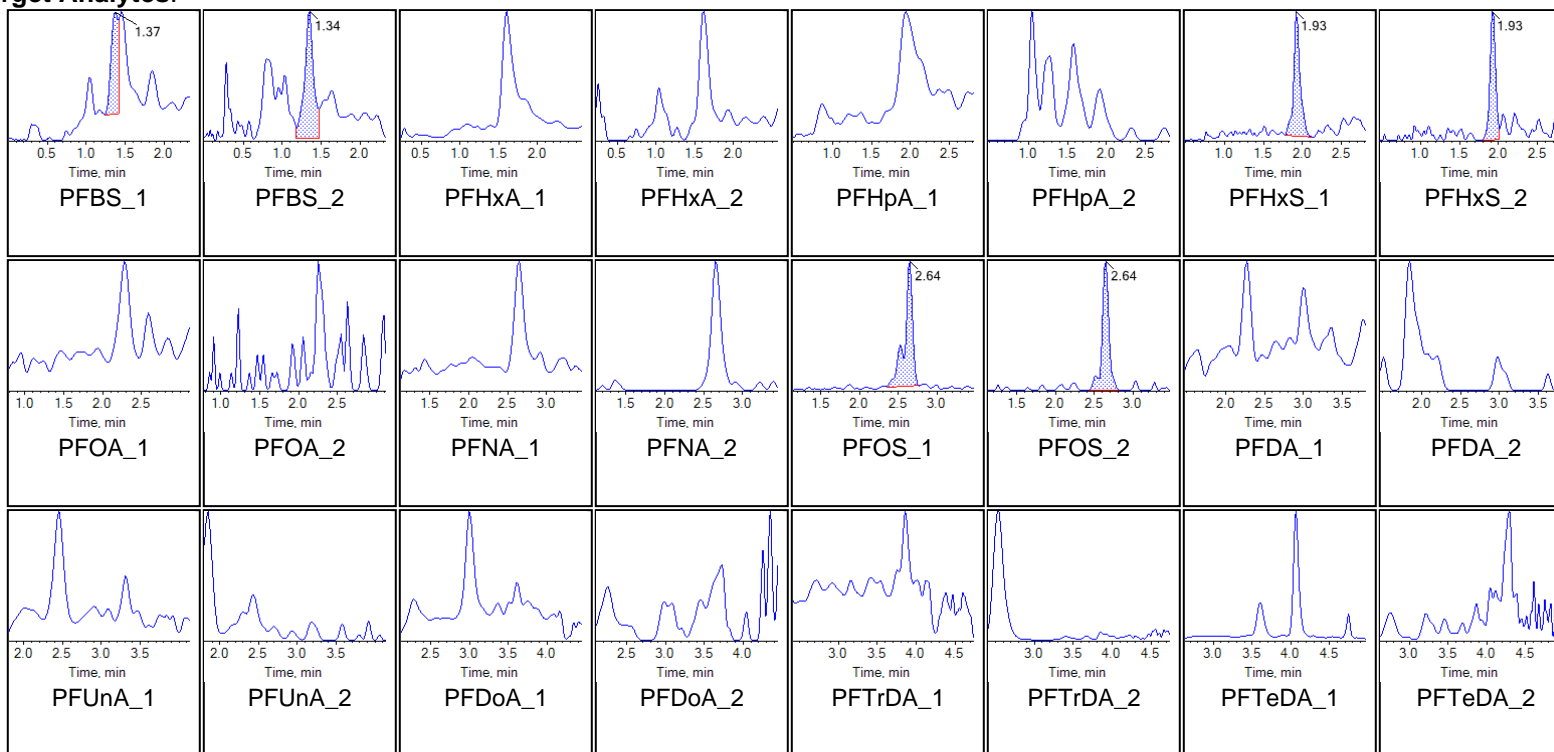
Chromatogram Report

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Printed: 17/11/2020 1:39:32 PM

Sample Name	DA945PB-FS(0)	Injection Vial	19
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:05:31 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

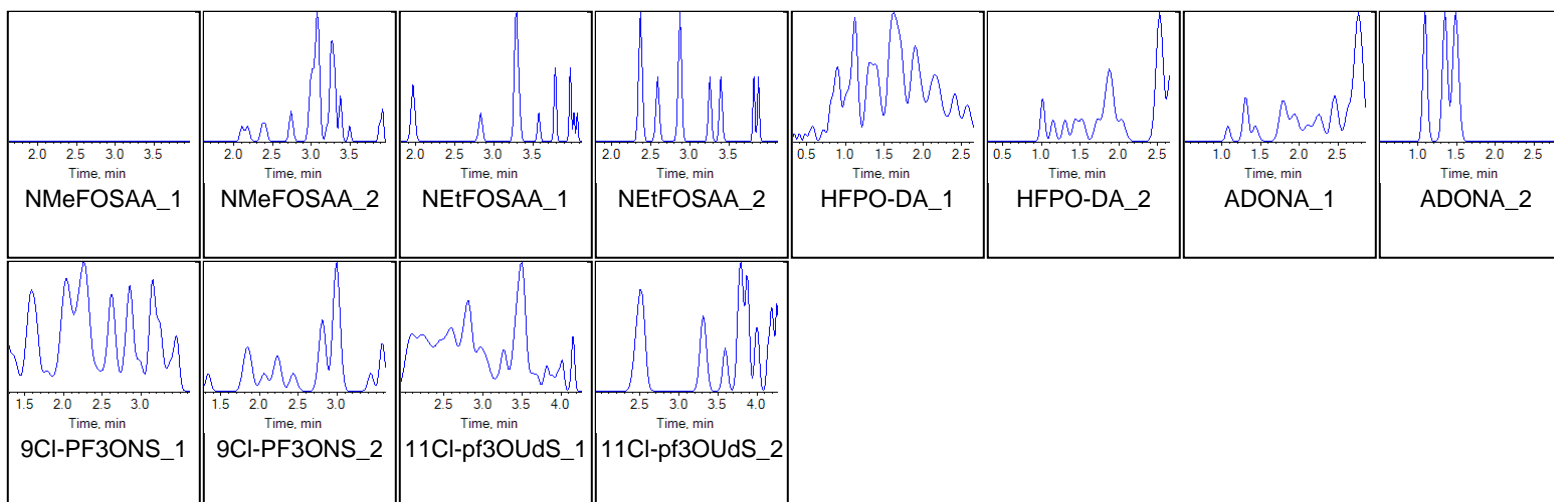
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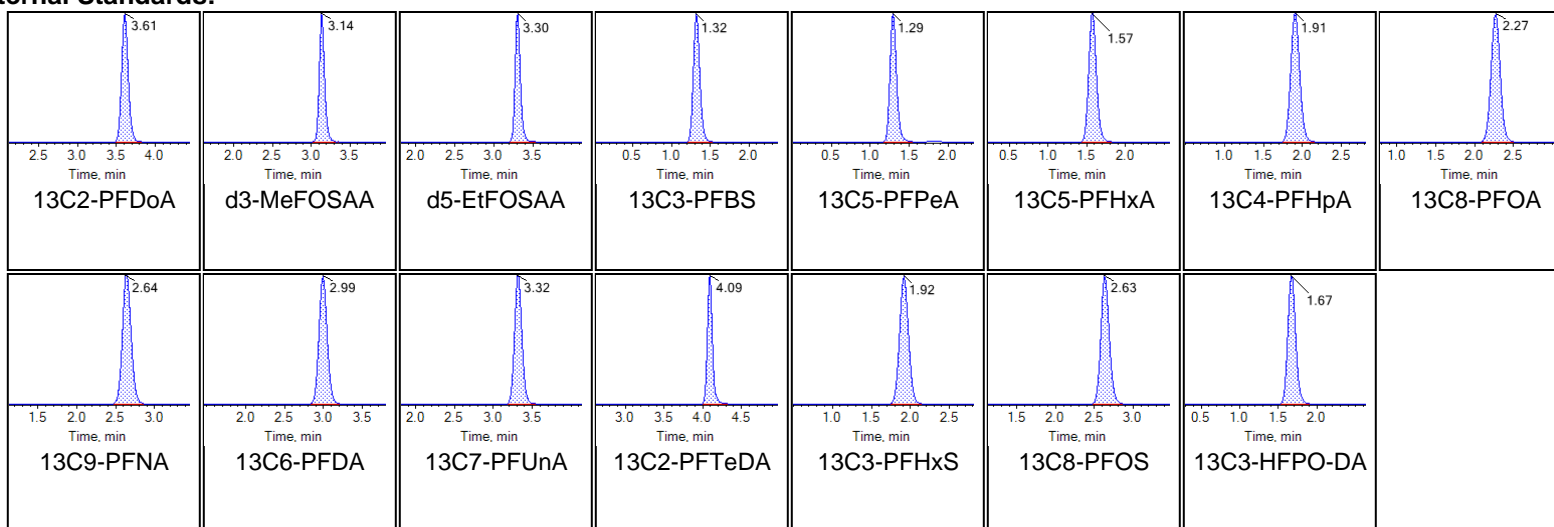




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Internal Standards:





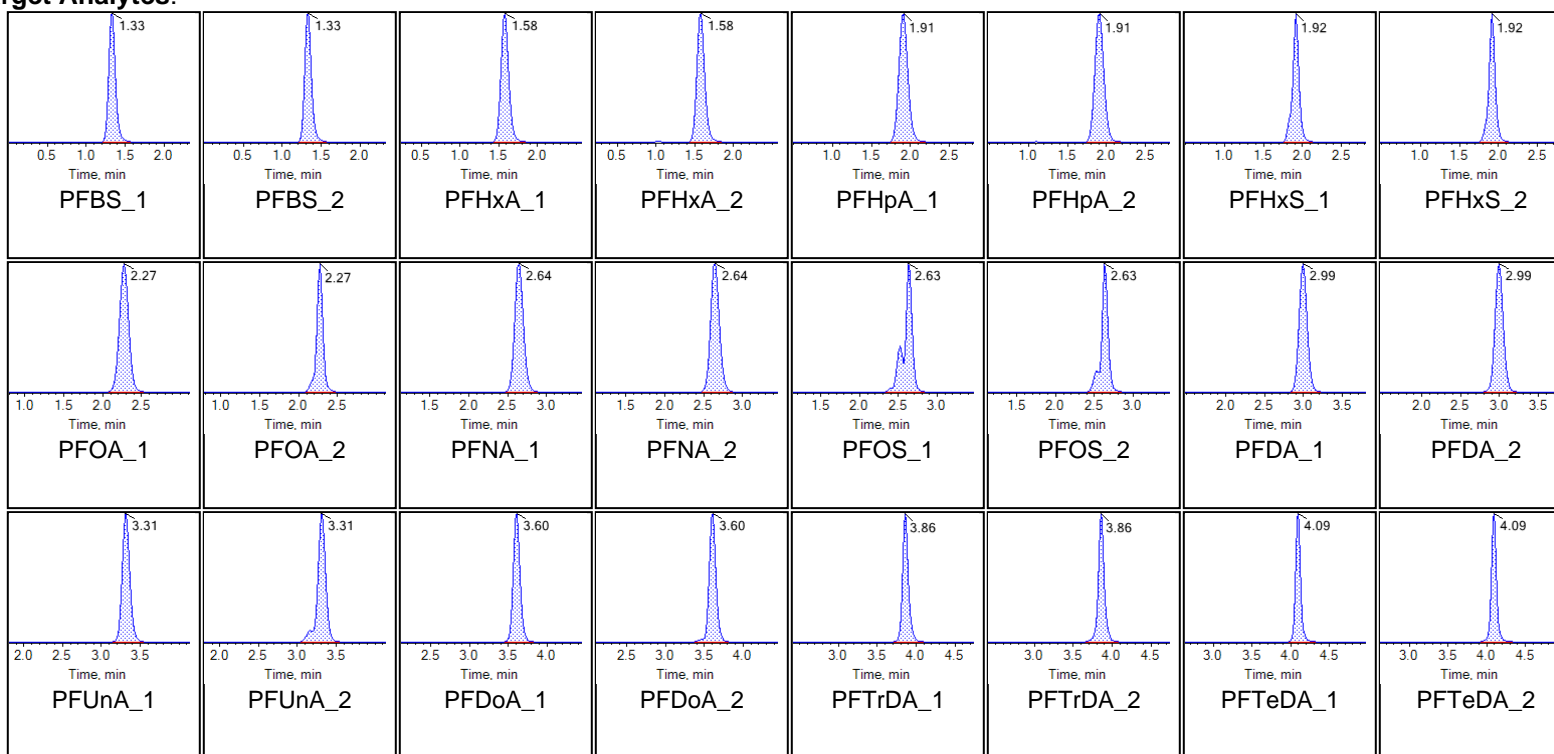
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 PM

Sample Name	DA946LCS-FS(0)	Injection Vial	20
Sample ID	Laboratory Control Sample	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	20-1321

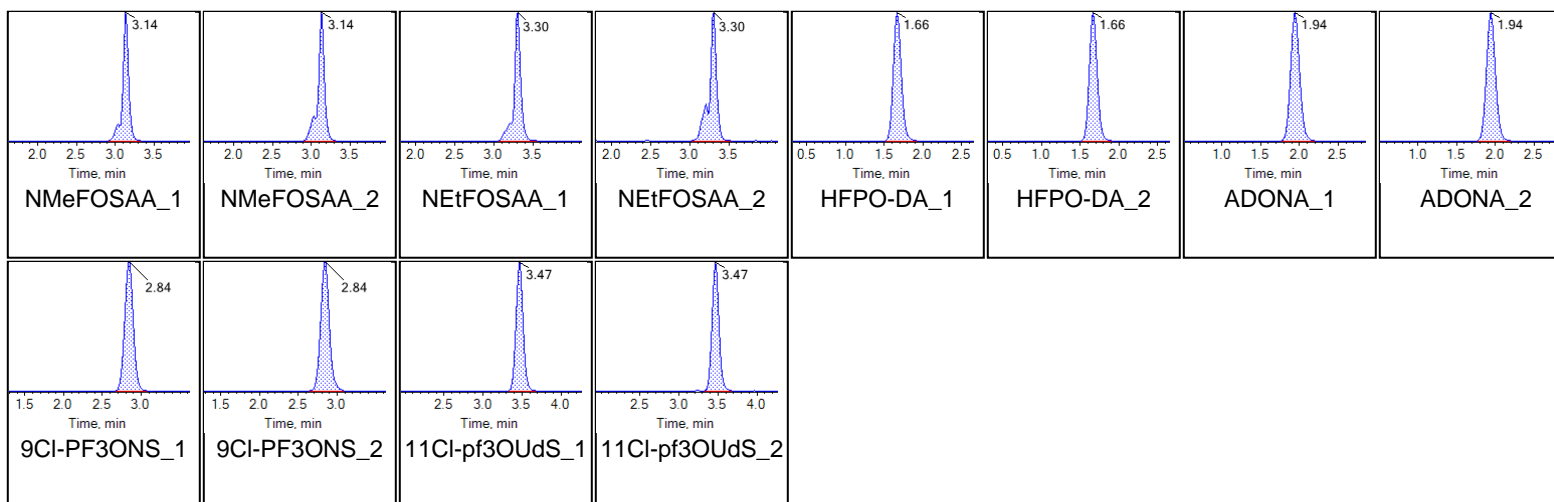
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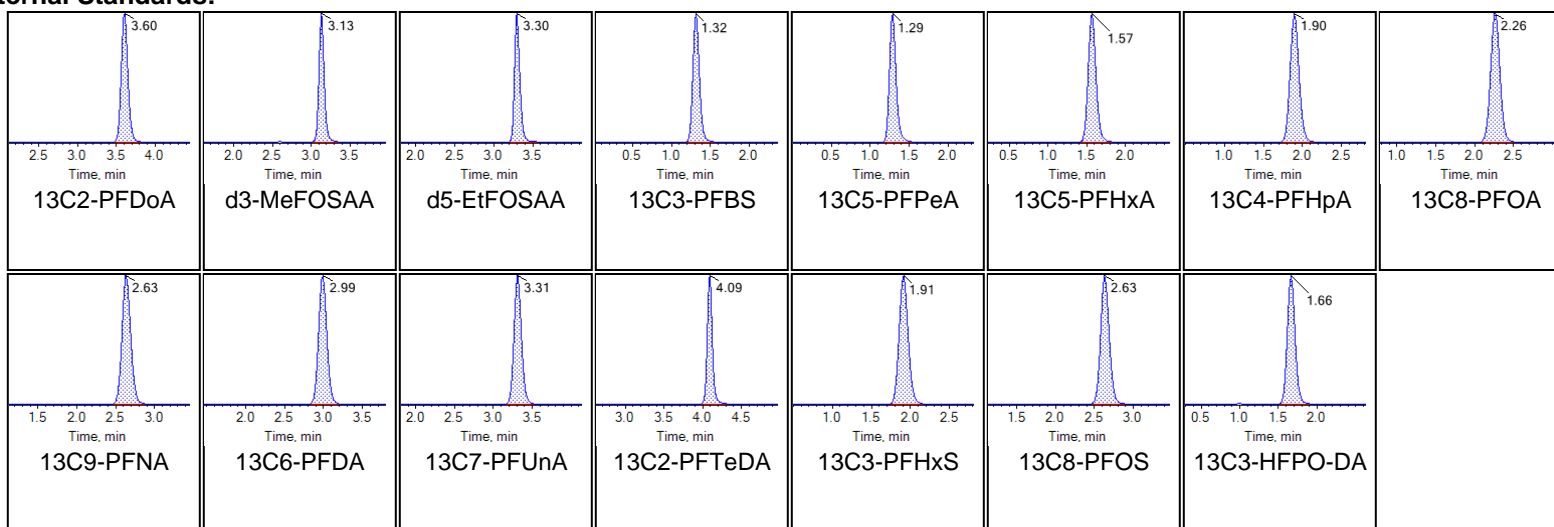




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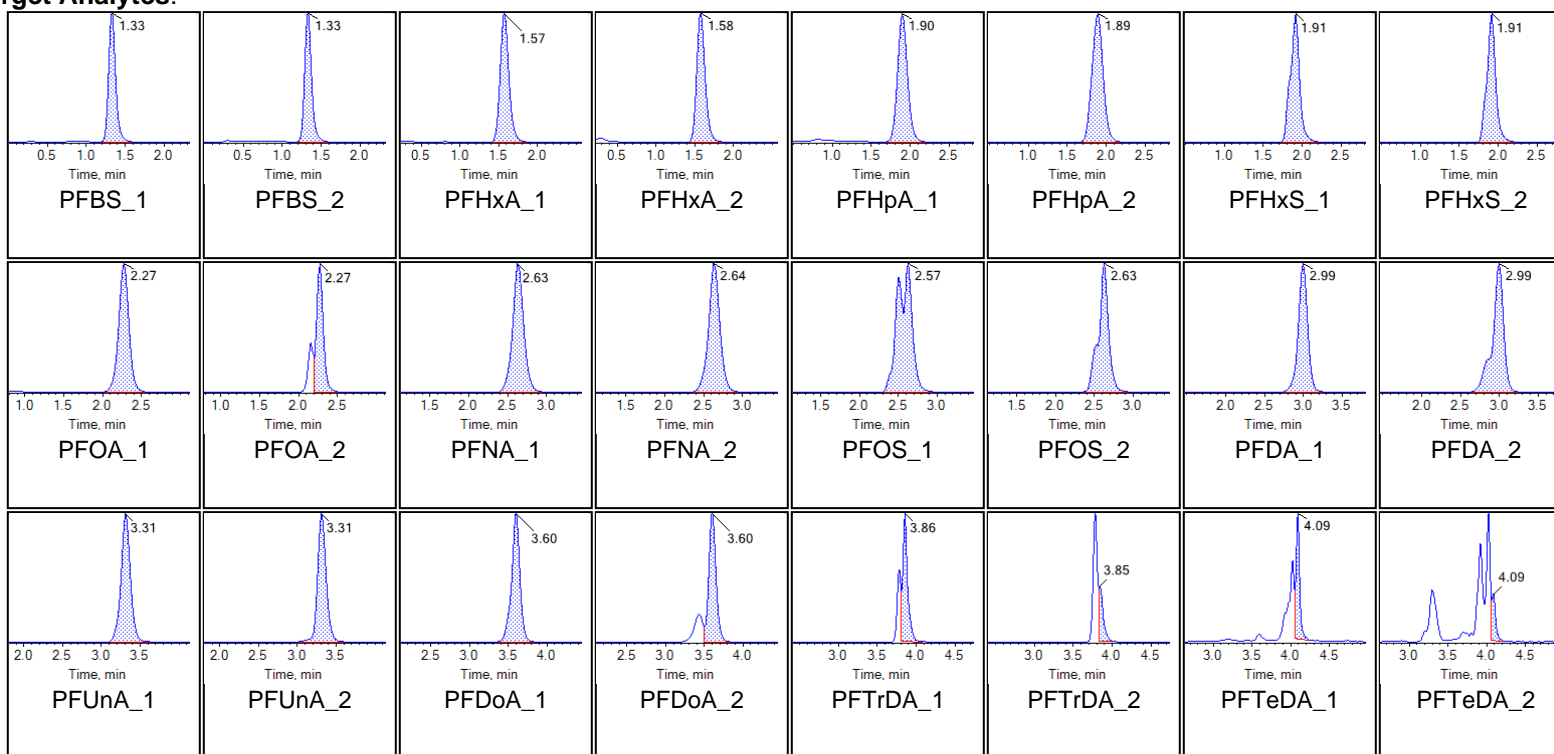
Chromatogram Report

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Printed: 17/11/2020 1:39:32 PM

Sample Name	G1765-FS(0)	Injection Vial	21
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:26:27 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

Chromatograms

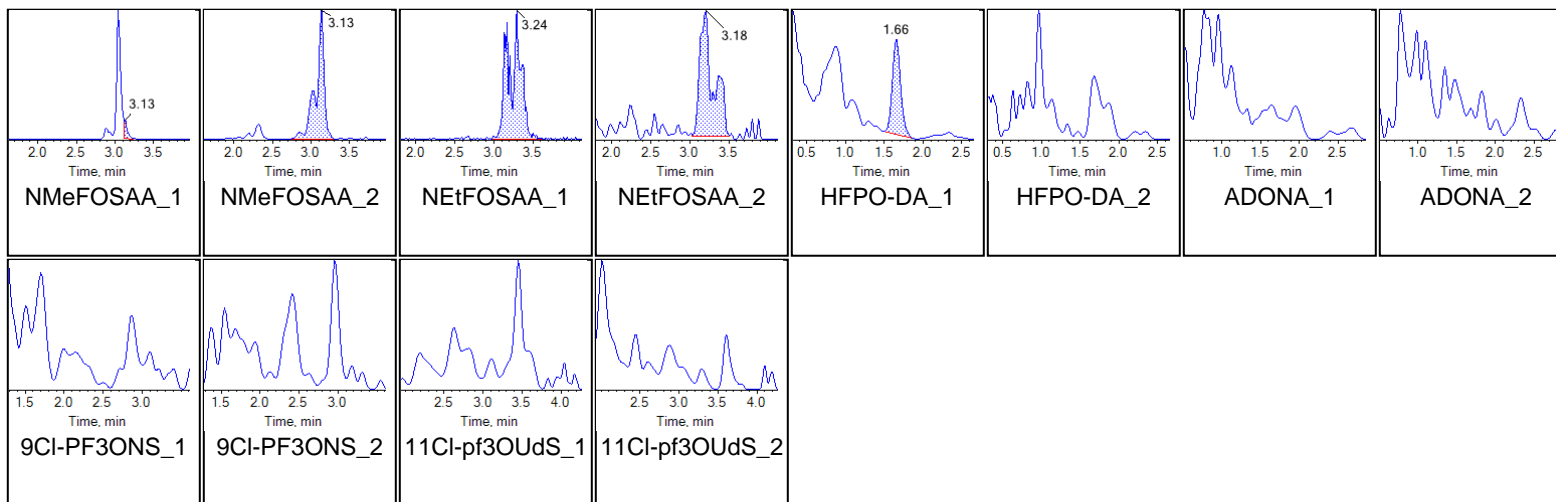
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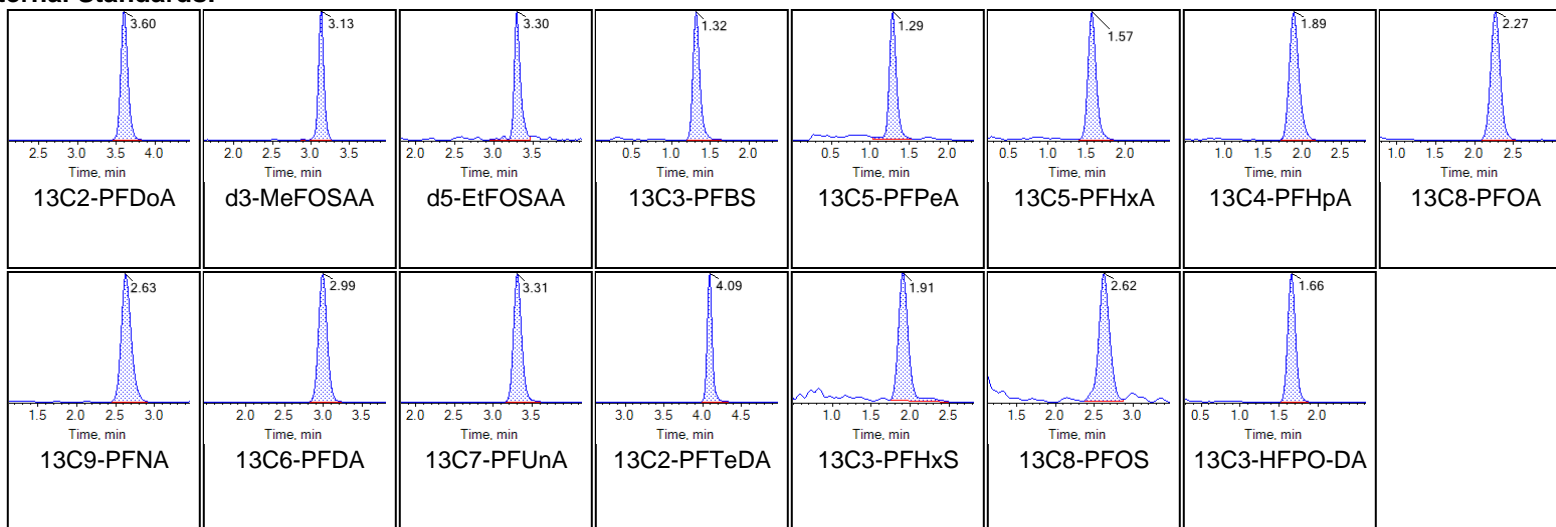


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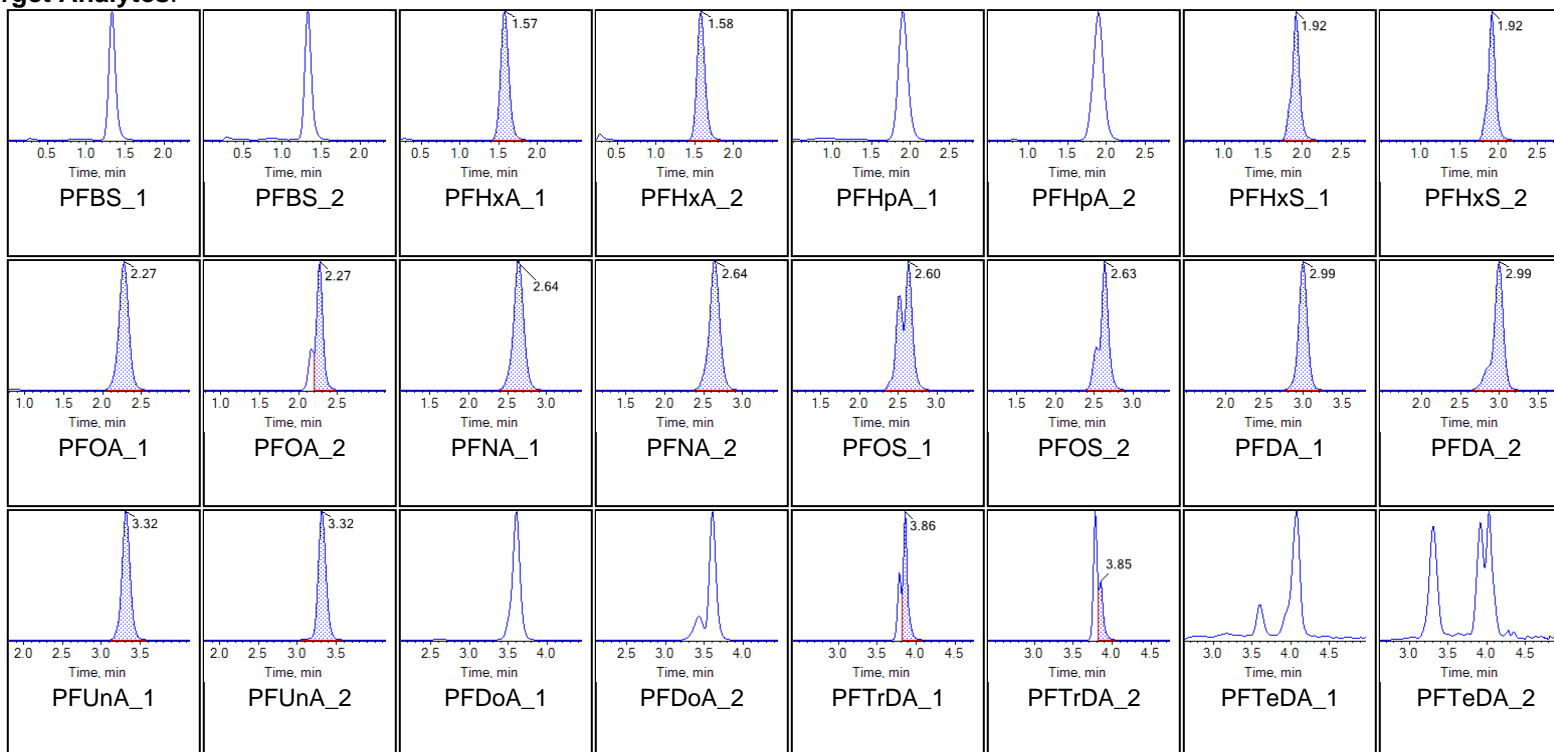
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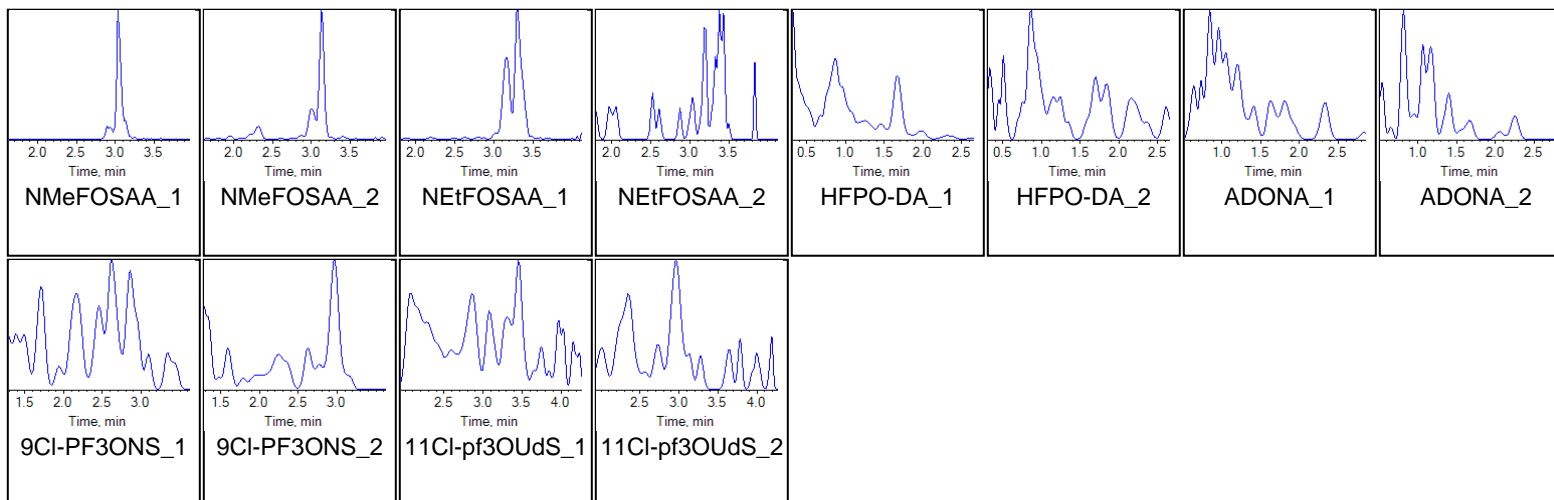


Sample Name	G1765-FS-D(3)	Injection Vial	22
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:36:56 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

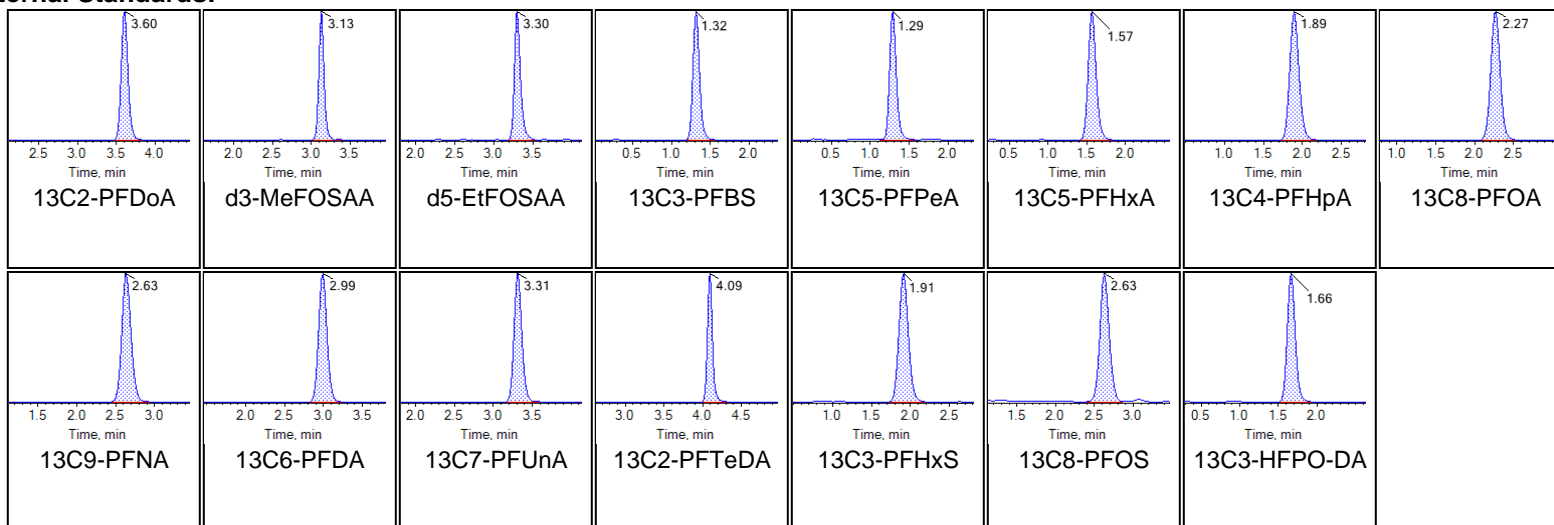
Chromatograms**Target Analytes:**



Chromatogram Report

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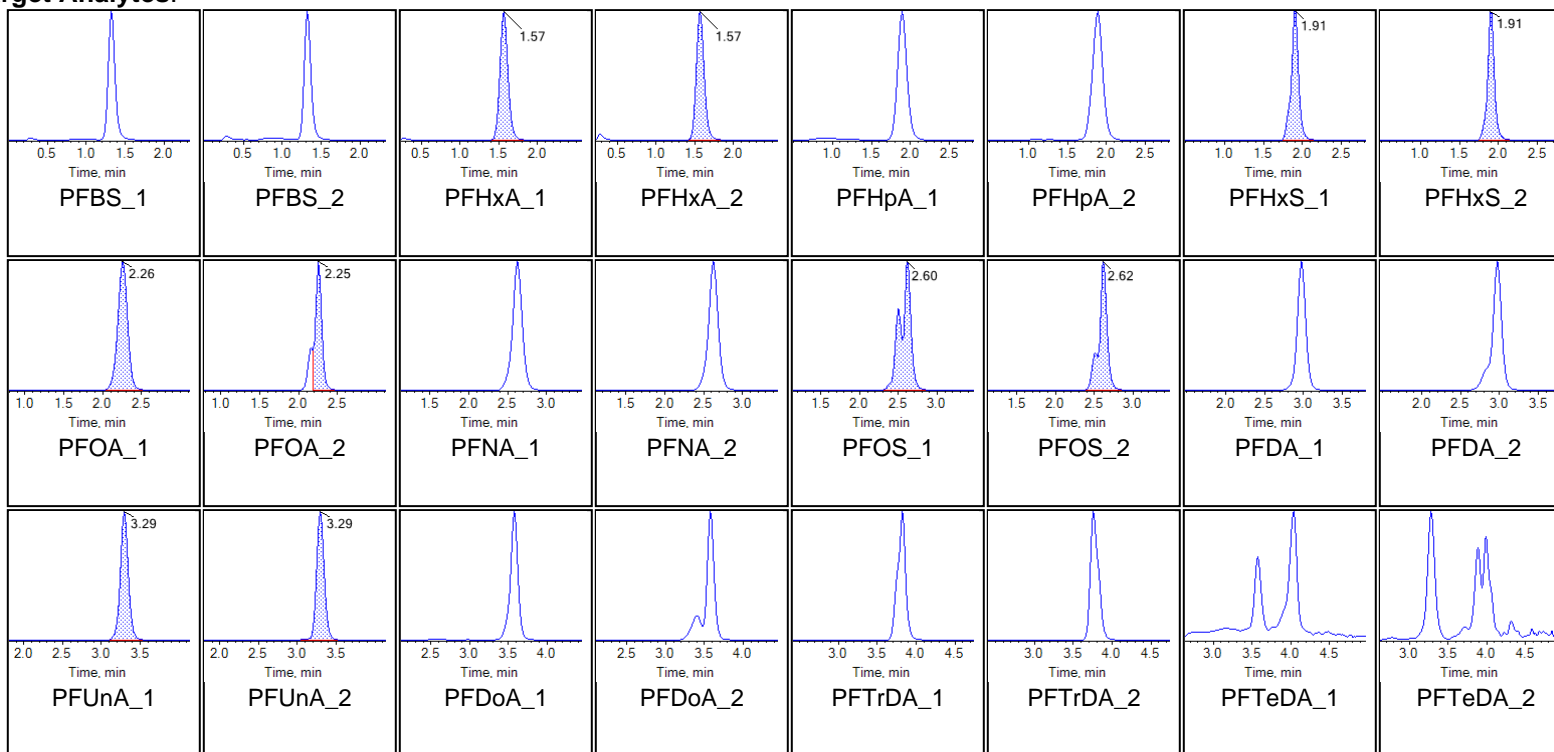
Internal Standards:



Sample Name	G1765-FS-D(5)	Injection Vial	23
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:47:24 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

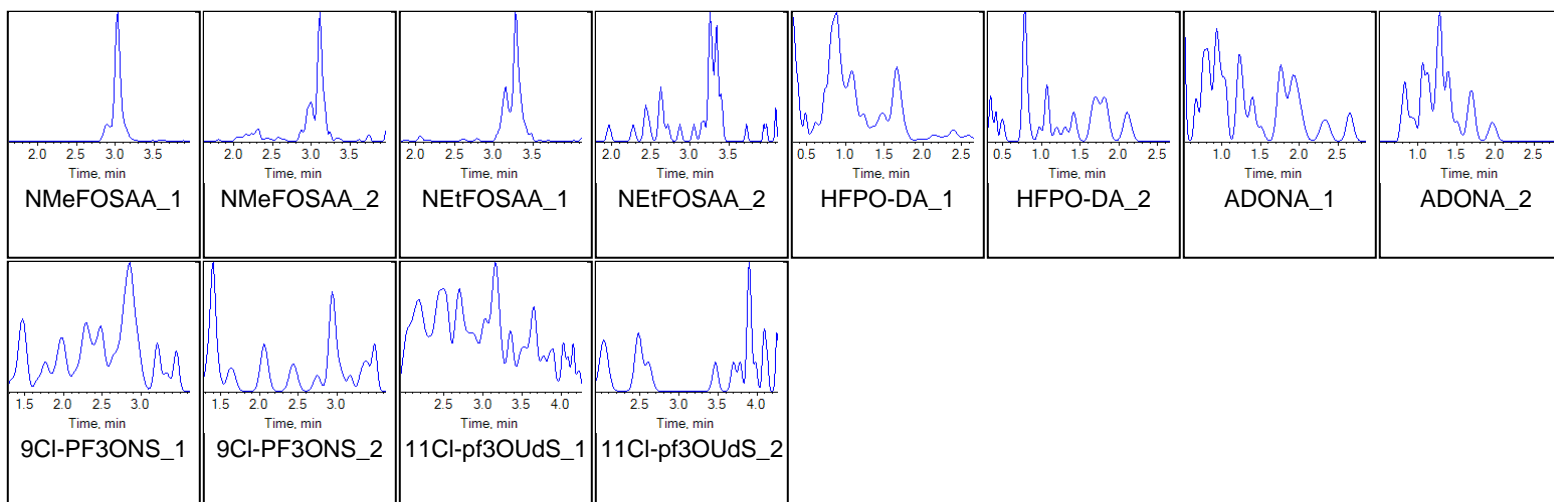
Chromatograms

Target Analytes:

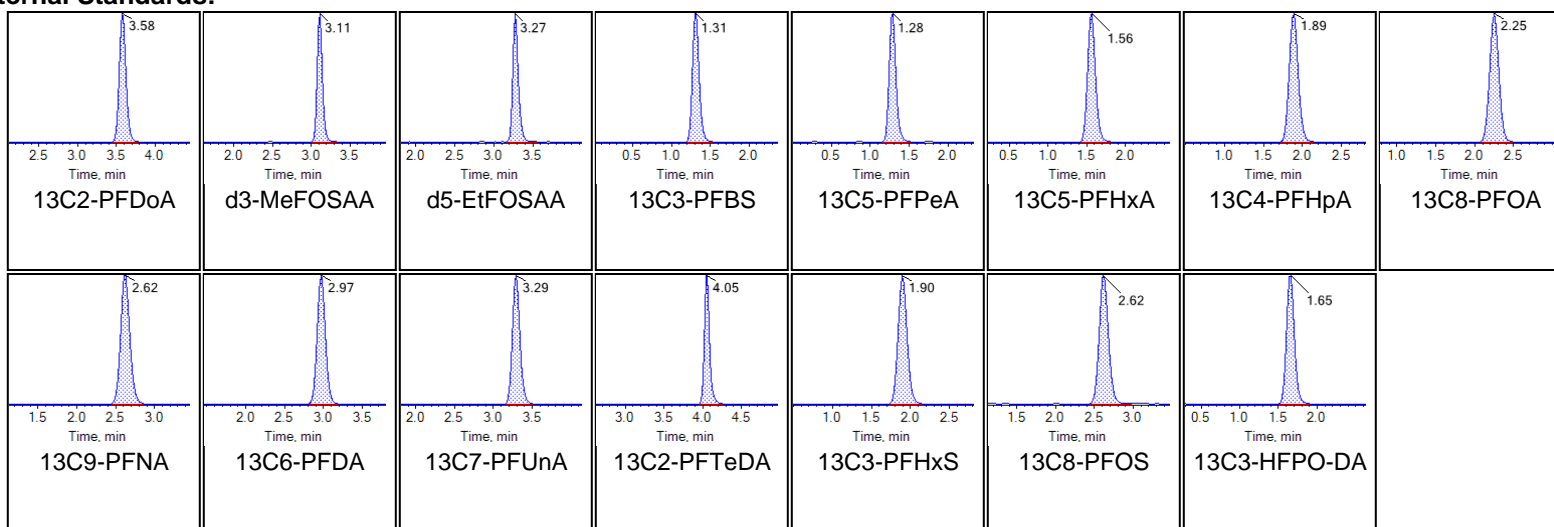




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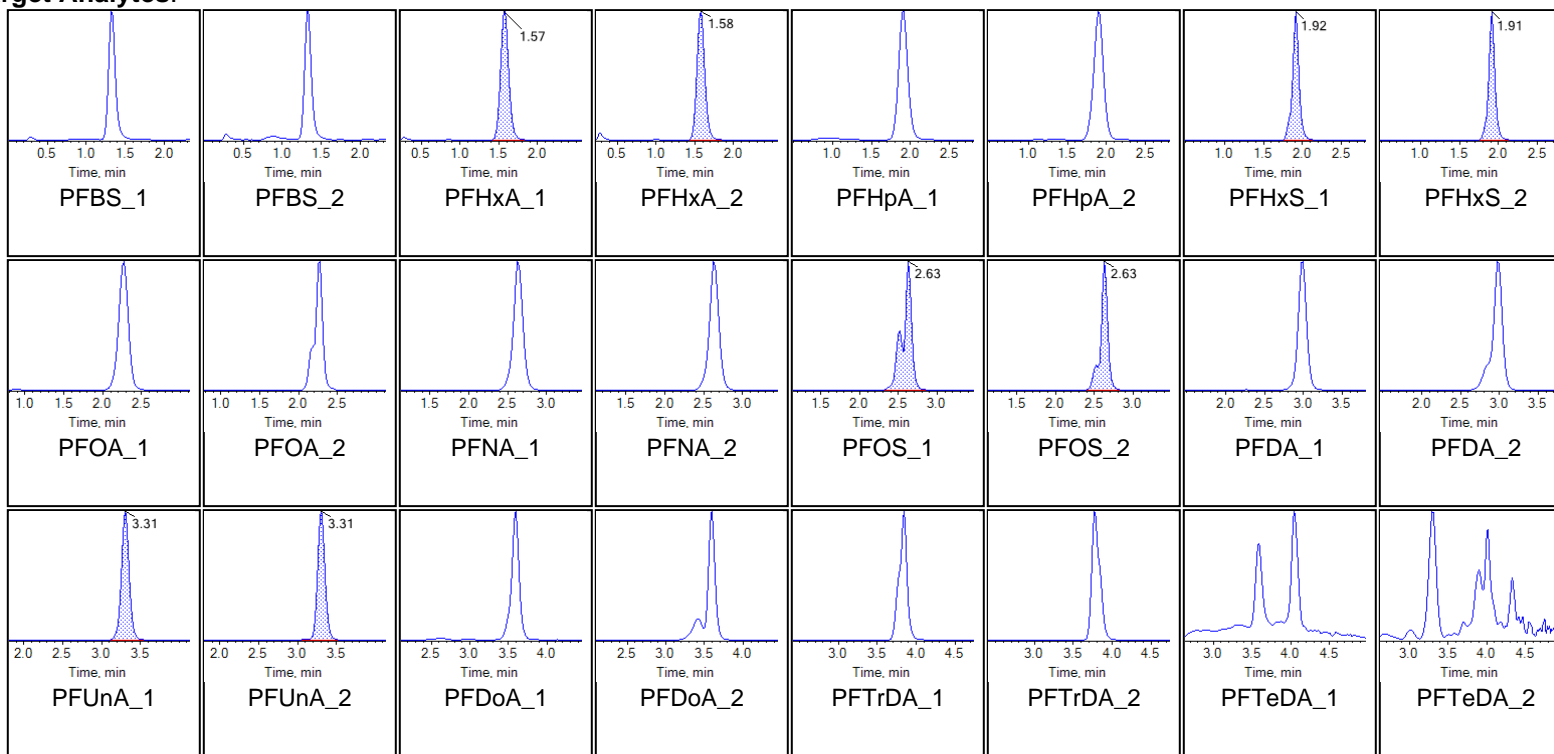
Internal Standards:



Sample Name	G1765-FS-D(7)	Injection Vial	24
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:57:52 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

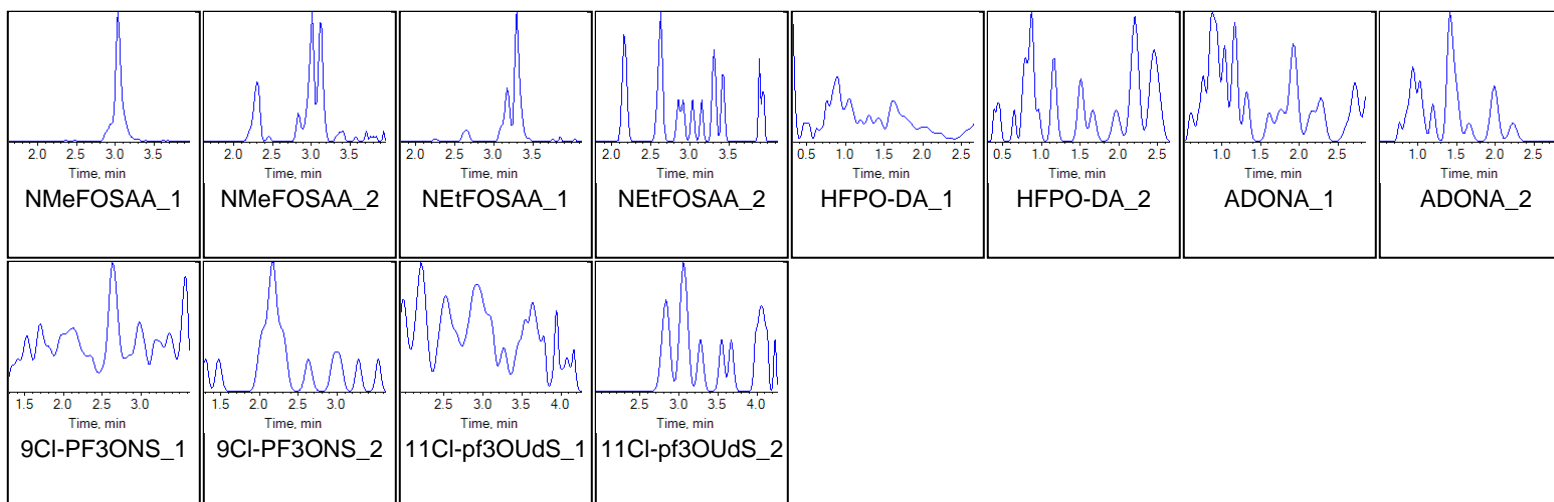
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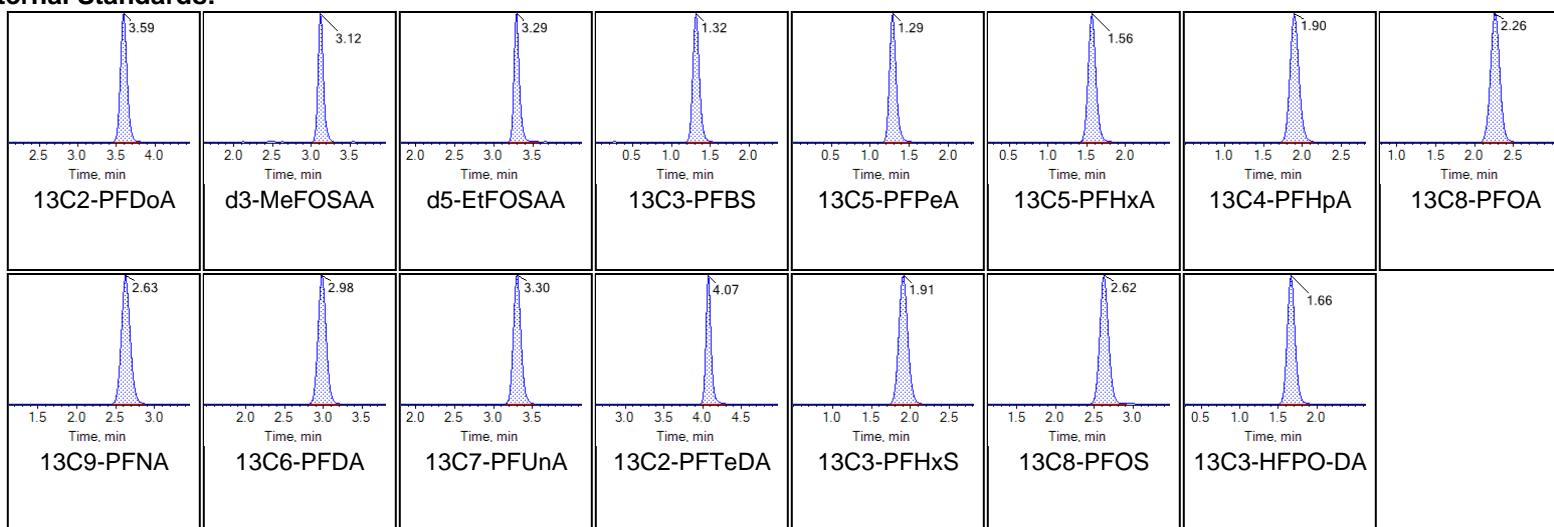




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Internal Standards:





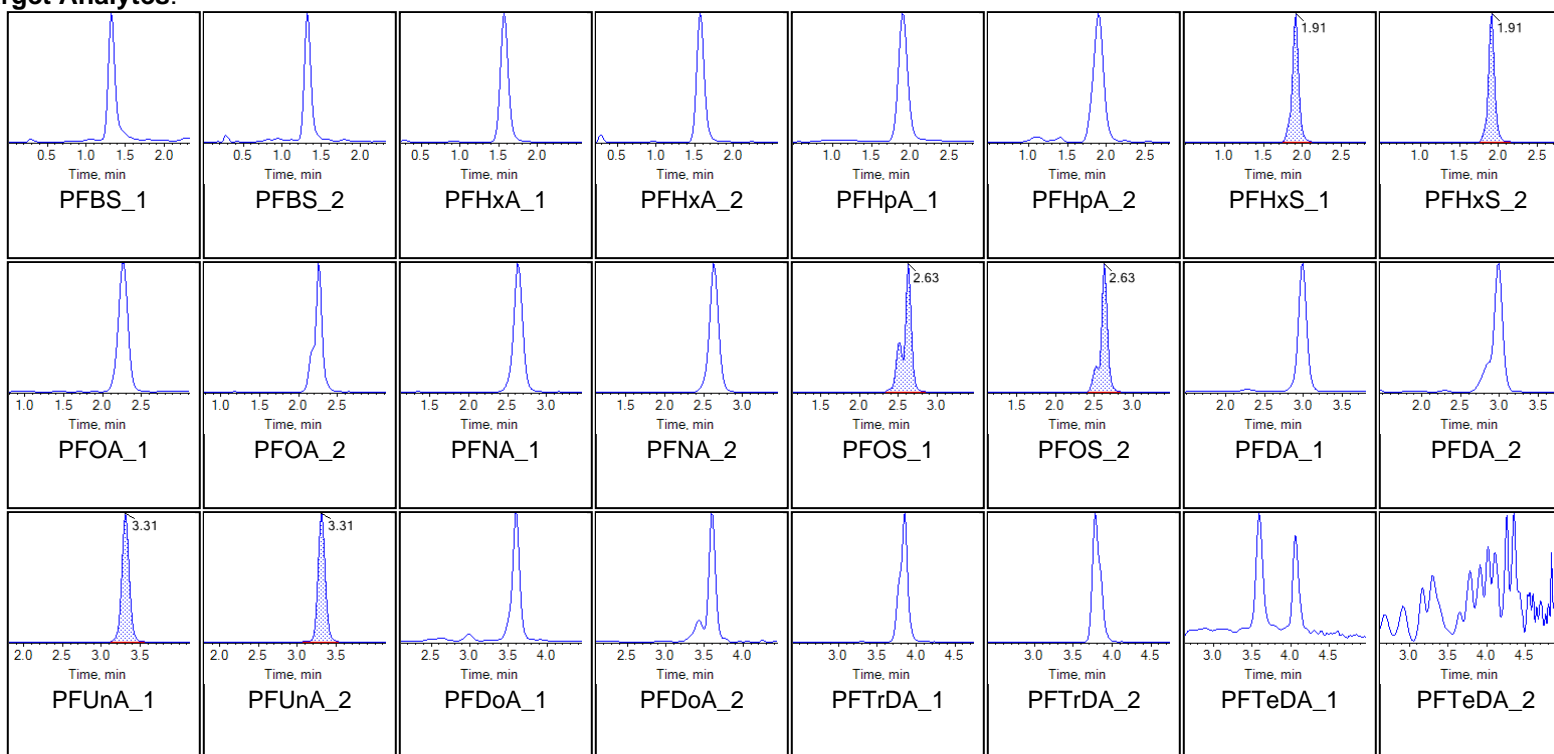
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 PM

Sample Name	G1765-FS-D(9)	Injection Vial	25
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:08:20 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

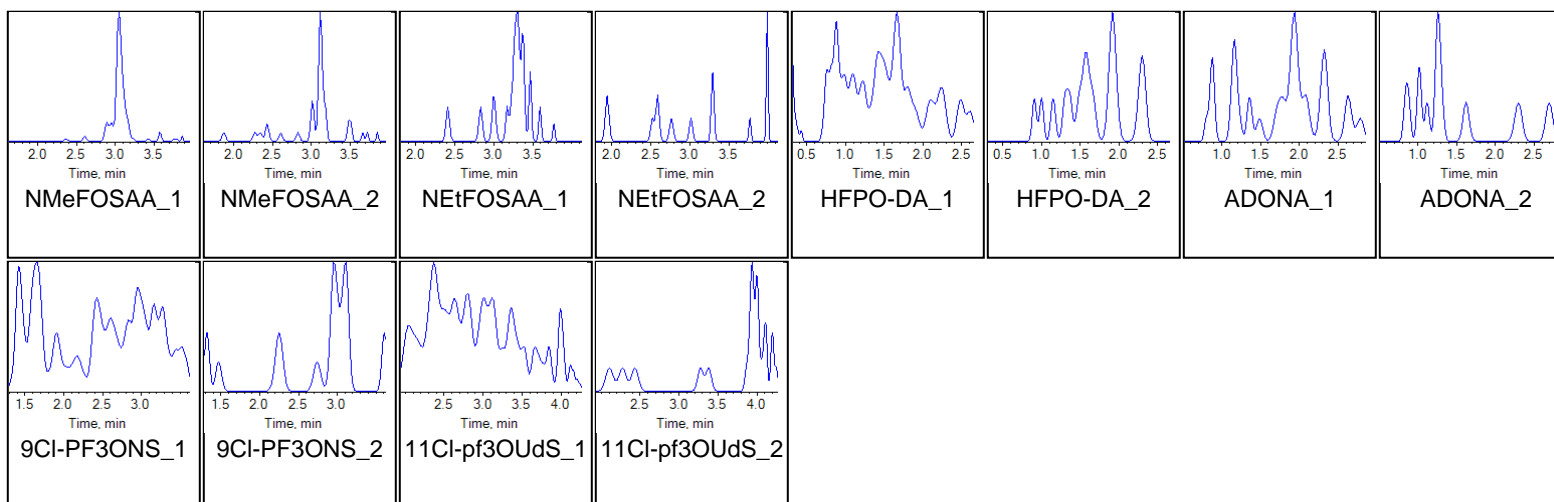
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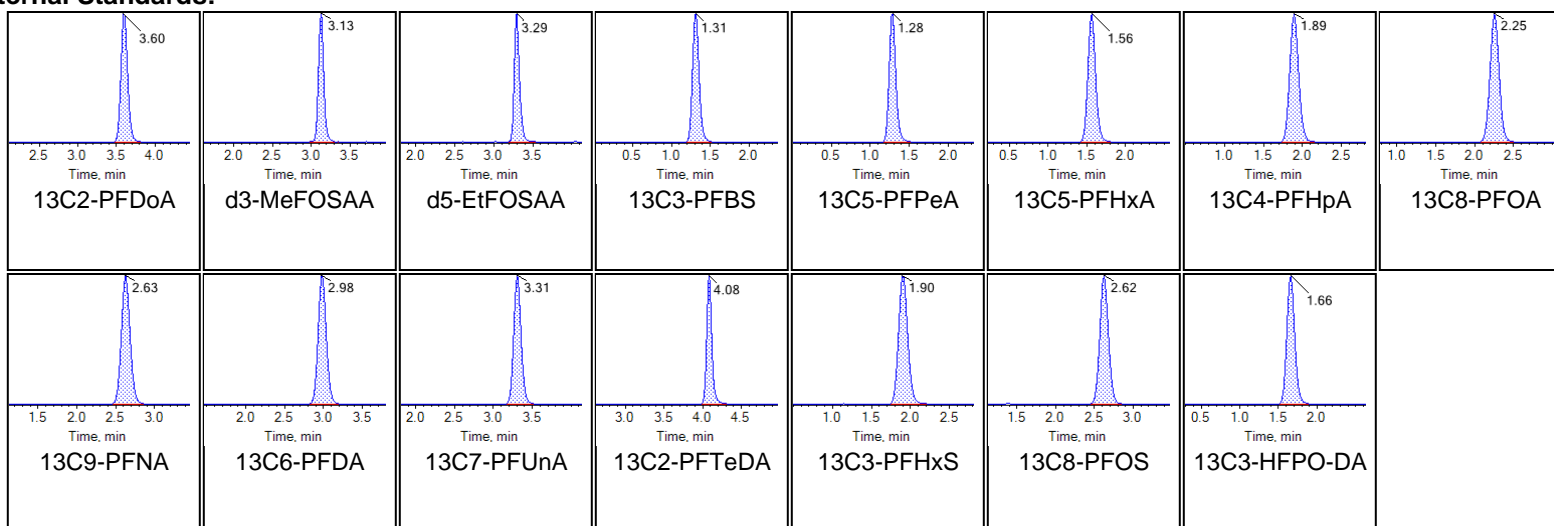




Chromatogram Report

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Internal Standards:





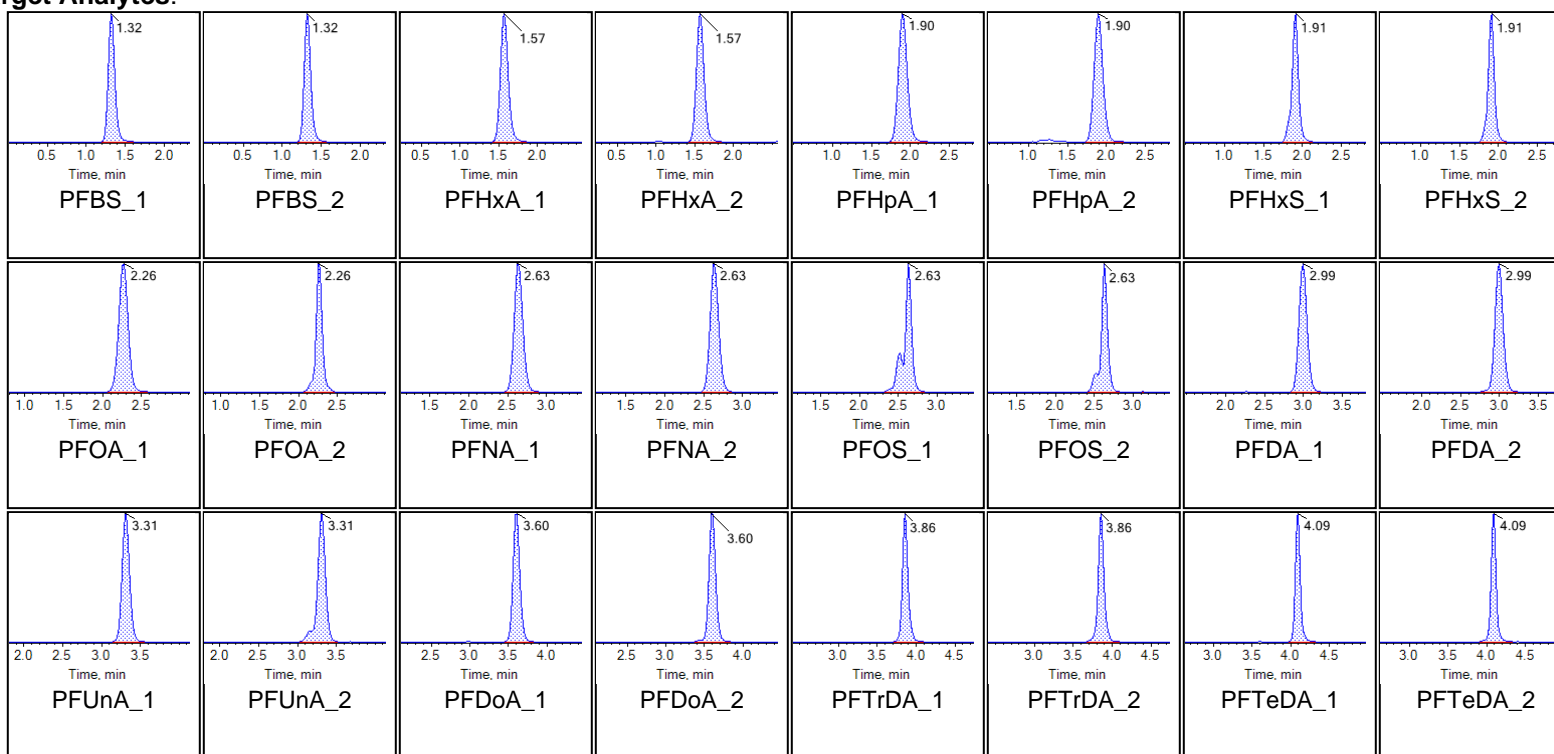
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 PM

Sample Name	LE77 CCV	Injection Vial	27
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
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Chromatograms

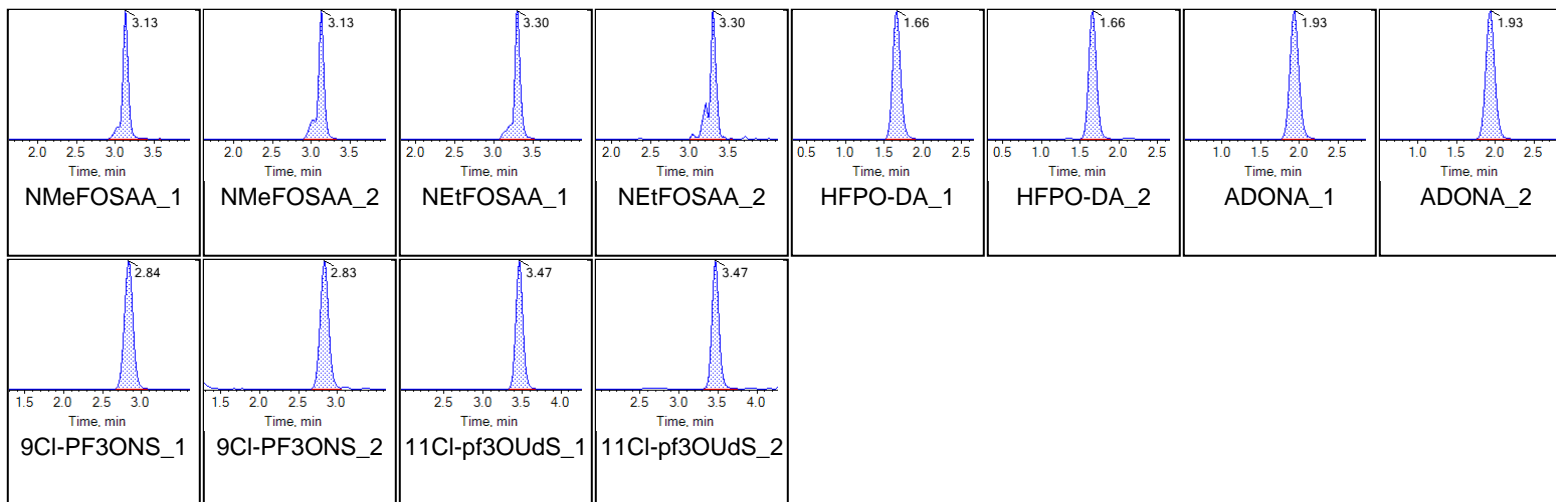
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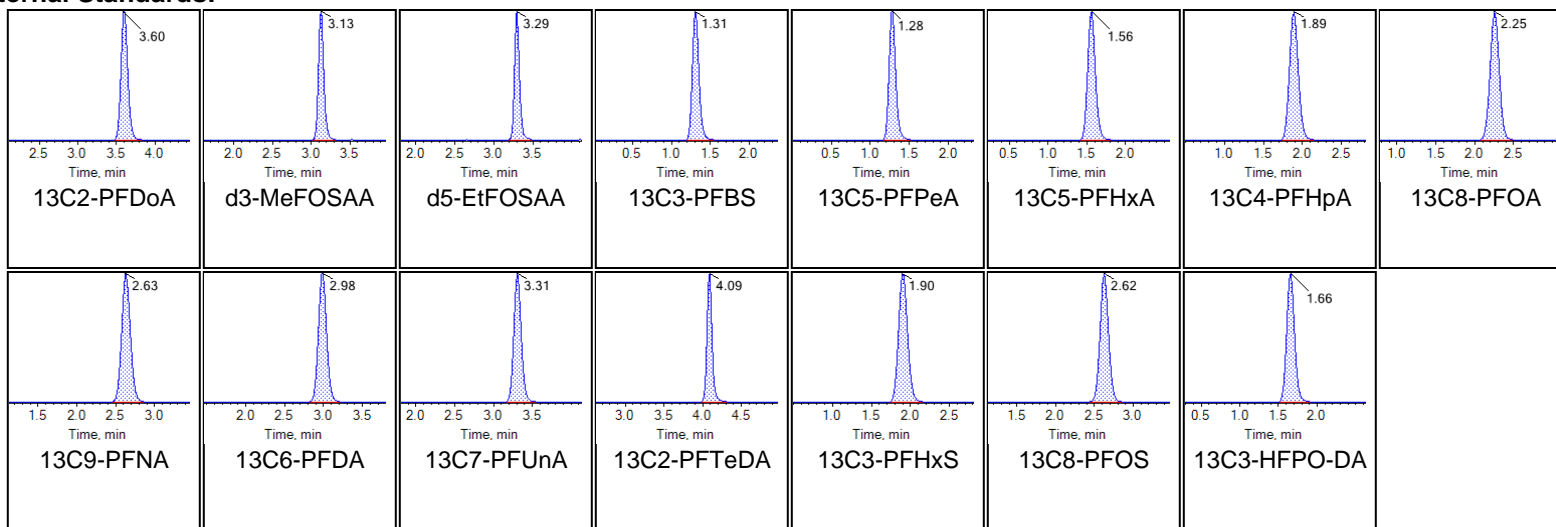


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Internal Standards:





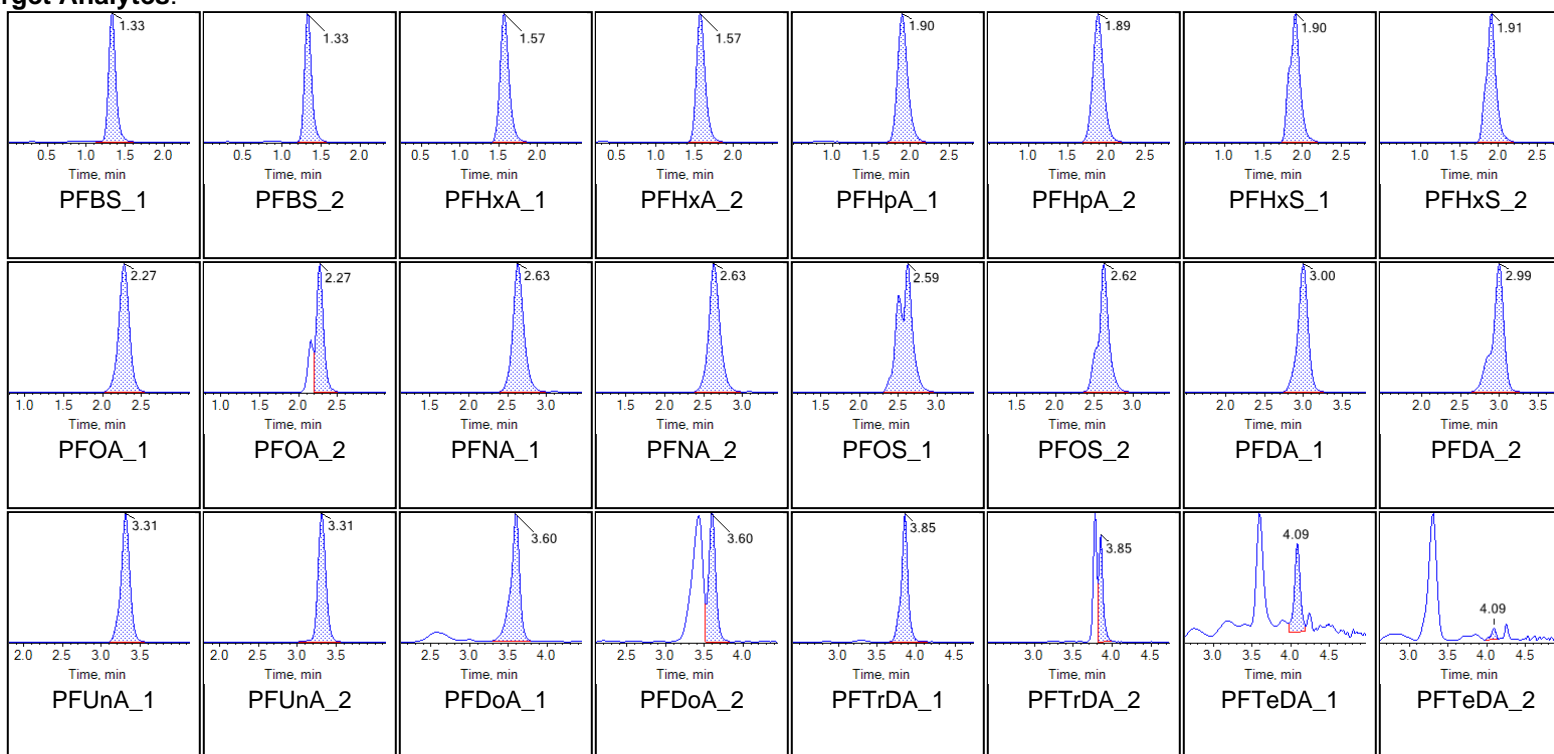
Chromatogram Report

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Printed: 17/11/2020 1:39:32 PM

Sample Name	G1766-FS(0)	Injection Vial	28
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:39:43 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

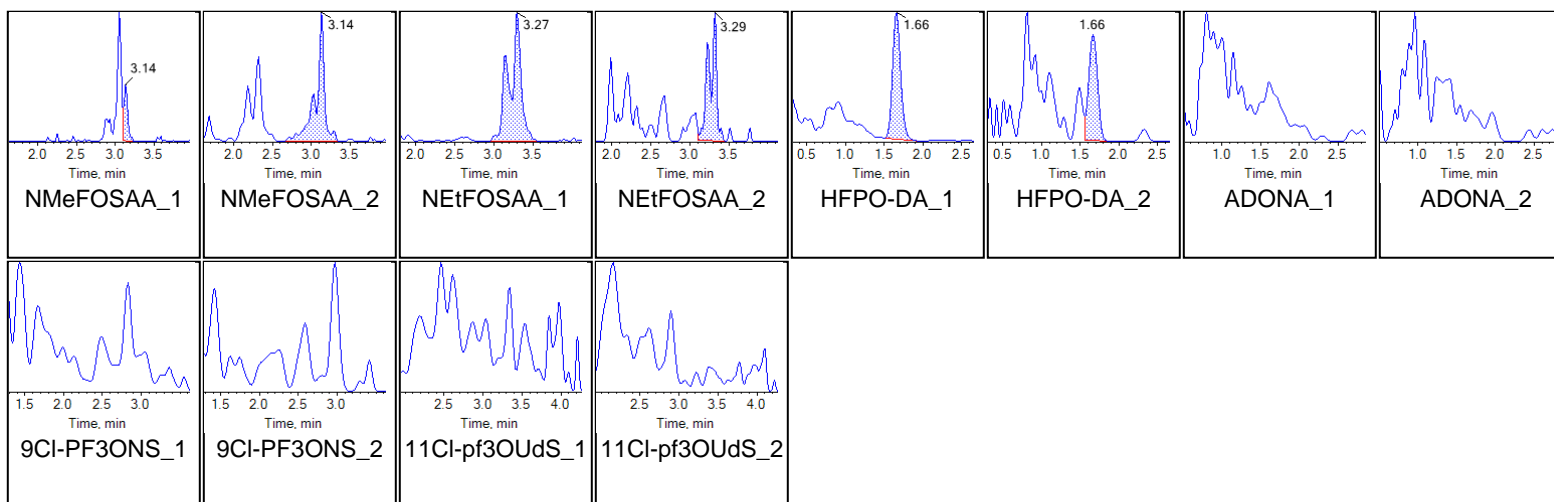
Chromatograms

Target Analytes:

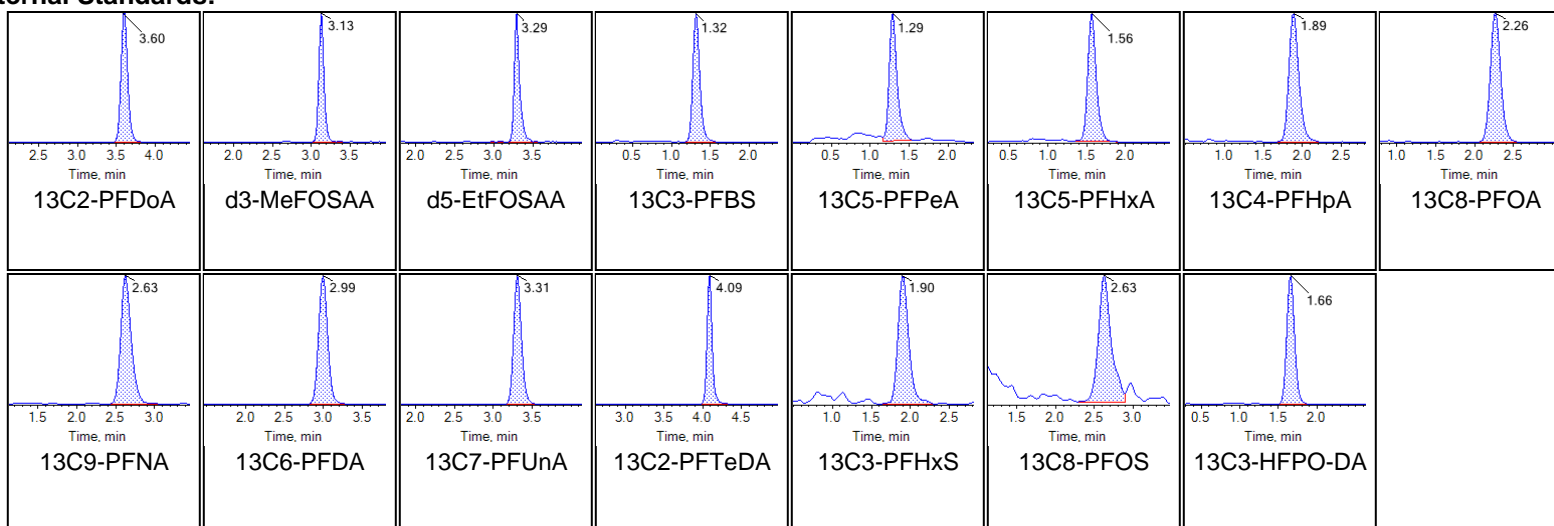




Chromatogram Report

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Printed: 17/11/2020 1:39:32 PM

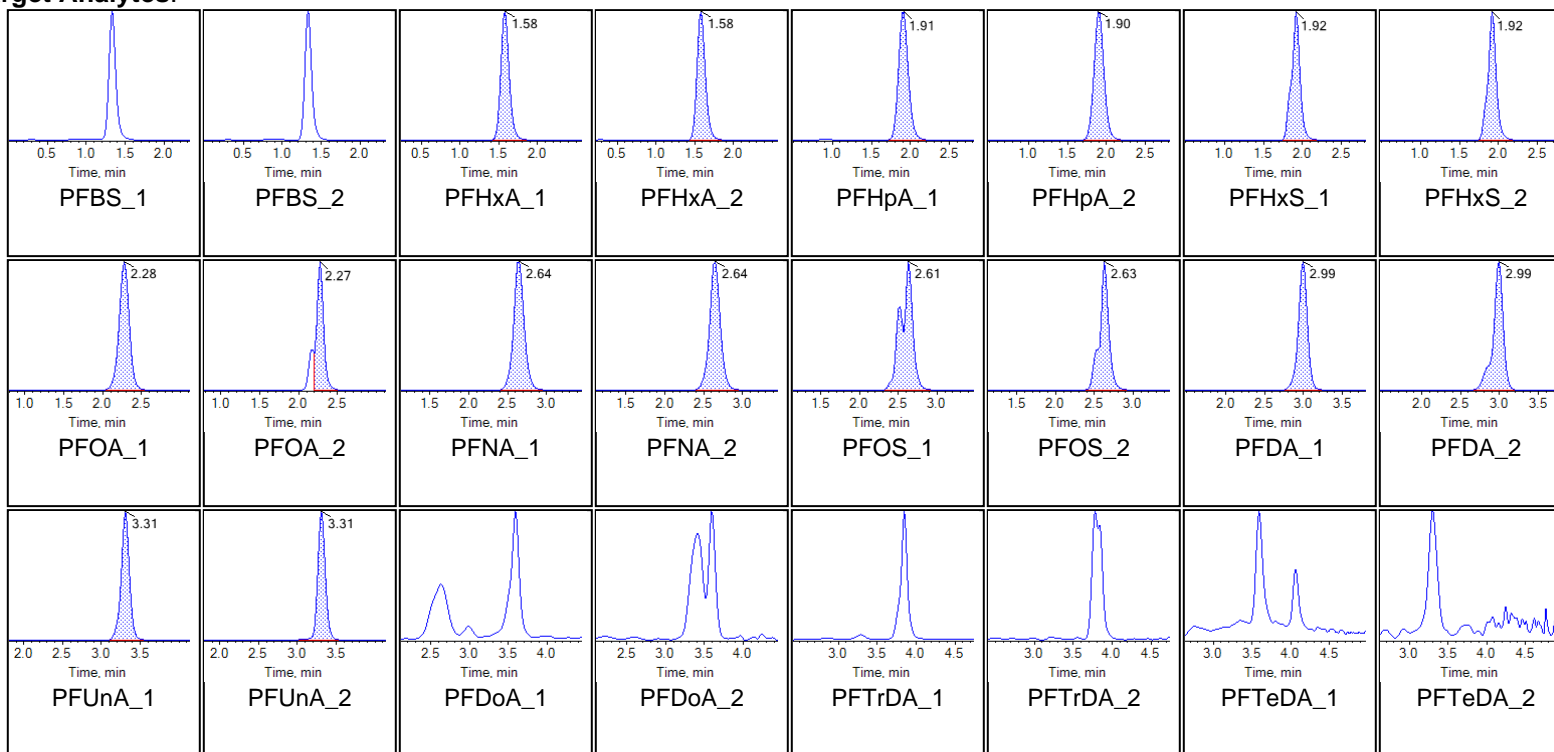
Internal Standards:



Sample Name	G1766-FS-D(3)	Injection Vial	29
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:50:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

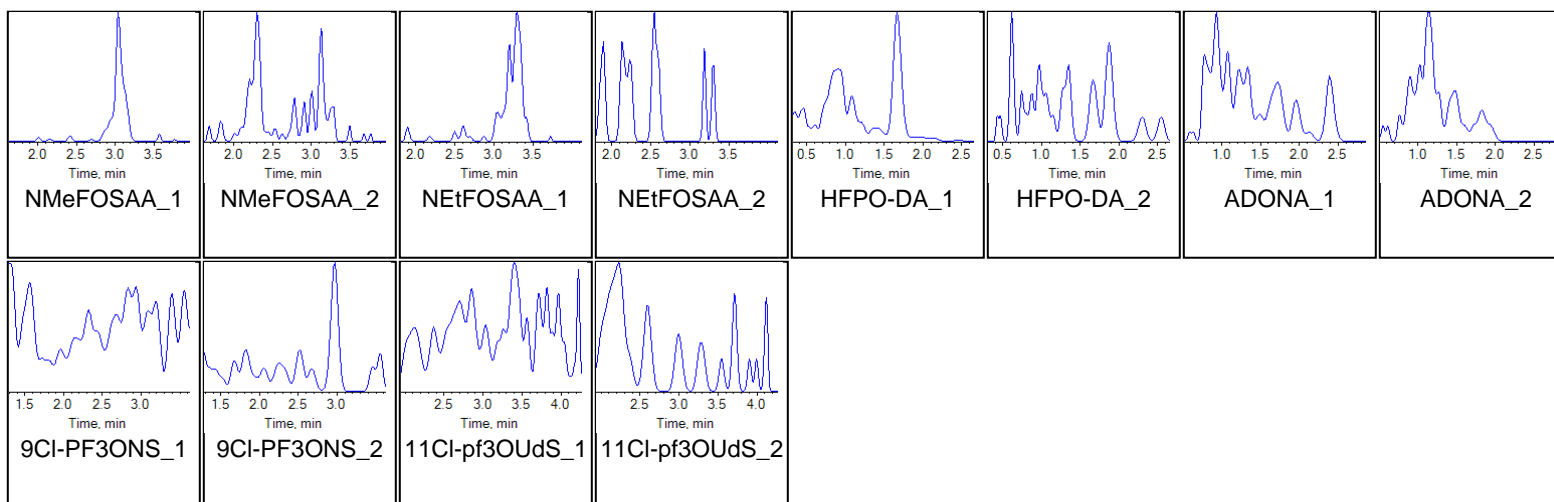
Chromatograms

Target Analytes:

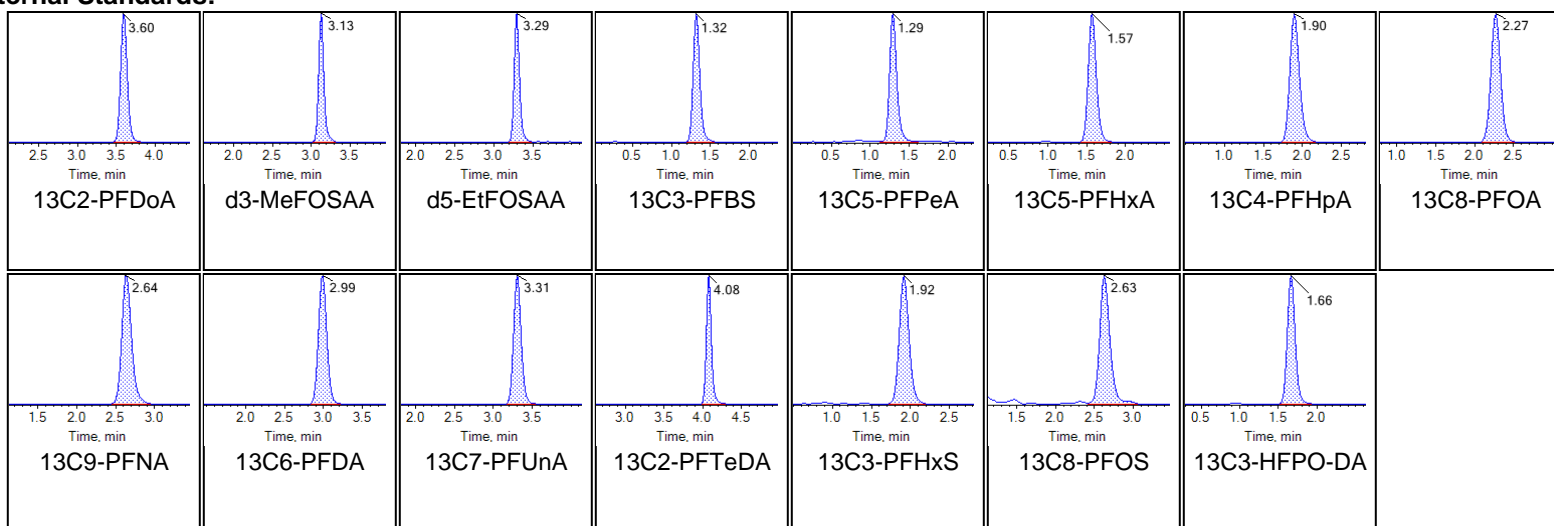




Chromatogram Report

Created with Analyst Reporter
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Internal Standards:





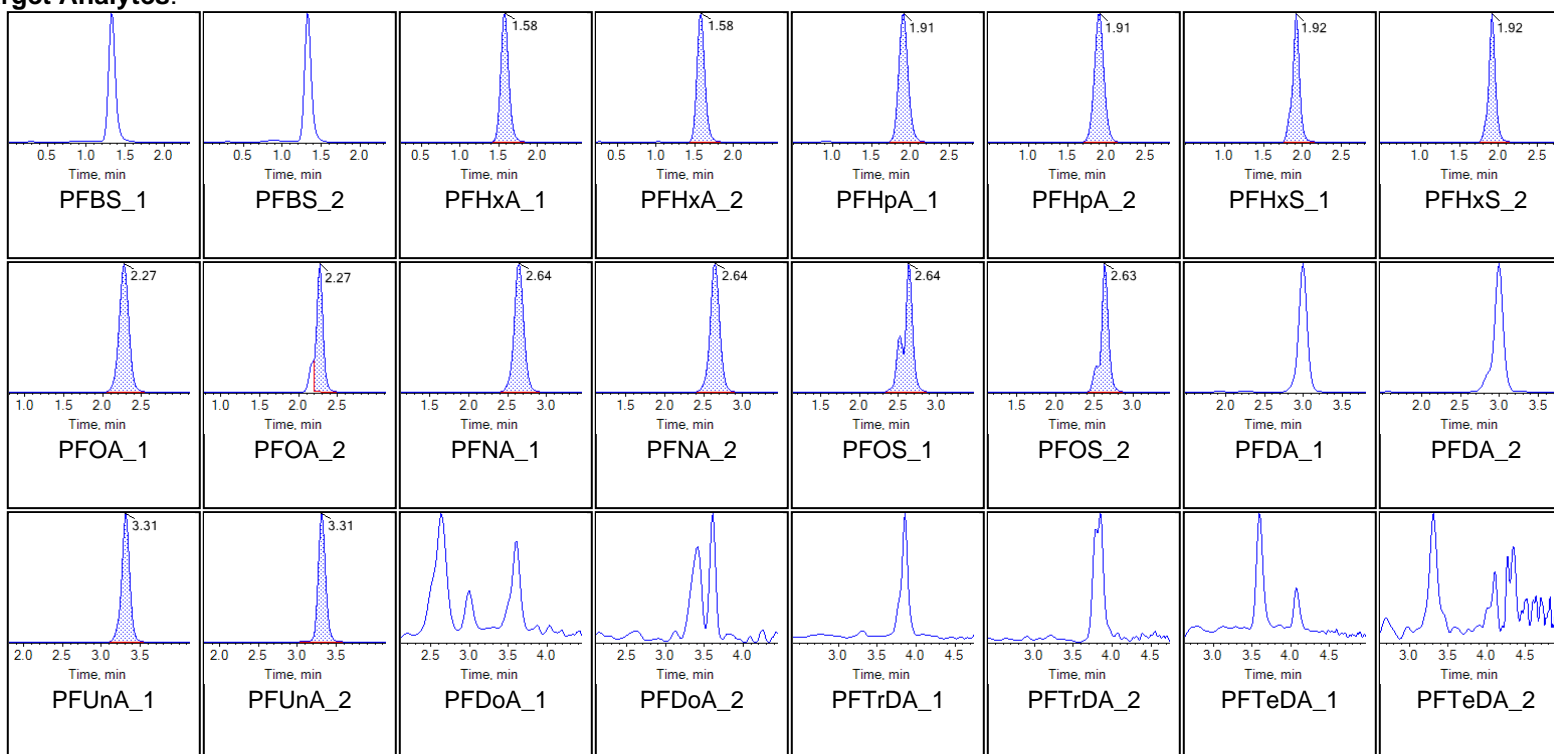
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 PM

Sample Name	G1766-FS-D(5)	Injection Vial	30
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:00:39 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

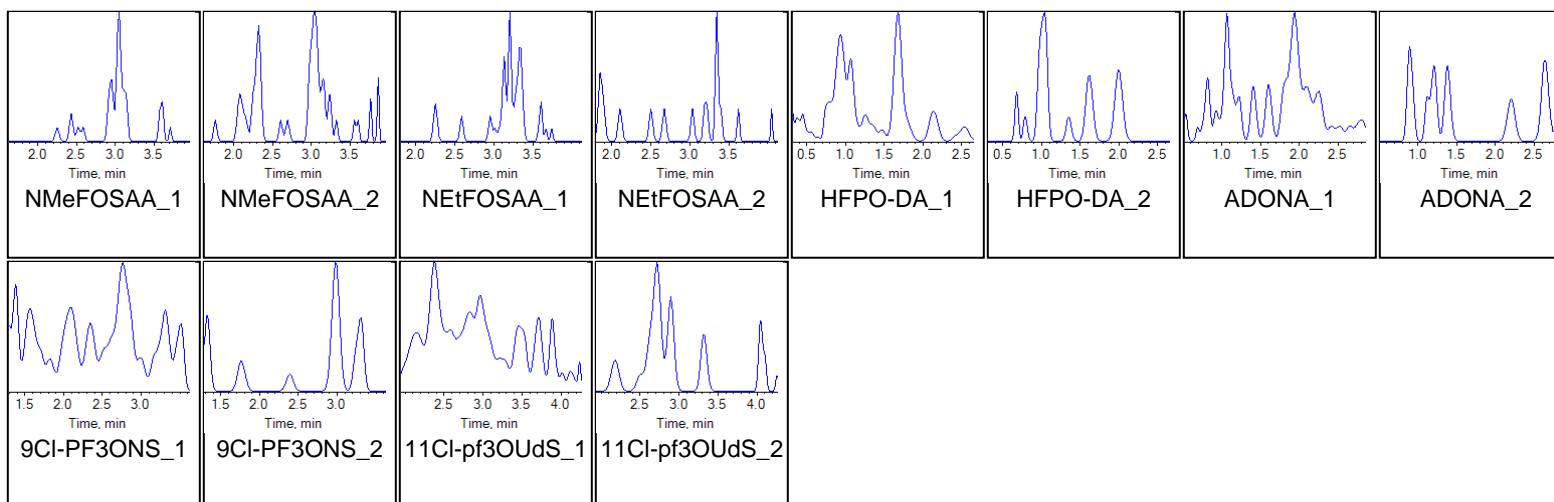
Chromatograms

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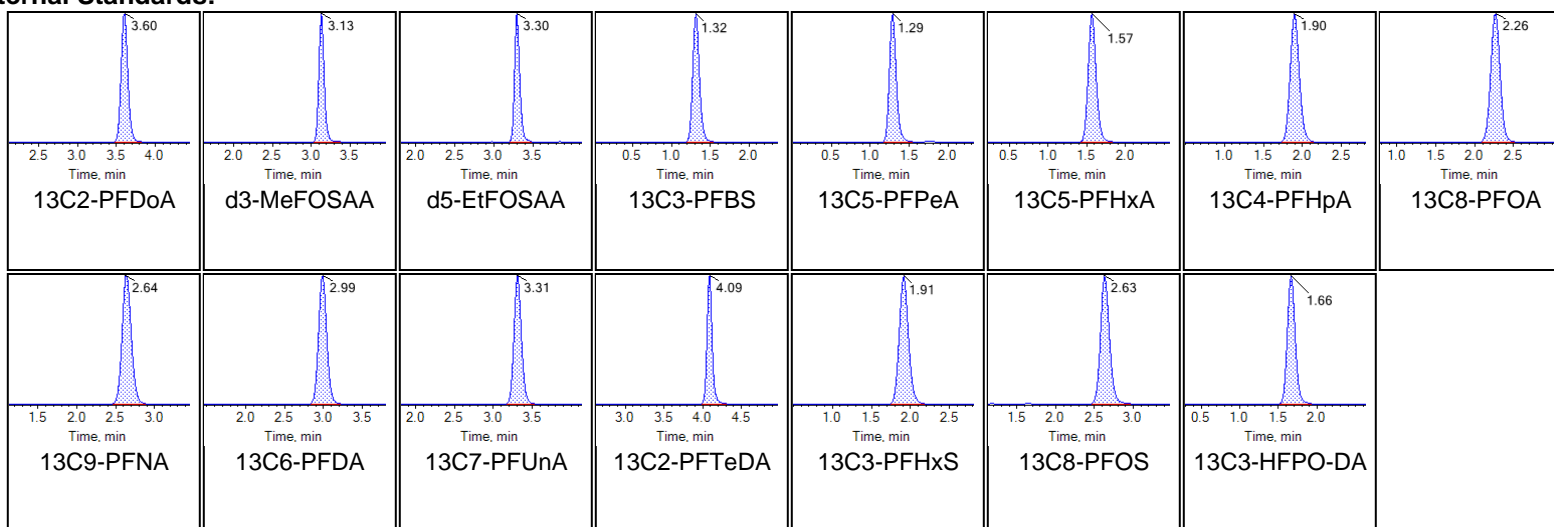




Chromatogram Report

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Internal Standards:





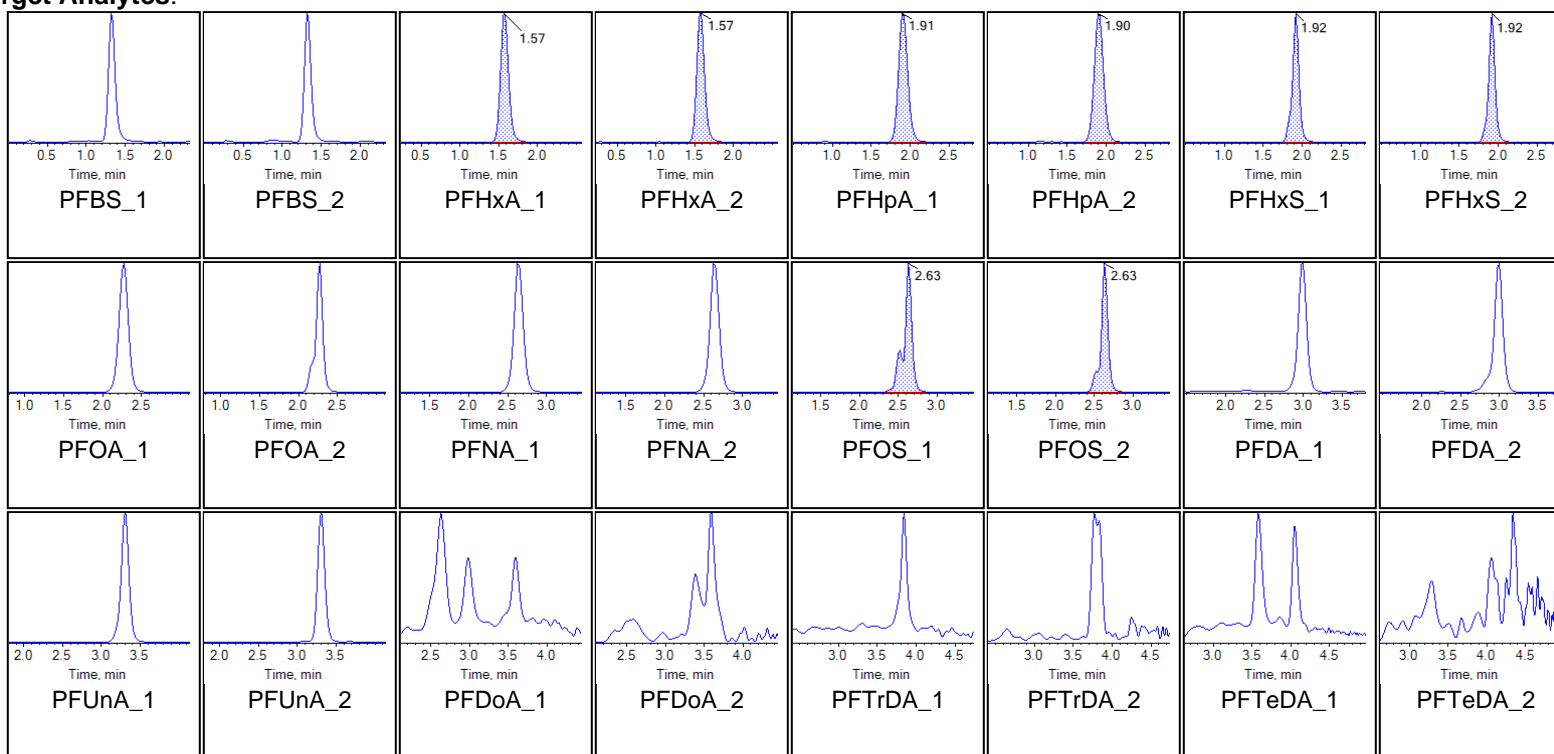
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 PM

Sample Name	G1766-FS-D(7)	Injection Vial	31
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:11:06 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

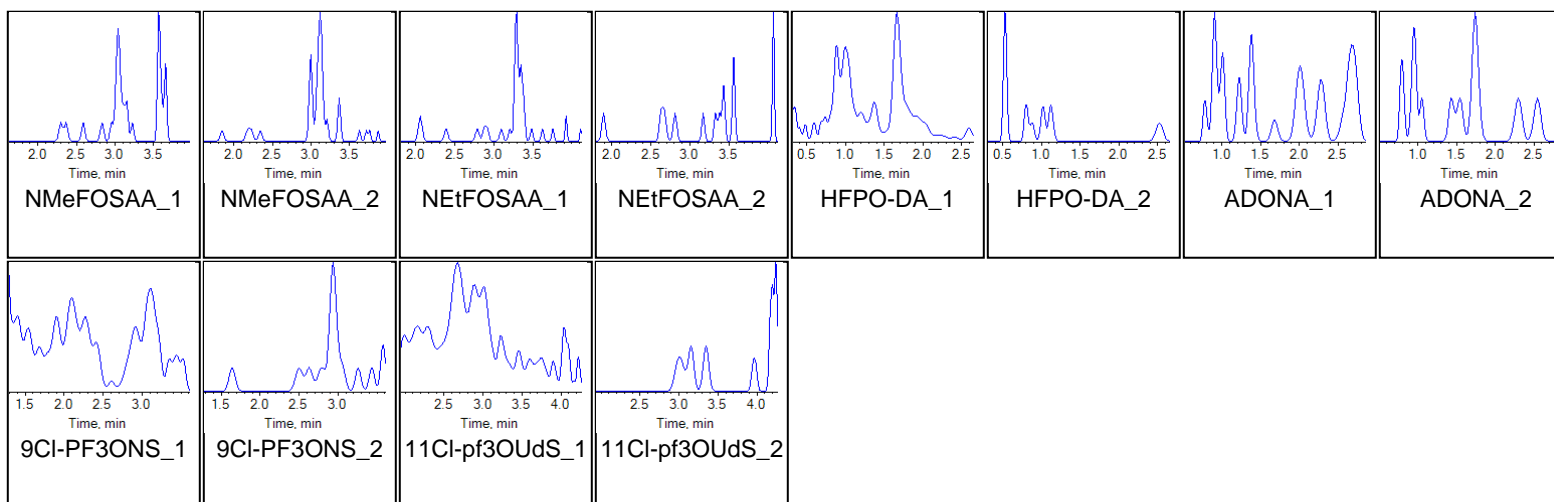
Chromatograms

Target Analytes:

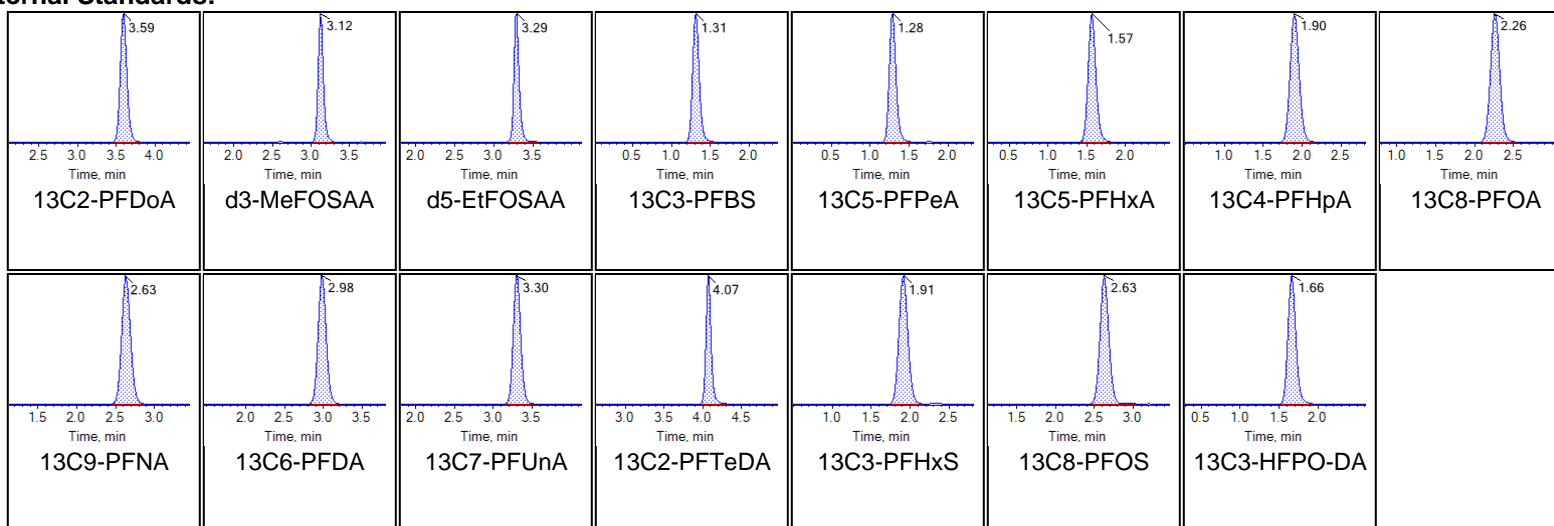




Chromatogram Report

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Printed: 17/11/2020 1:39:32 PM

Internal Standards:





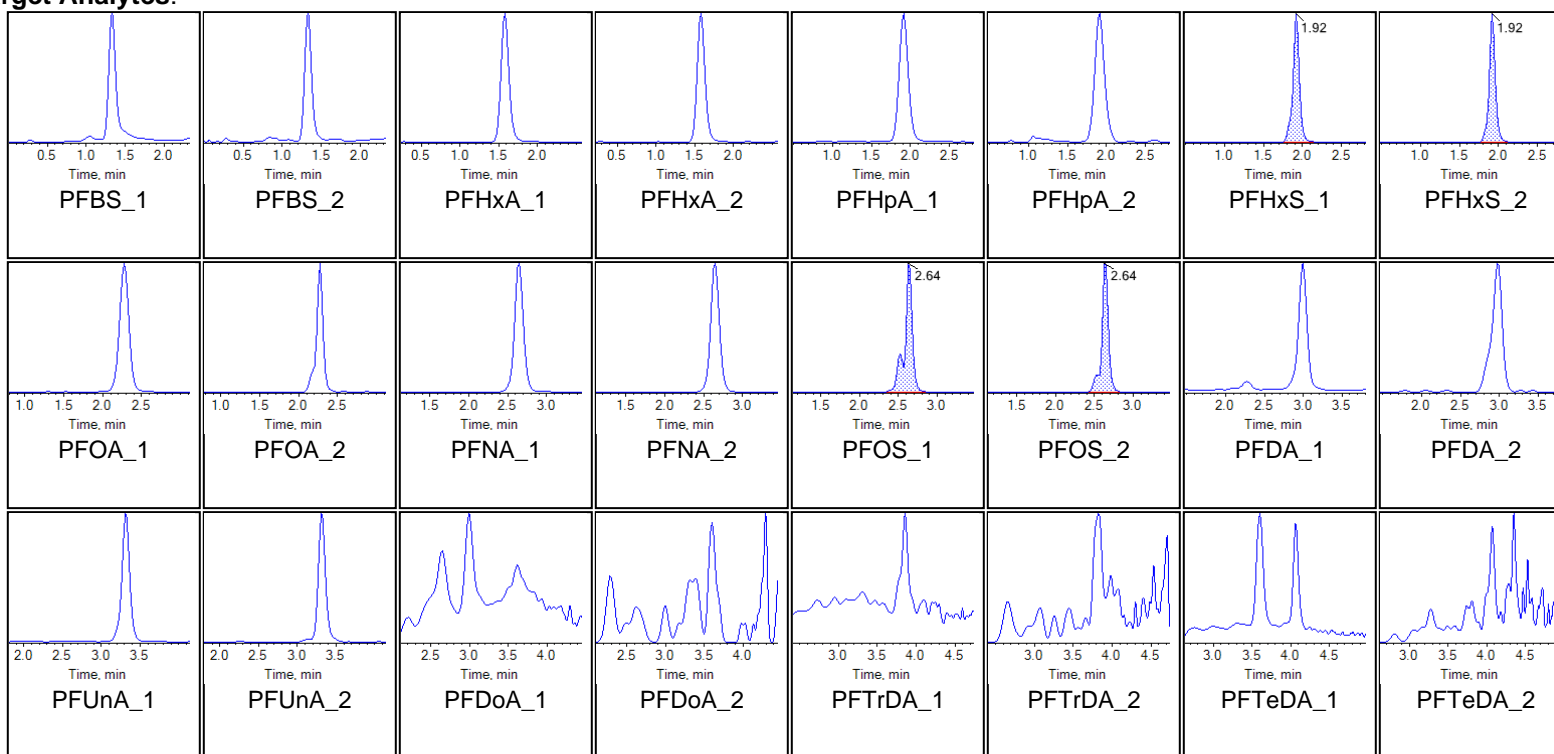
Chromatogram Report

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Printed: 17/11/2020 1:39:32 PM

Sample Name	G1766-FS-D(9)	Injection Vial	32
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:21:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

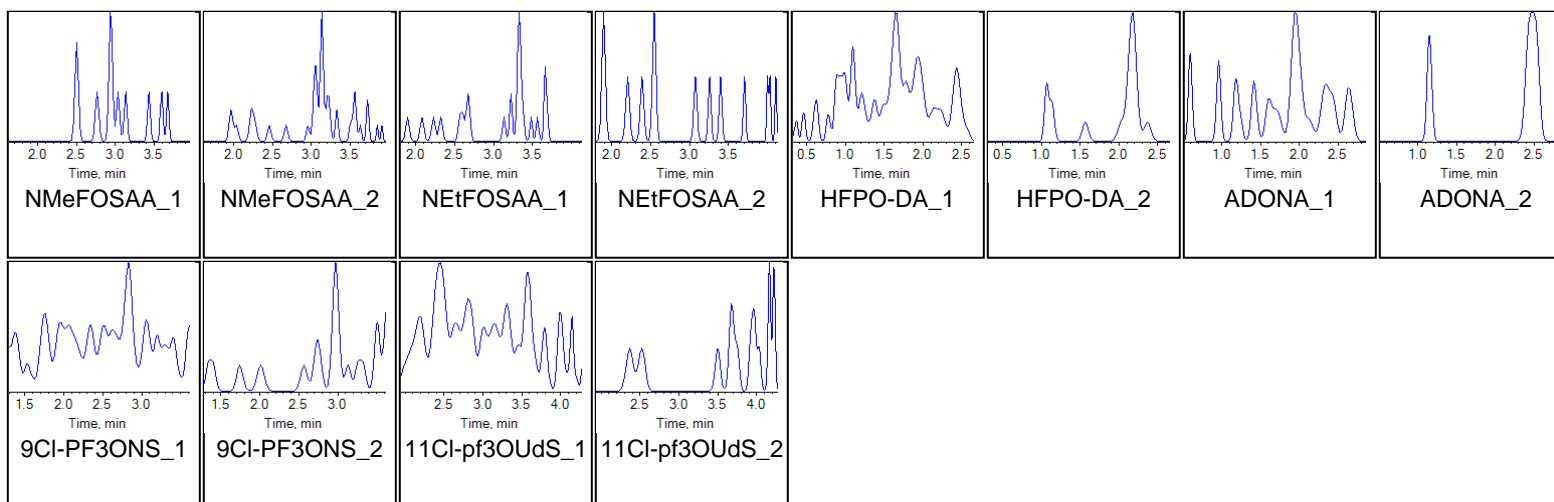
Chromatograms

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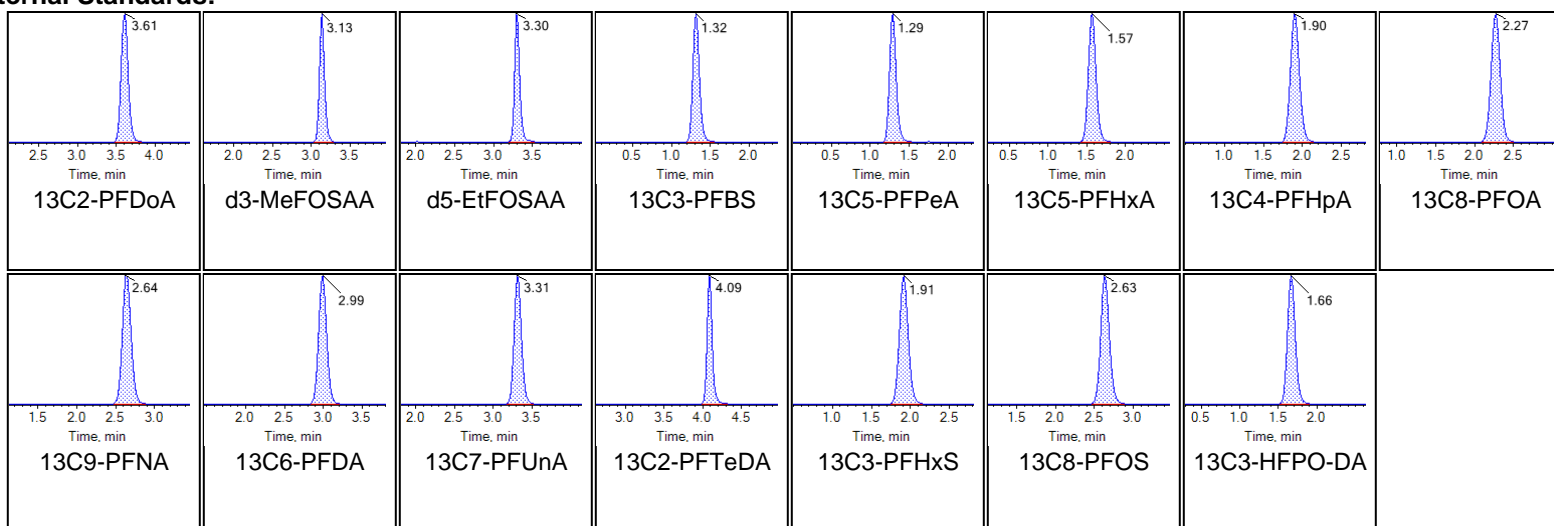




Chromatogram Report

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Internal Standards:





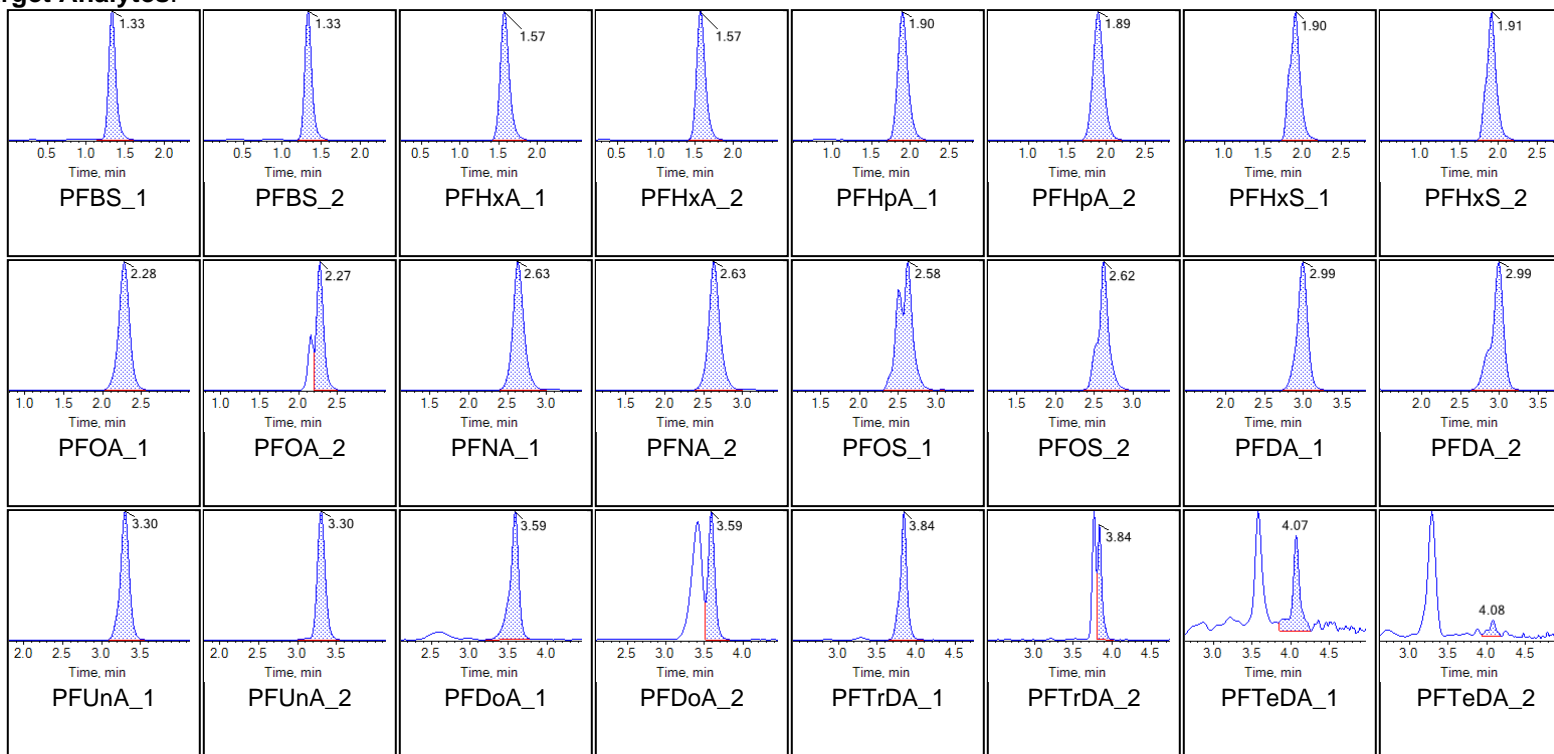
Chromatogram Report

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 Printed: 17/11/2020 1:39:32 PM

Sample Name	G1767-FS(0)	Injection Vial	33
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:32:03 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

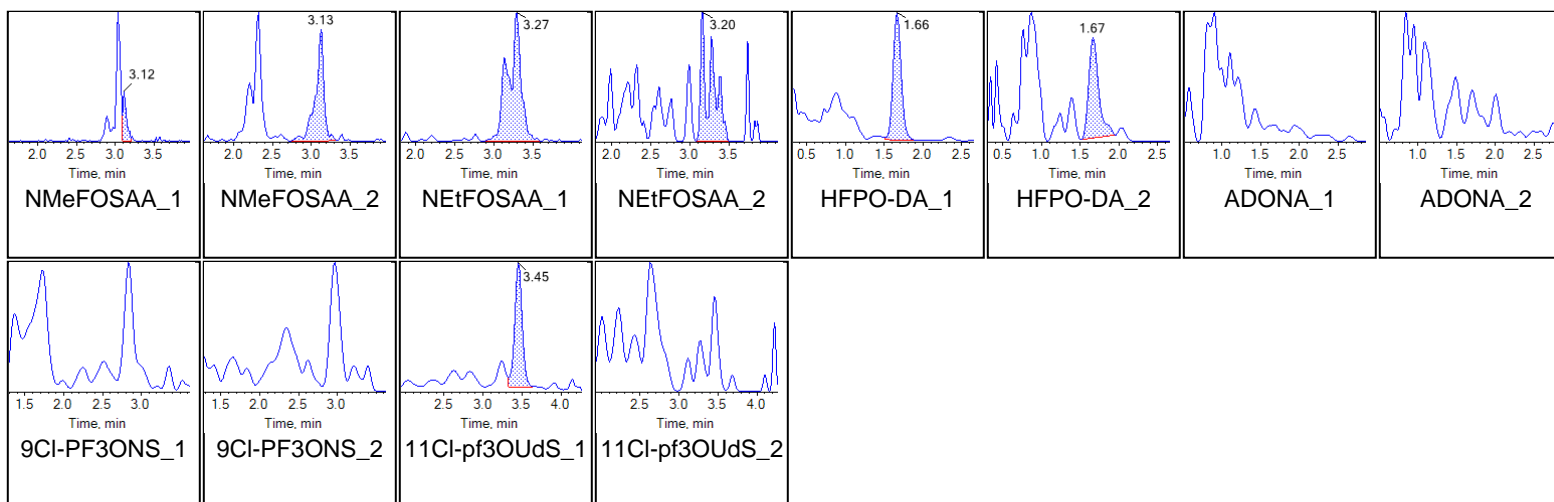
Chromatograms

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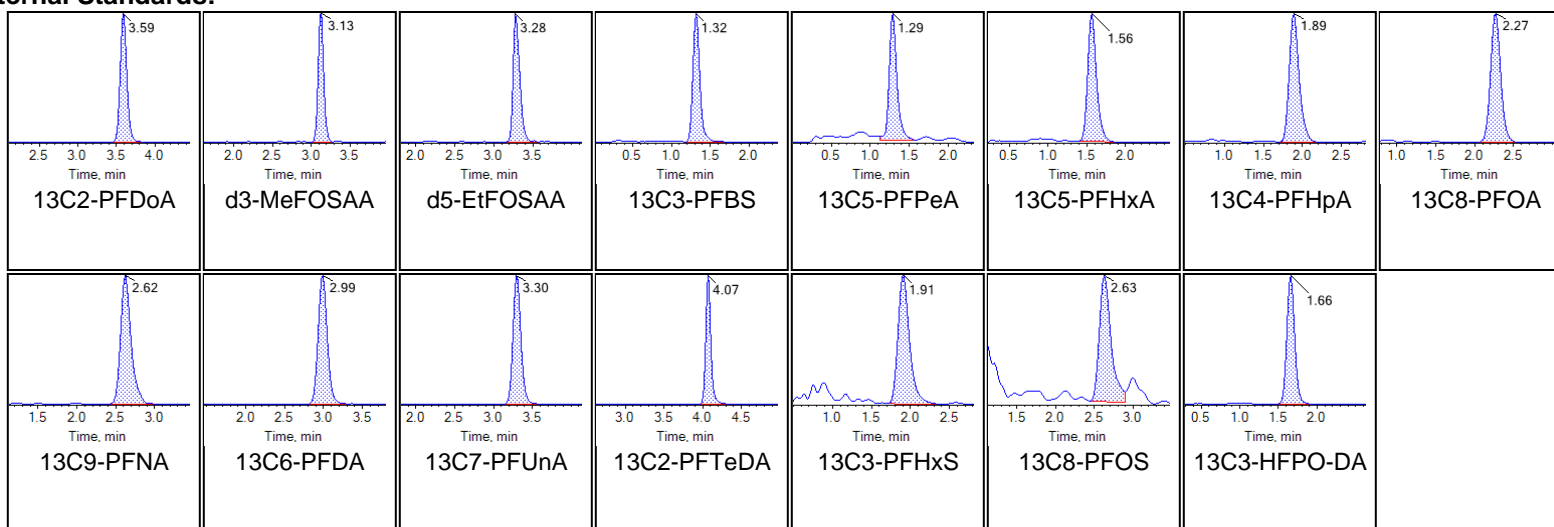




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Internal Standards:





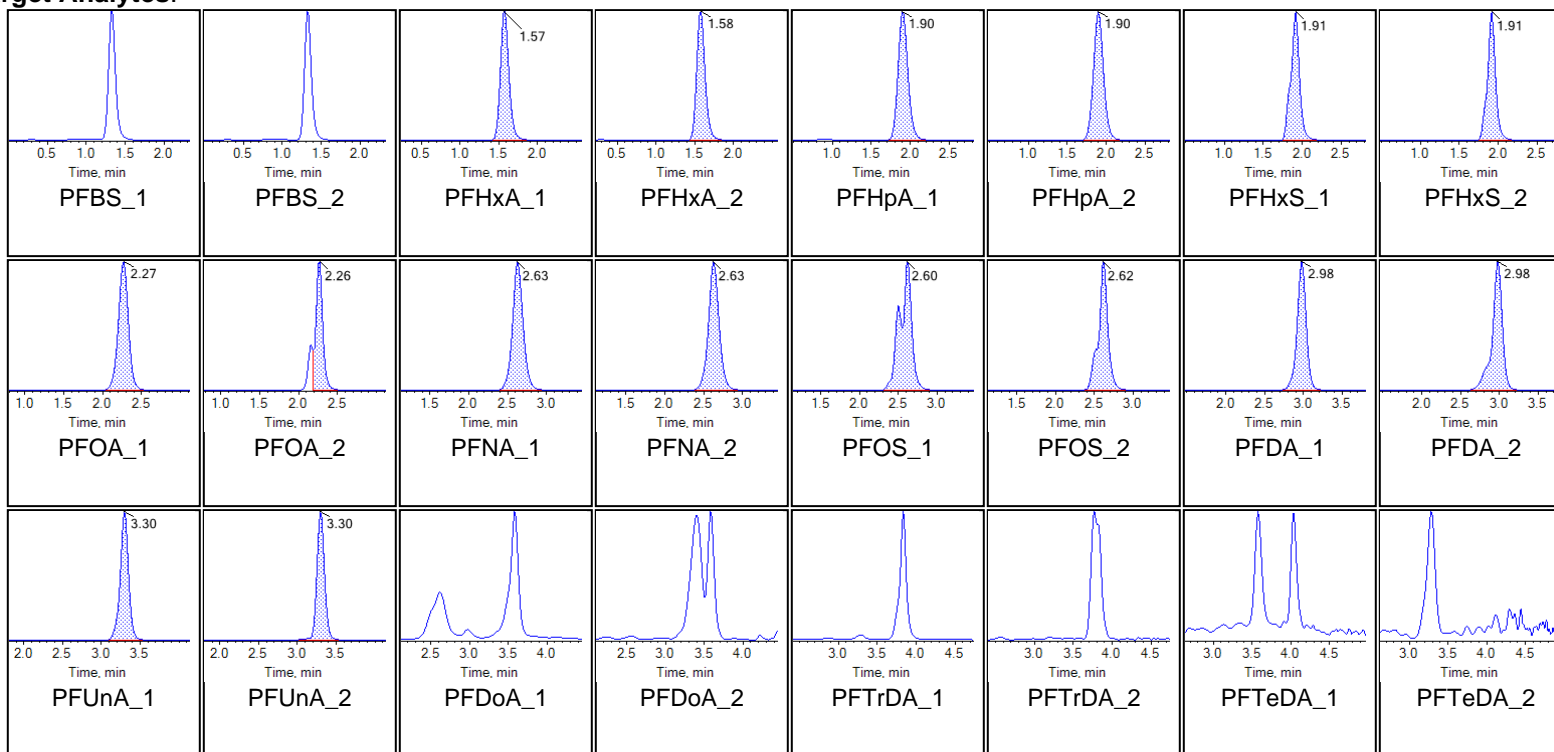
Chromatogram Report

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Printed: 17/11/2020 1:39:32 PM

Sample Name	G1767-FS-D(3)	Injection Vial	34
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:42:31 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

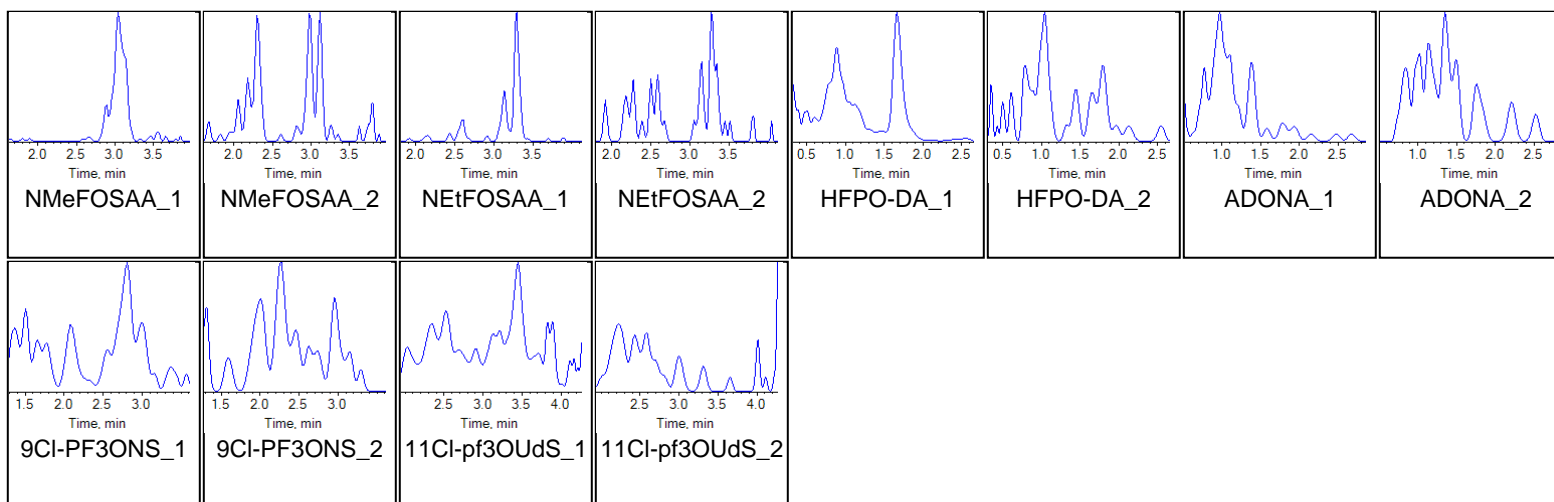
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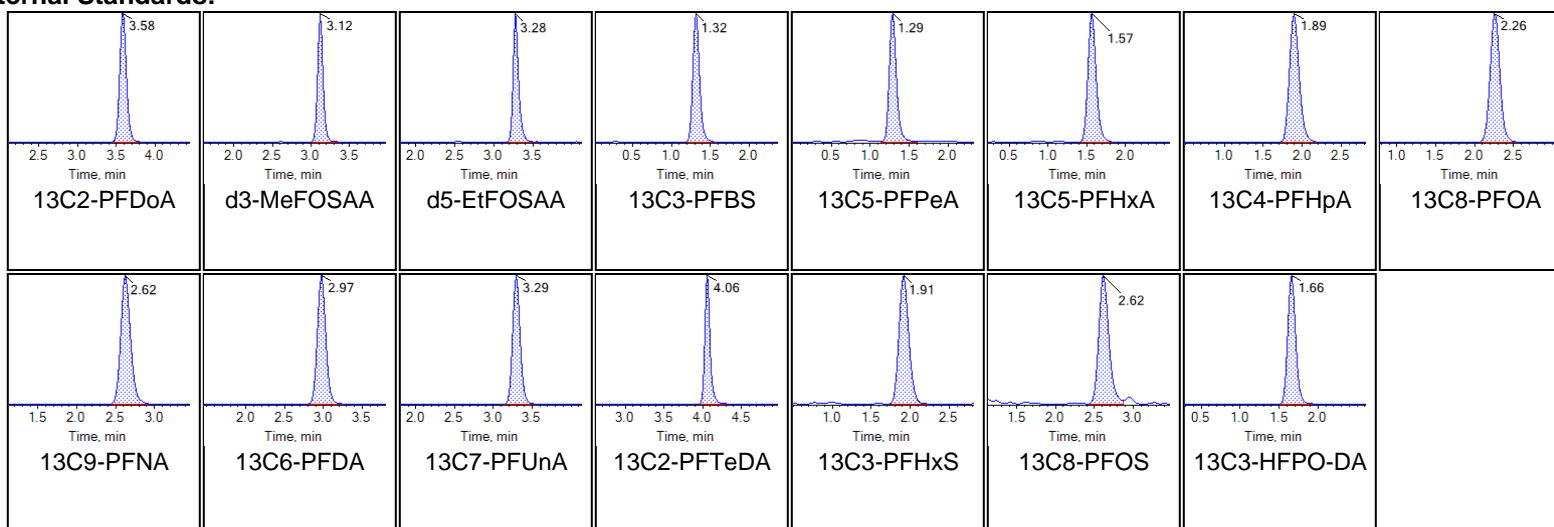




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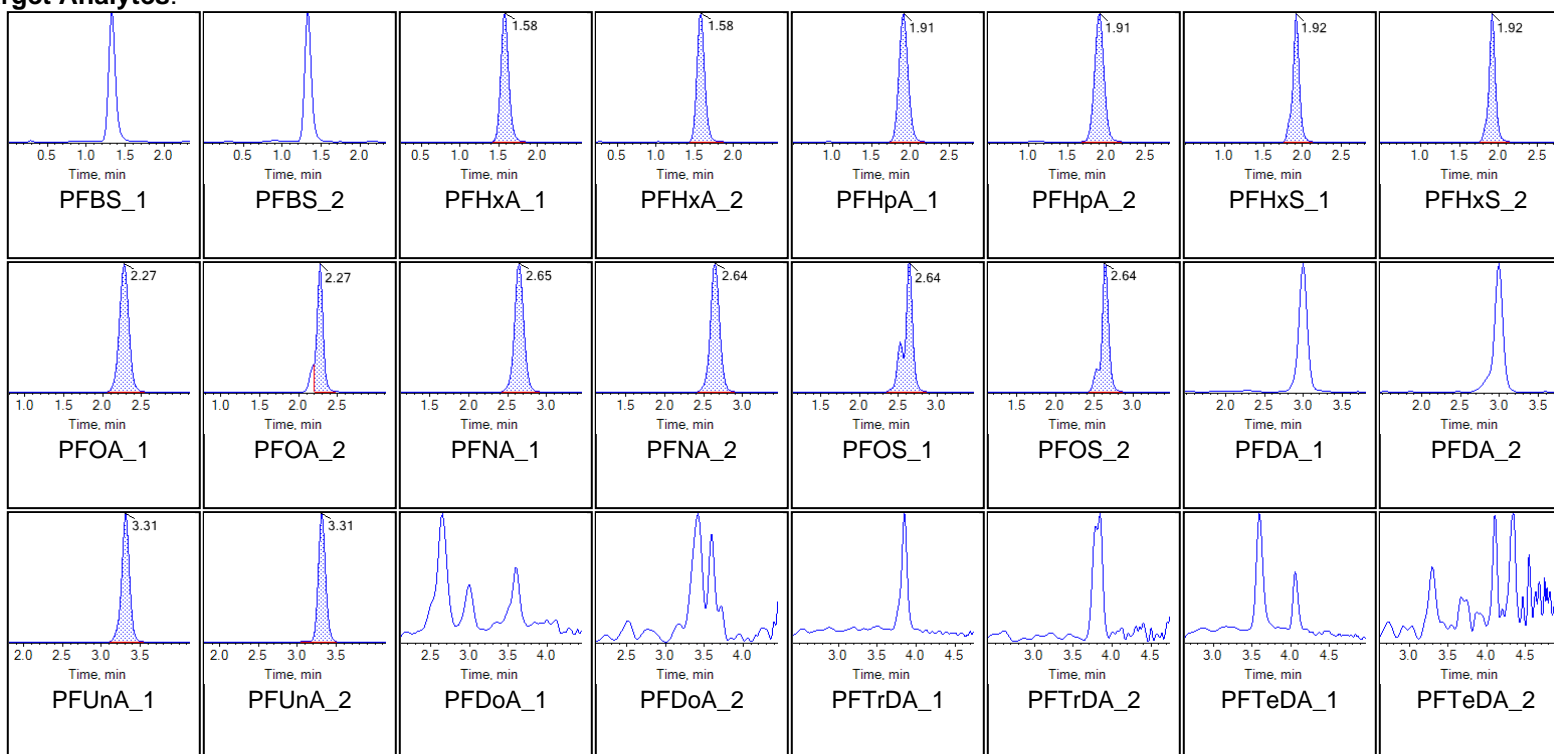
Internal Standards:



Sample Name	G1767-FS-D(7)	Injection Vial	35
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:52:58 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

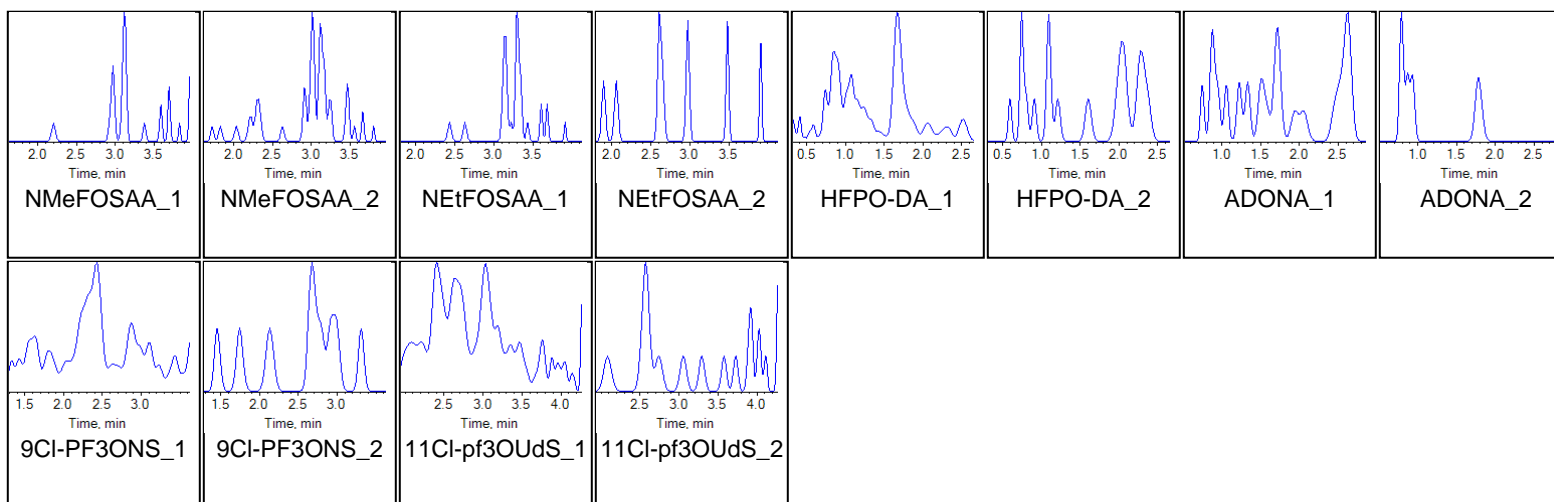
Chromatograms

Target Analytes:

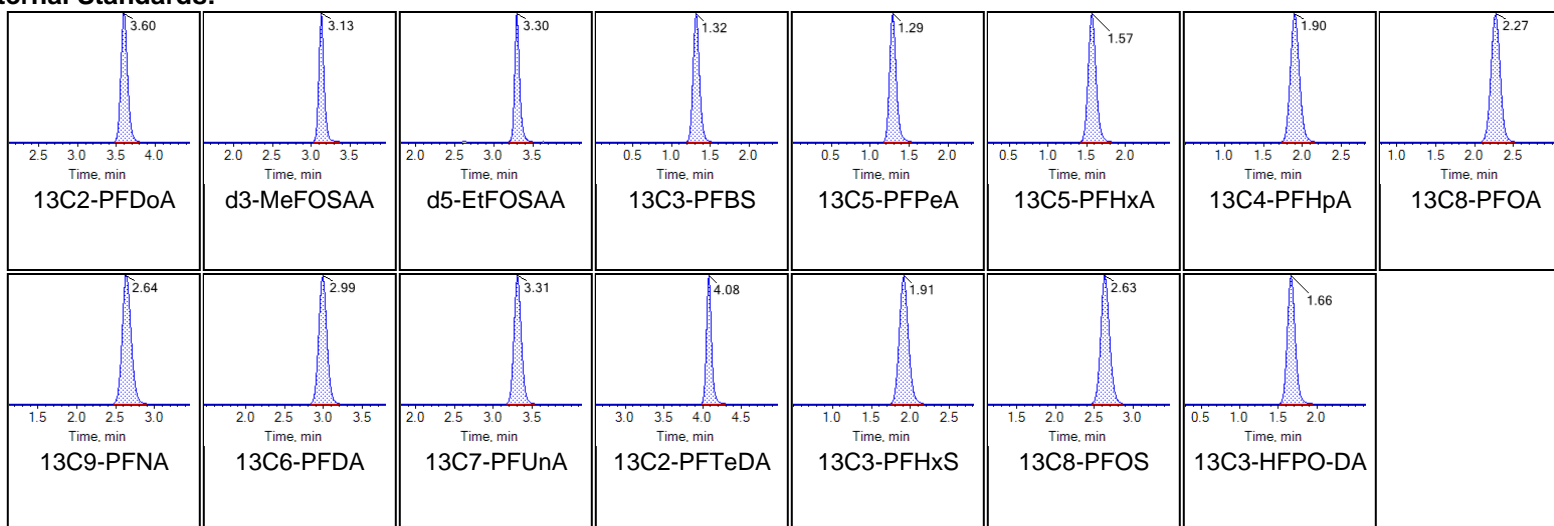




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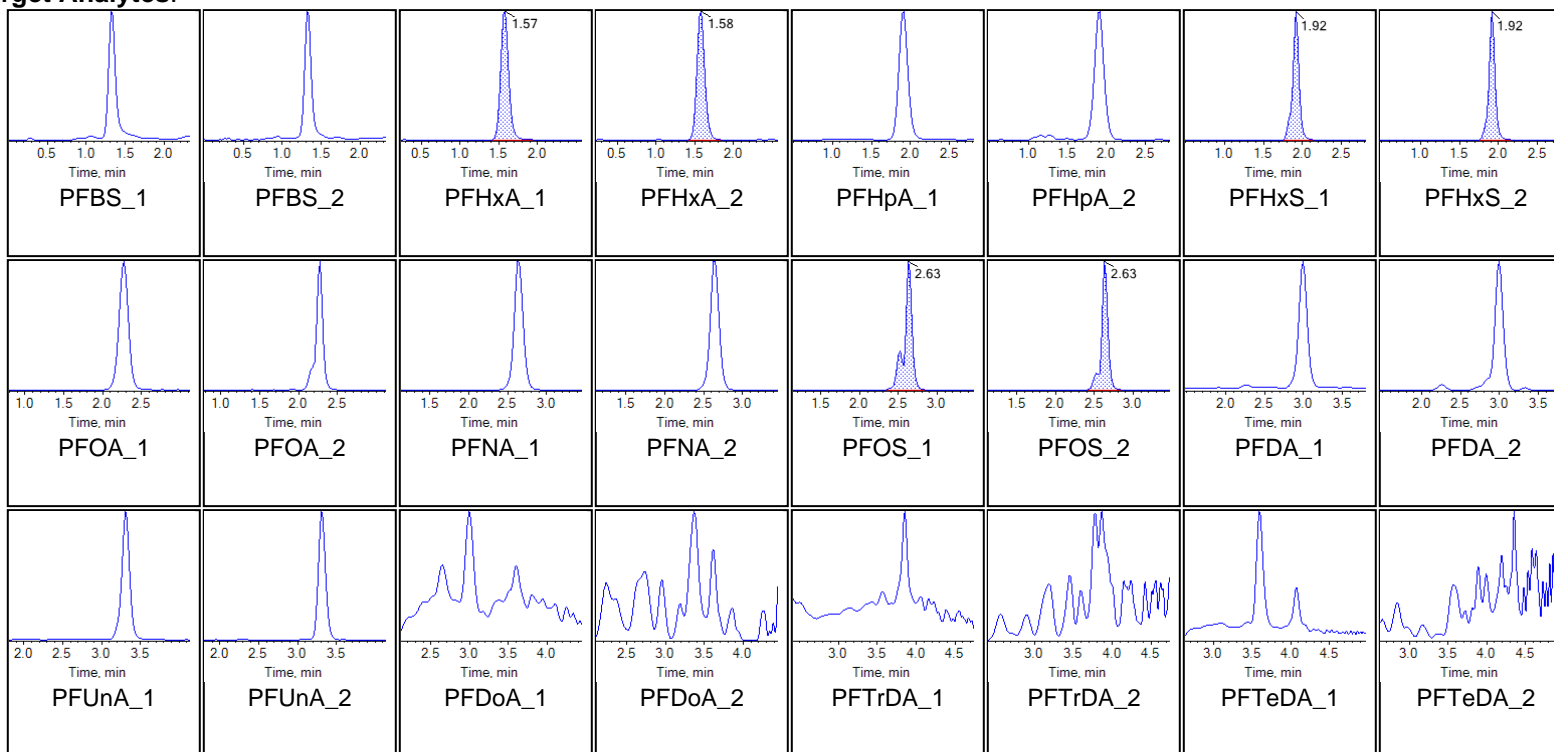
Internal Standards:



Sample Name	G1767-FS-D(9)	Injection Vial	36
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:03:27 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

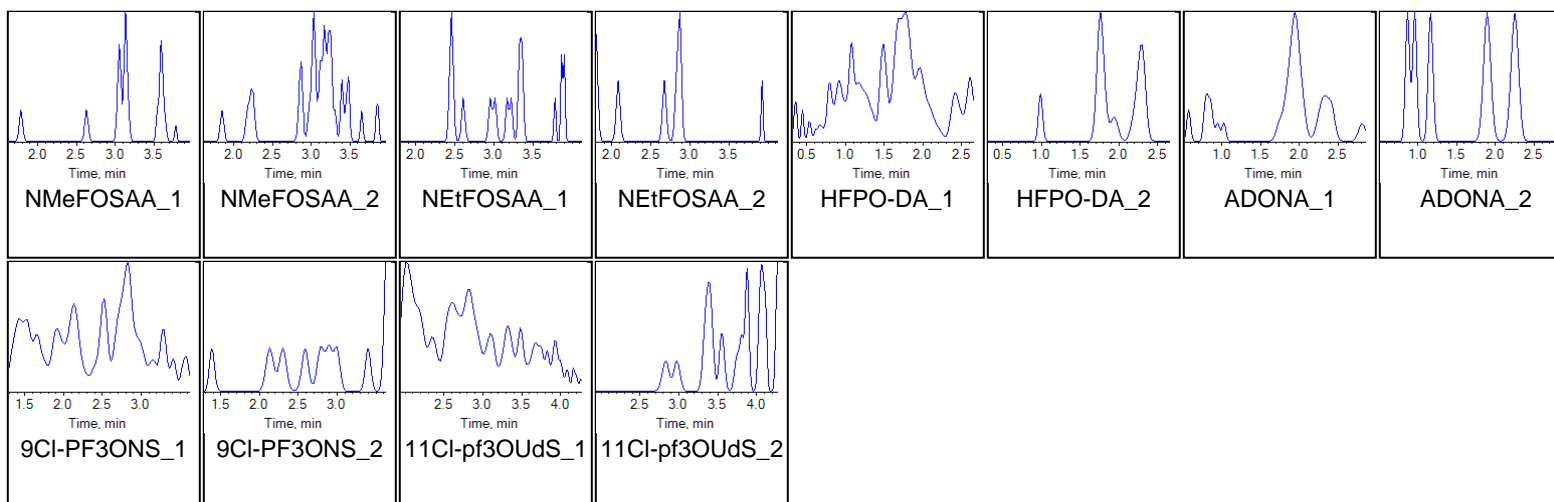
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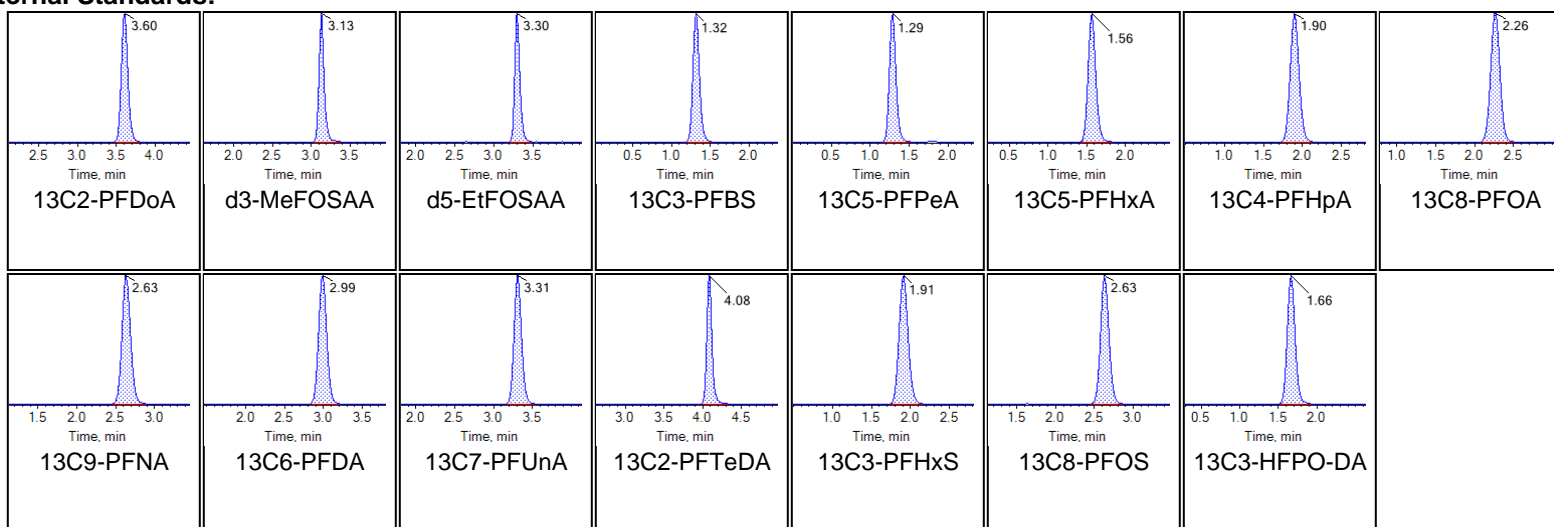




Chromatogram Report

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Internal Standards:





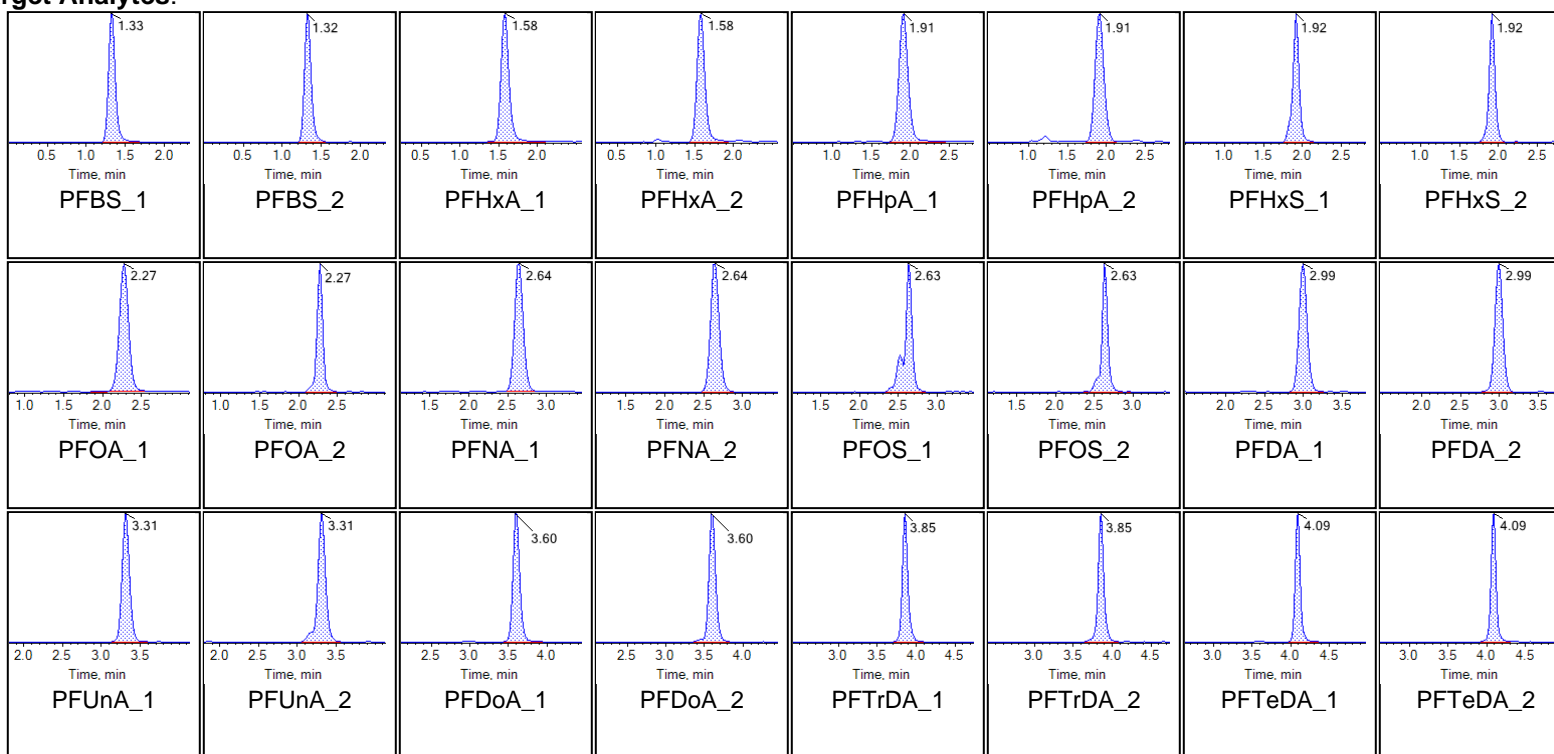
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 PM

Sample Name	LE76 CCV	Injection Vial	38
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:24:22 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

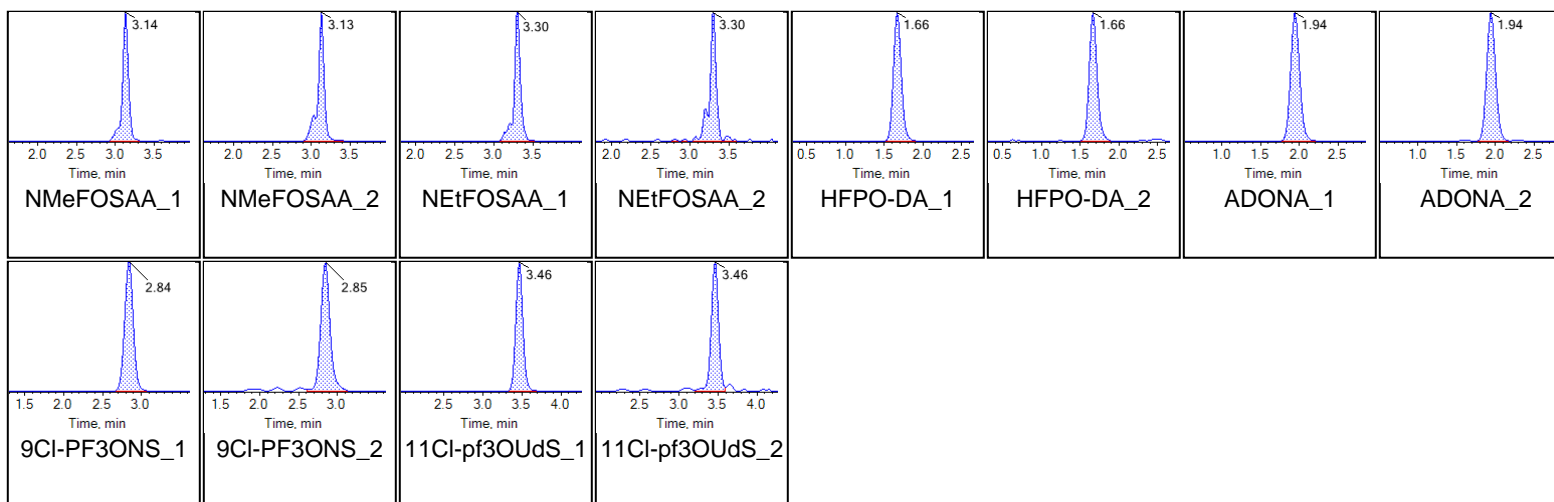
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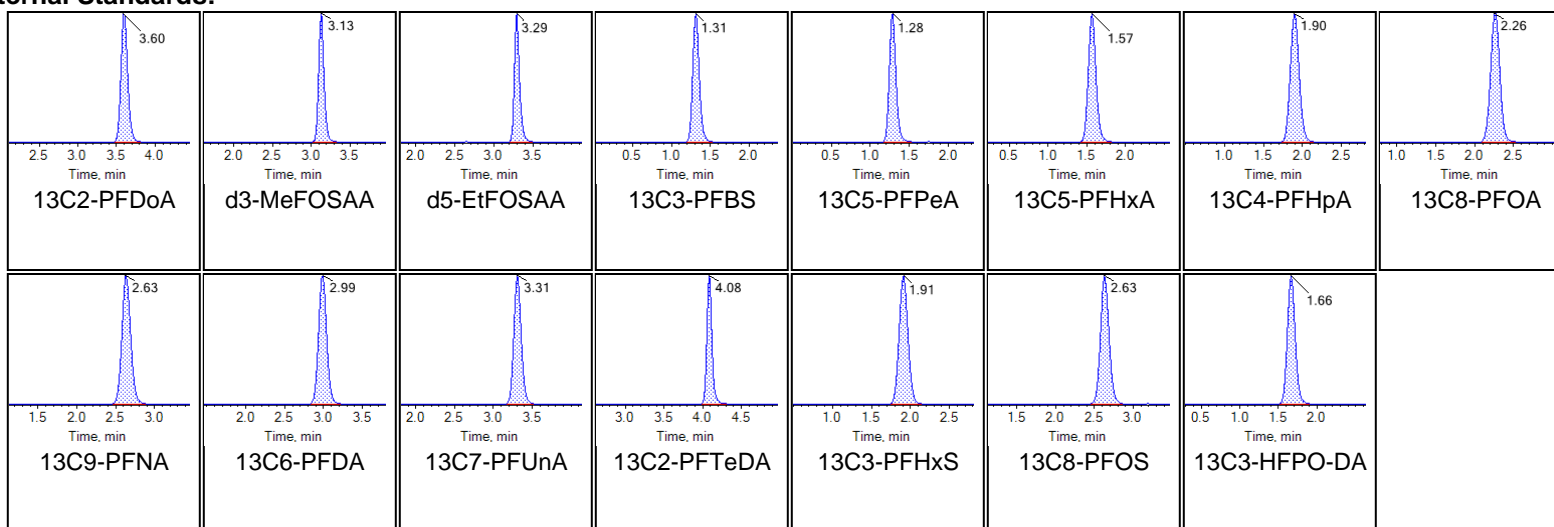




Chromatogram Report

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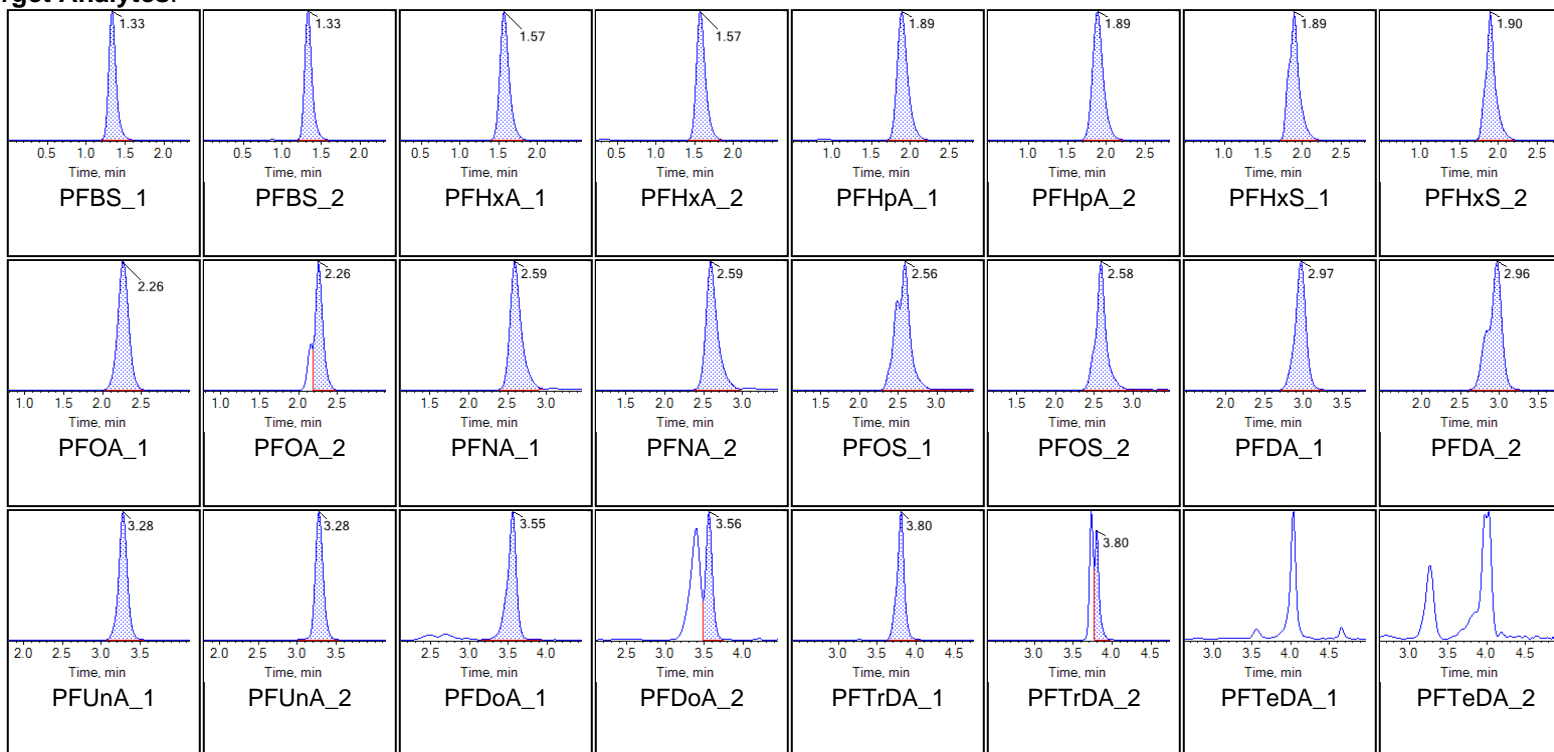
Internal Standards:



Sample Name	G1768-FS(0)	Injection Vial	39
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:34:50 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

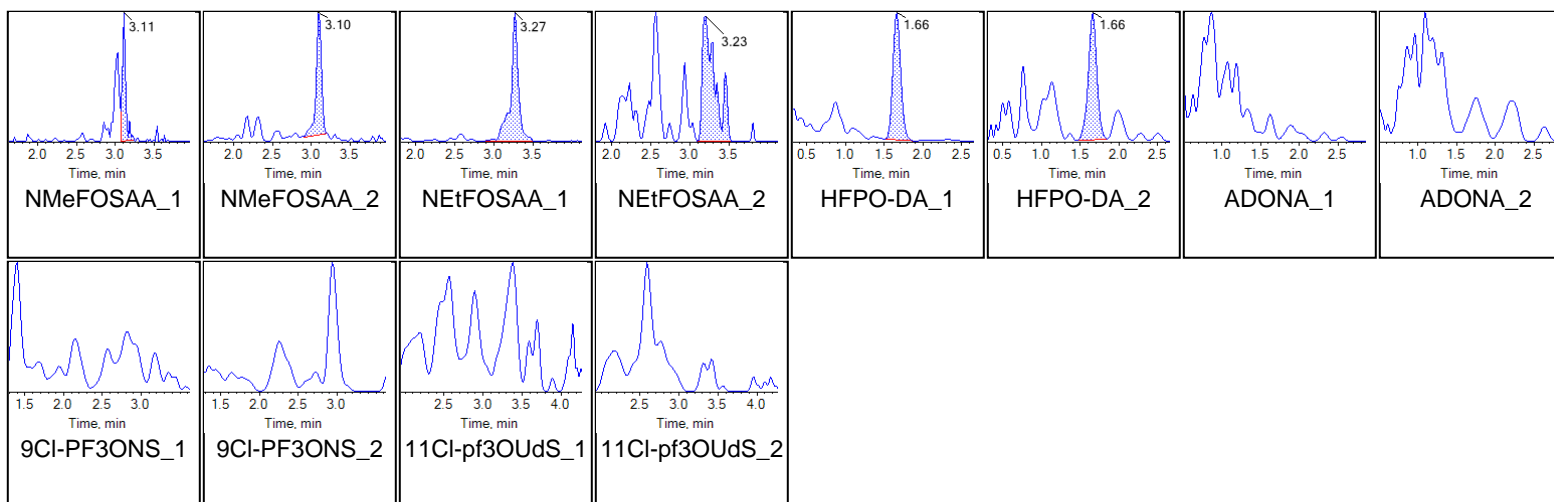
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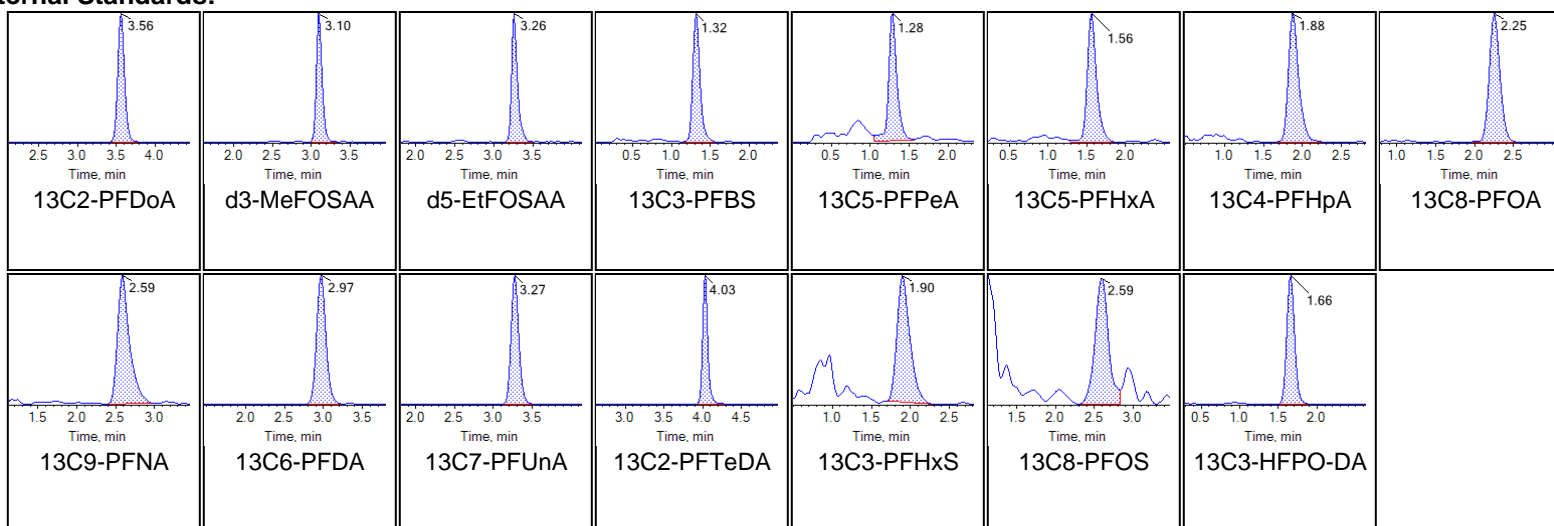




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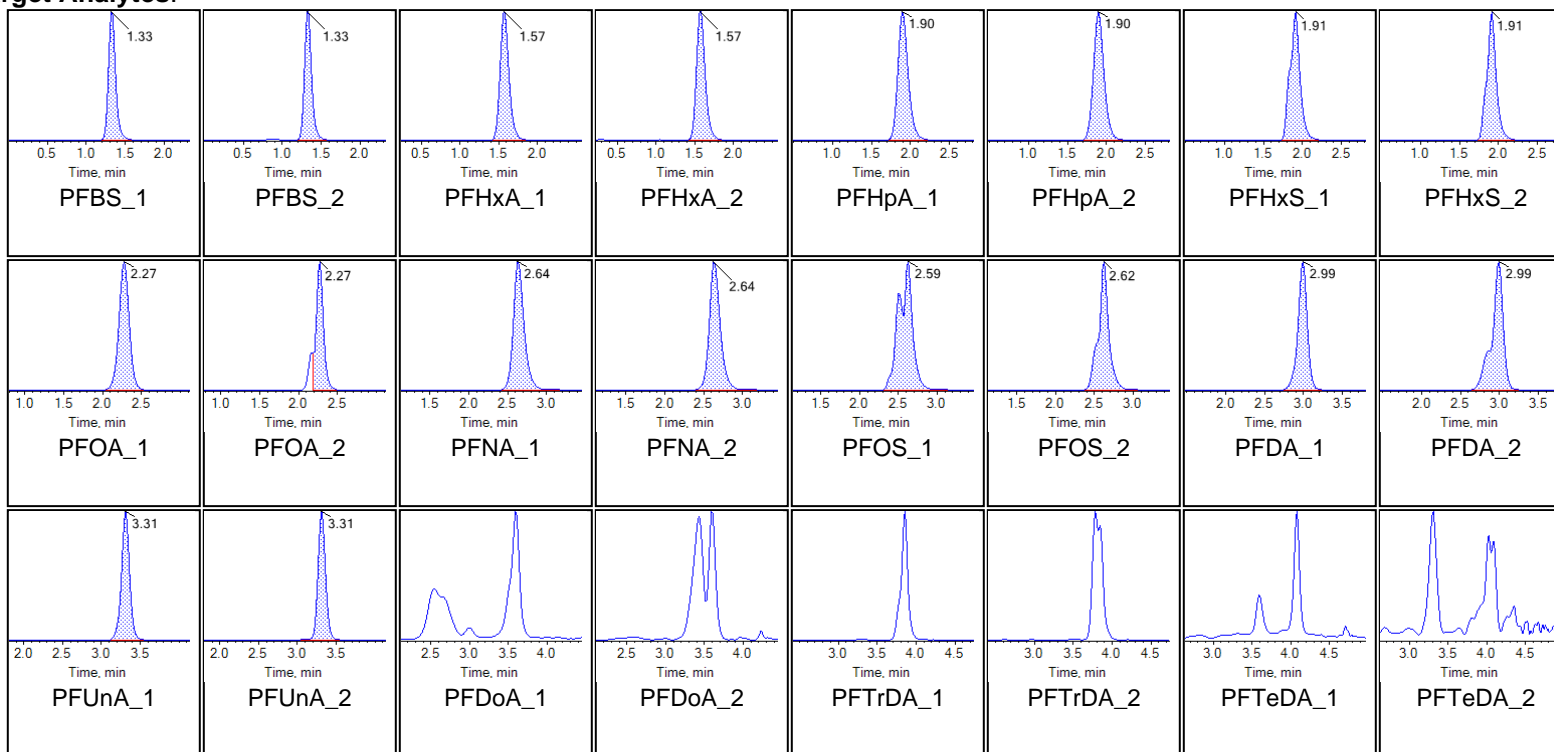
Internal Standards:



Sample Name	G1768-FS-D(3)	Injection Vial	40
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:45:18 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

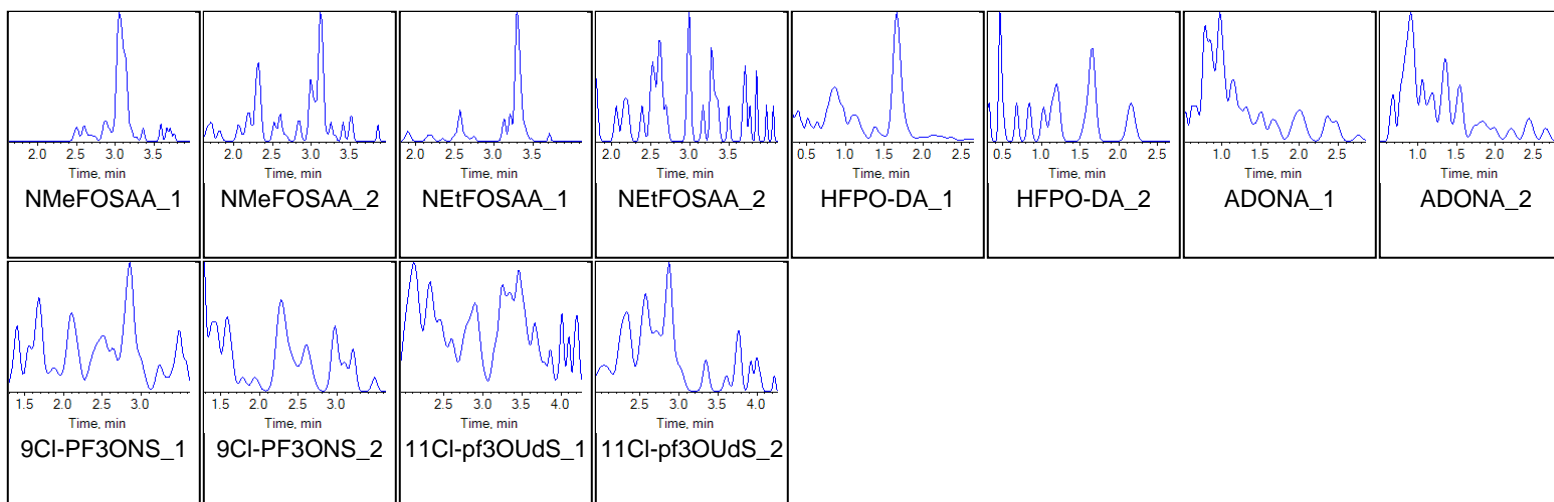
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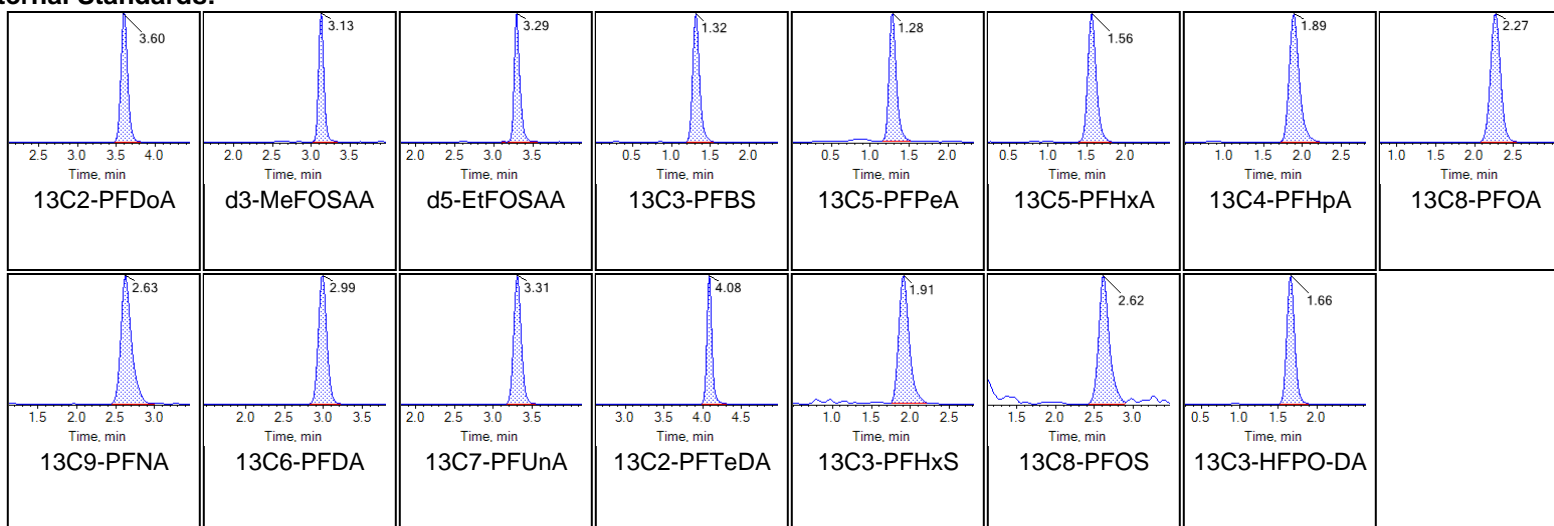




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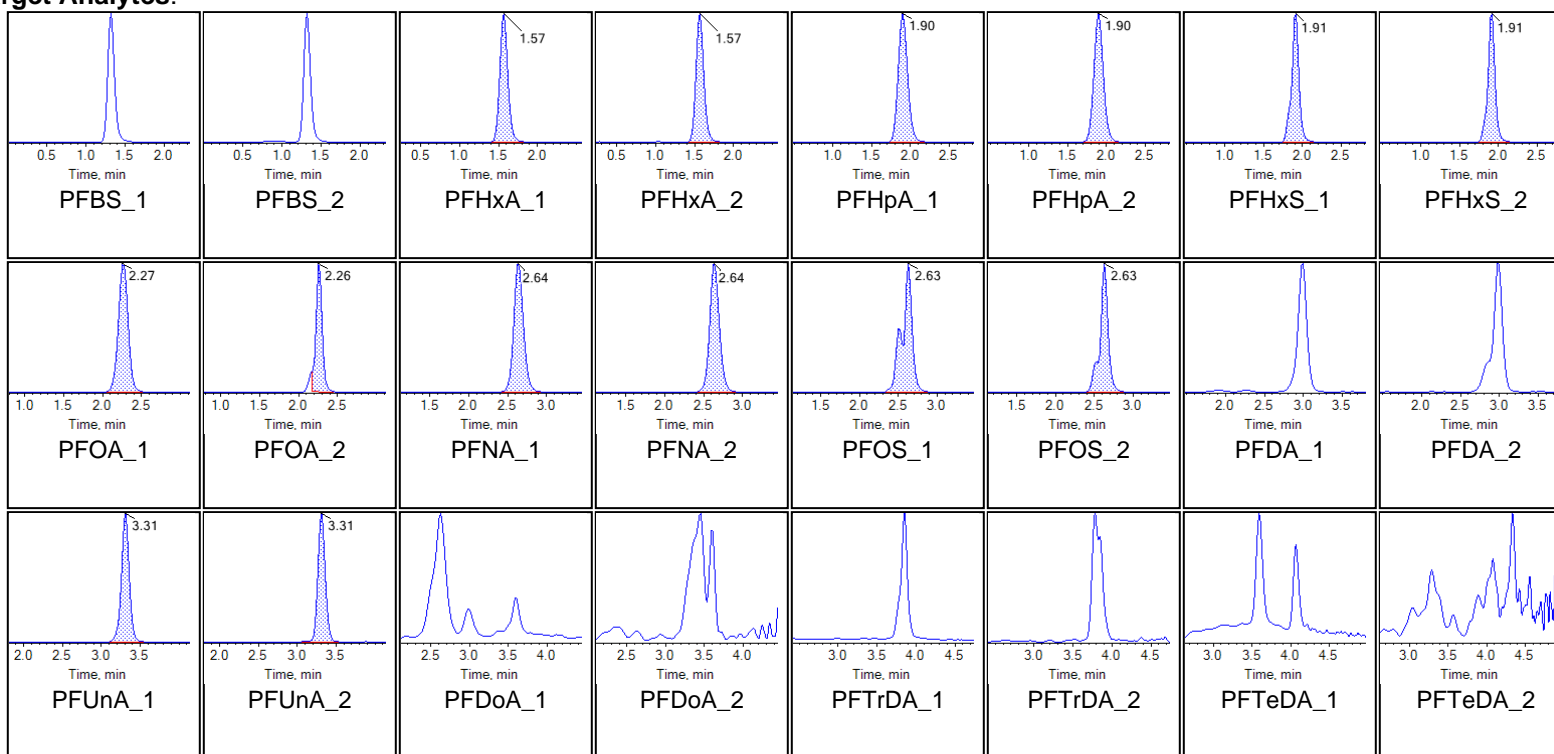
Internal Standards:



Sample Name	G1768-FS-D(5)	Injection Vial	41
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:55:45 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

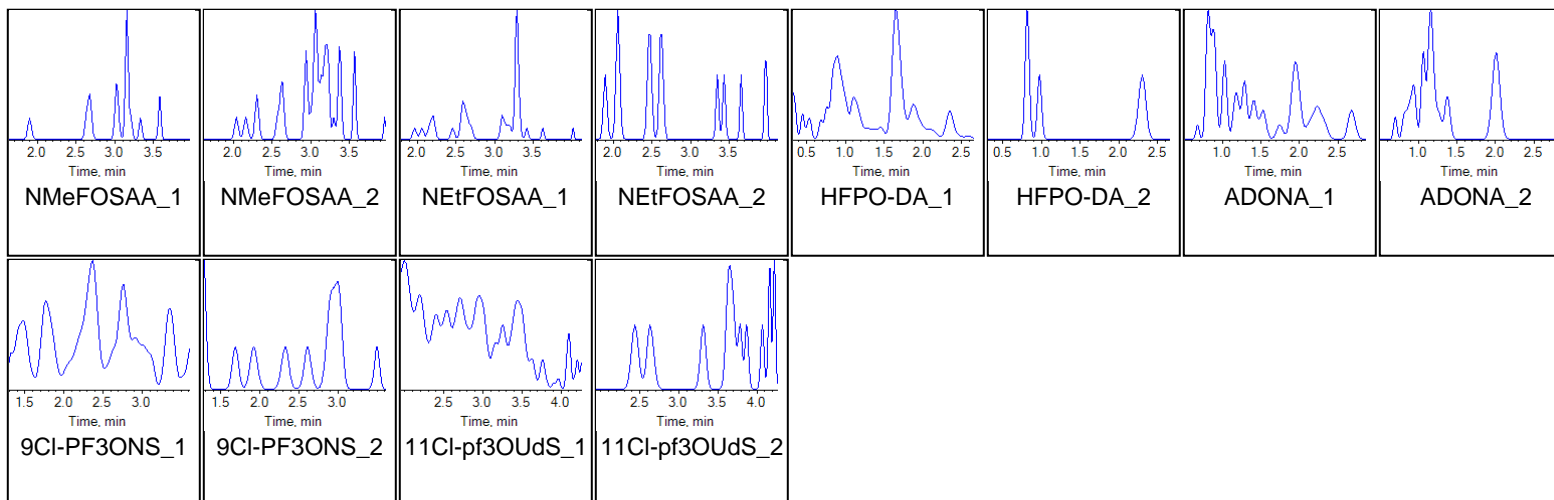
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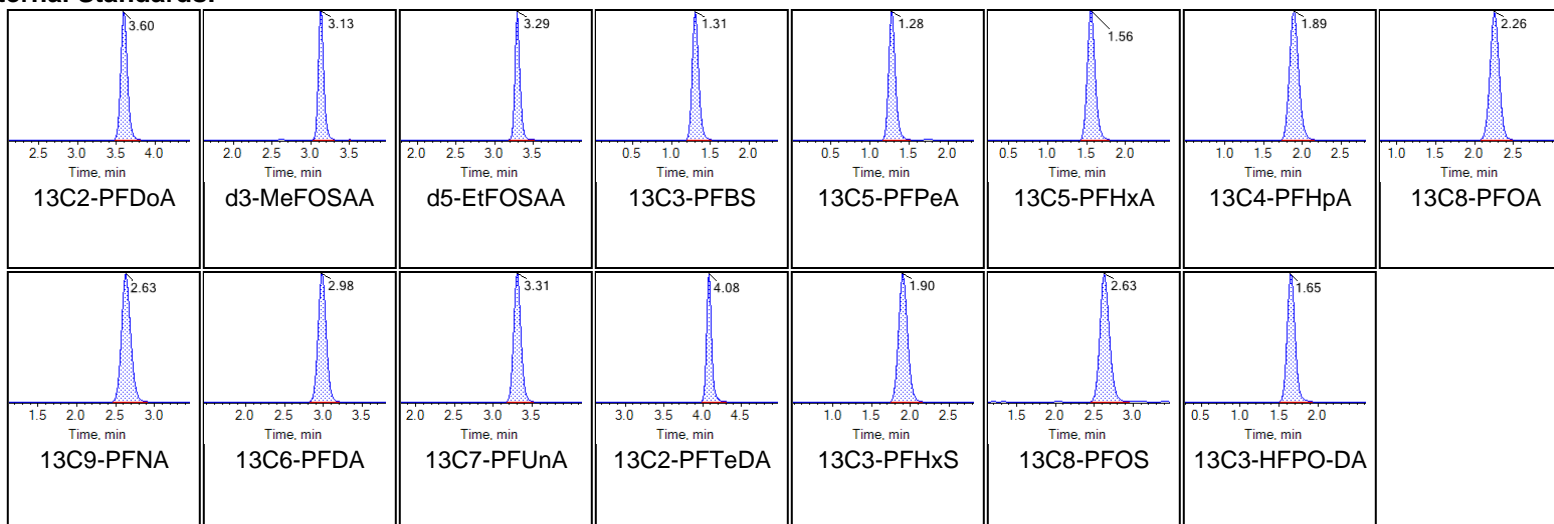




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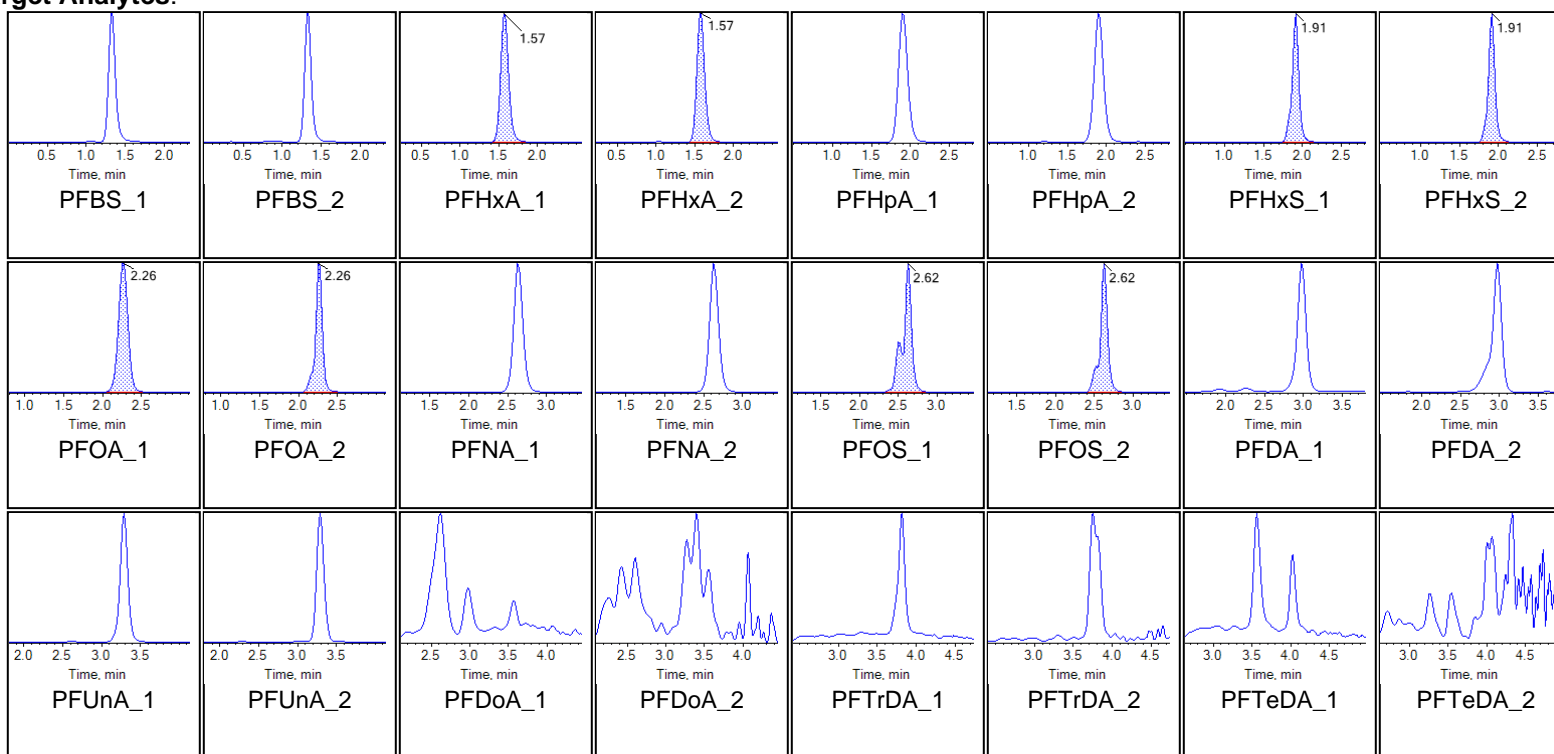
Internal Standards:



Sample Name	G1768-FS-D(7)	Injection Vial	42
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:06:13 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

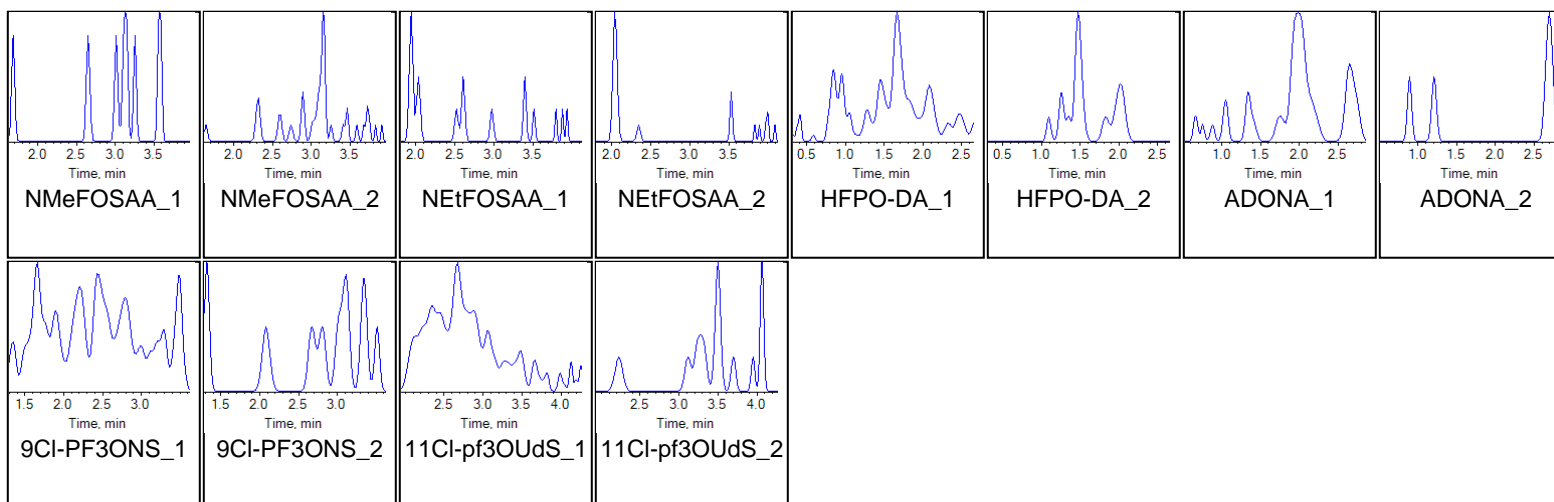
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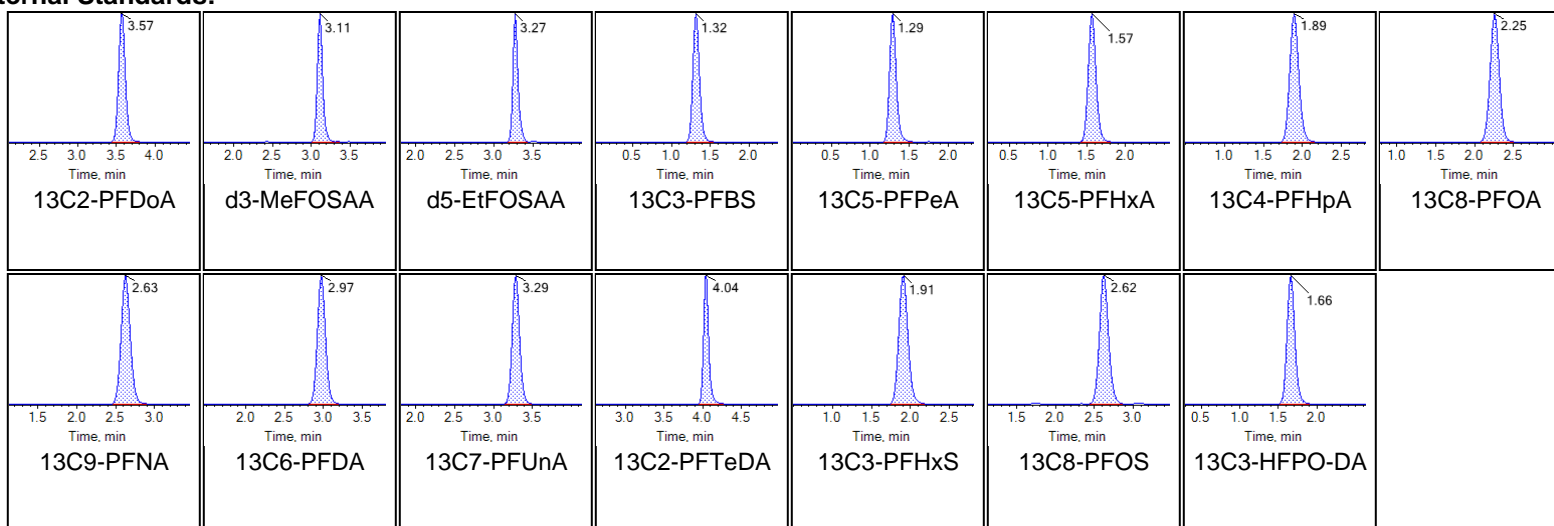




Chromatogram Report

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Internal Standards:





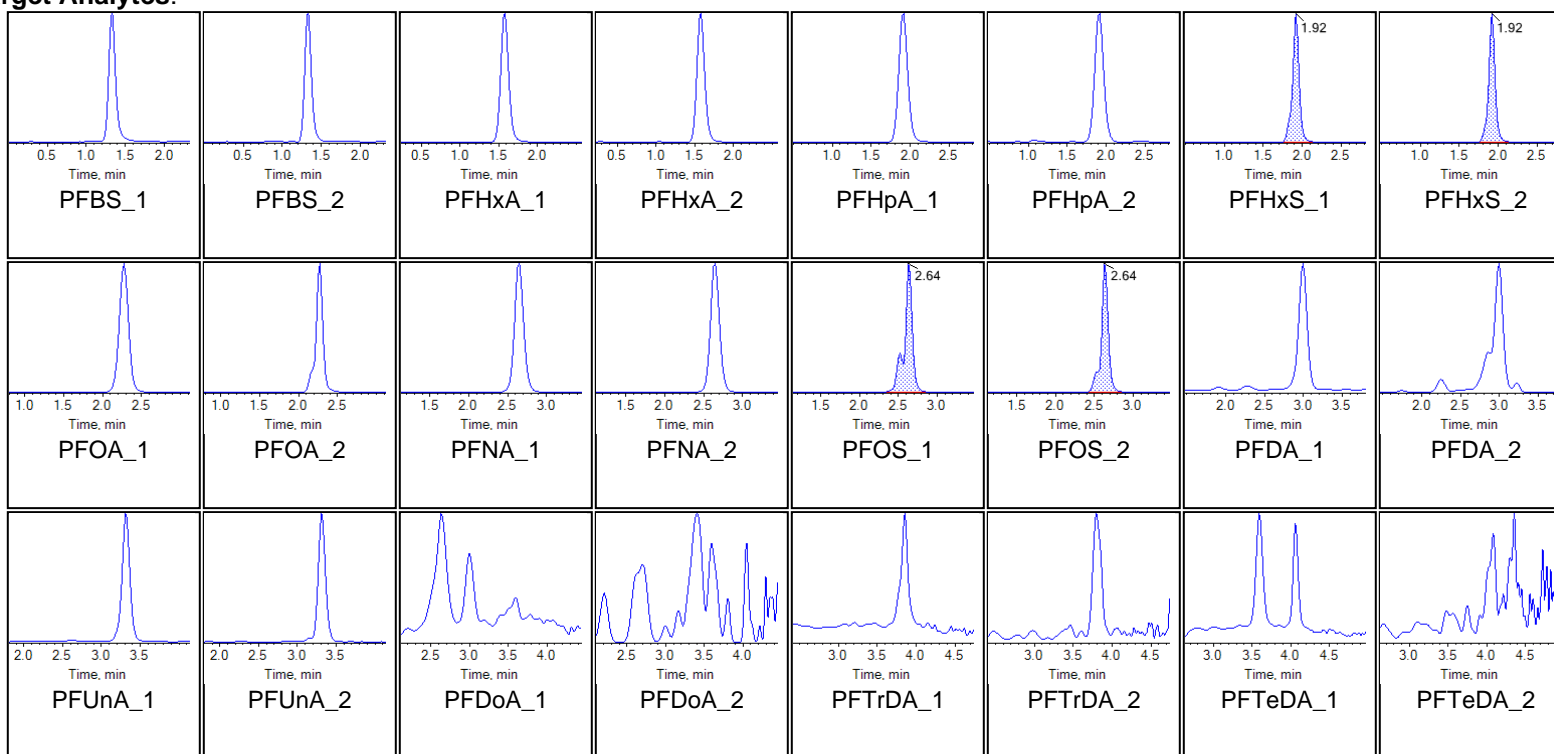
Chromatogram Report

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Sample Name	G1768-FS-D(9)	Injection Vial	43
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:16:41 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

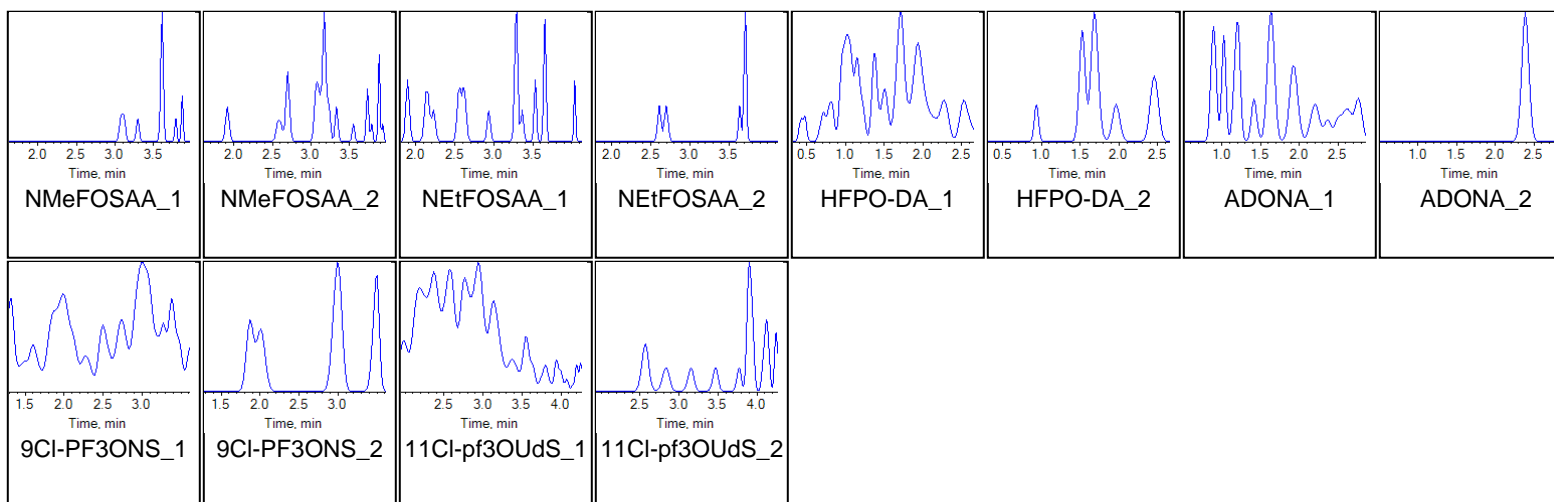
Chromatograms

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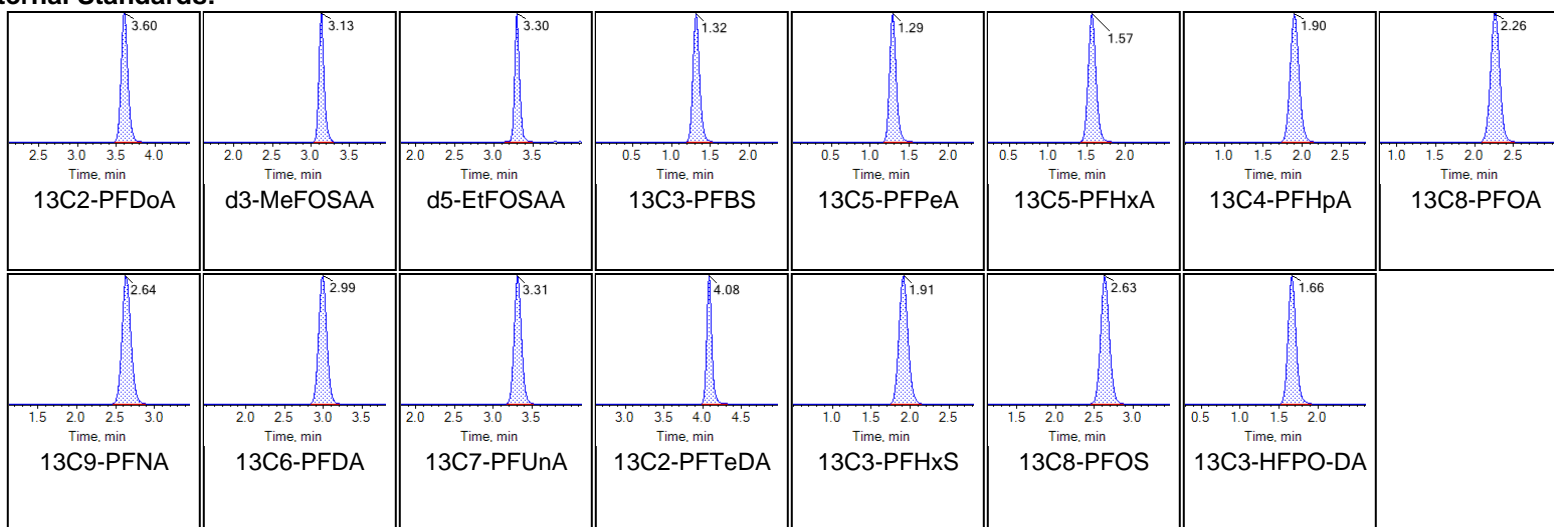




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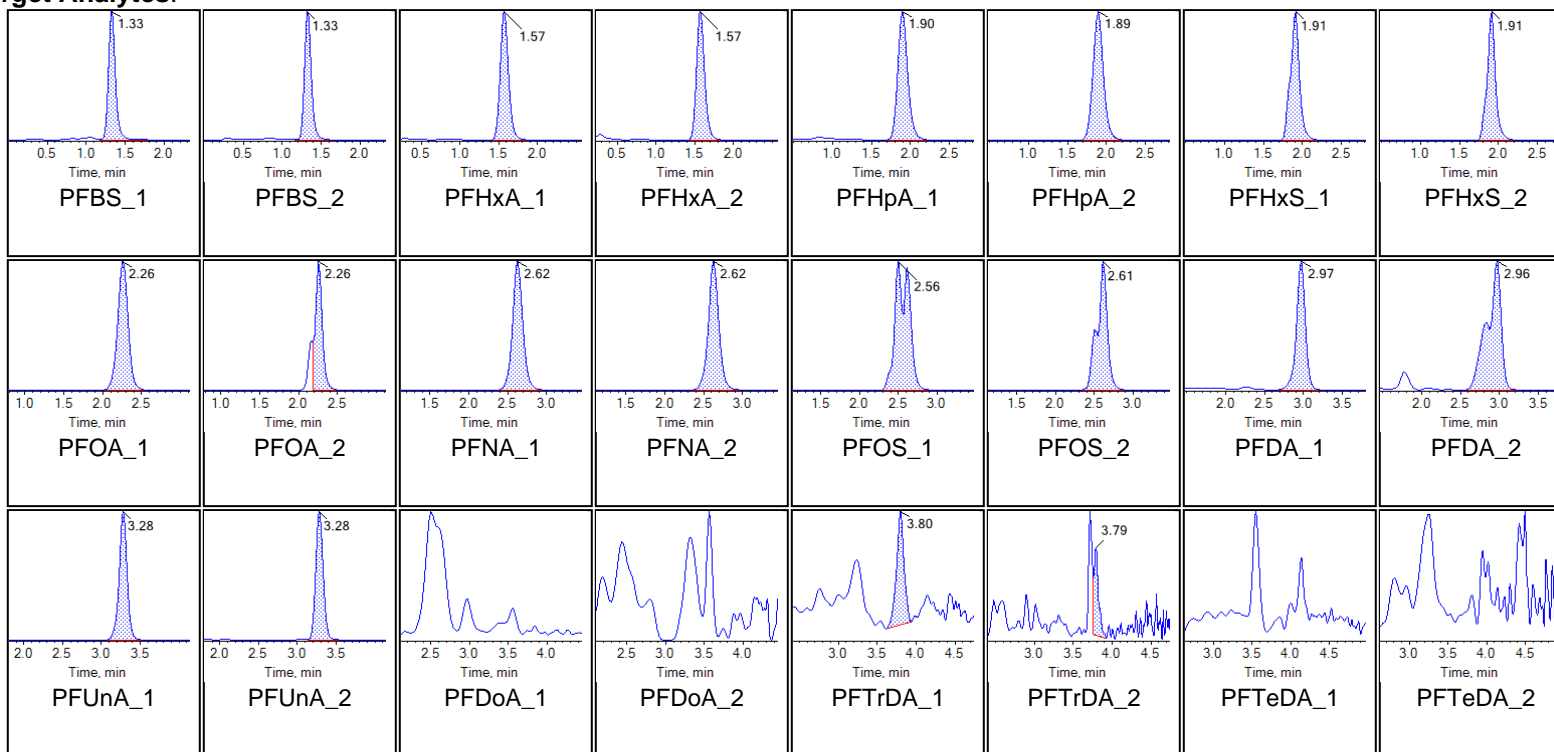
Internal Standards:



Sample Name	G1773-FS(0)	Injection Vial	45
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:37:38 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

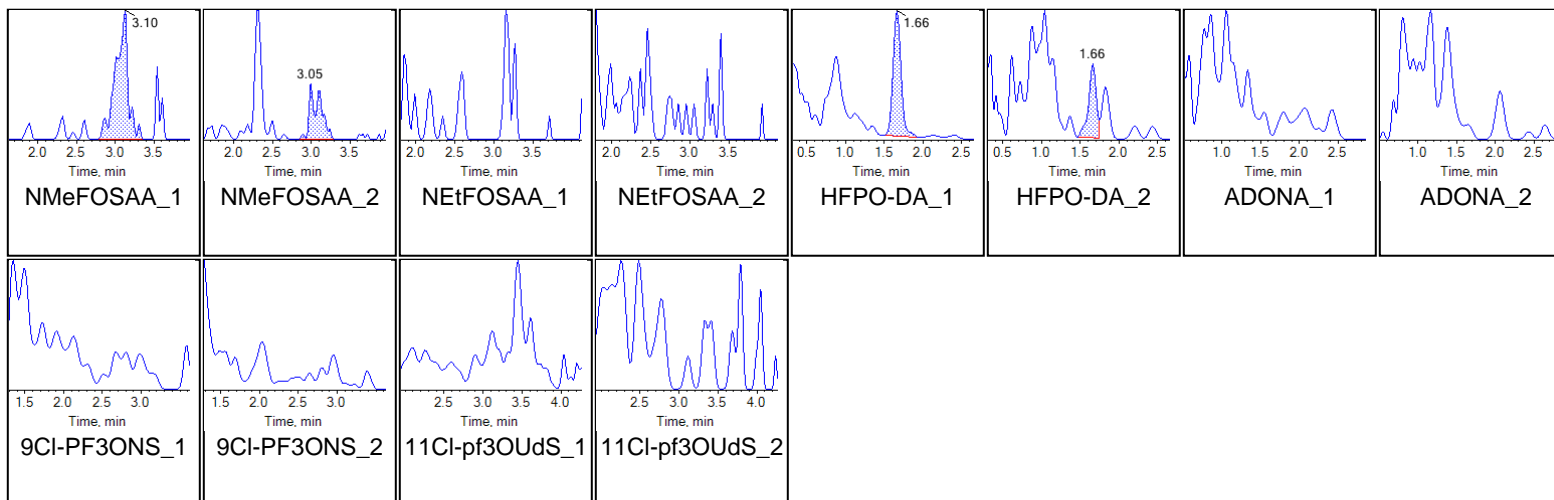
Chromatograms

Target Analytes:

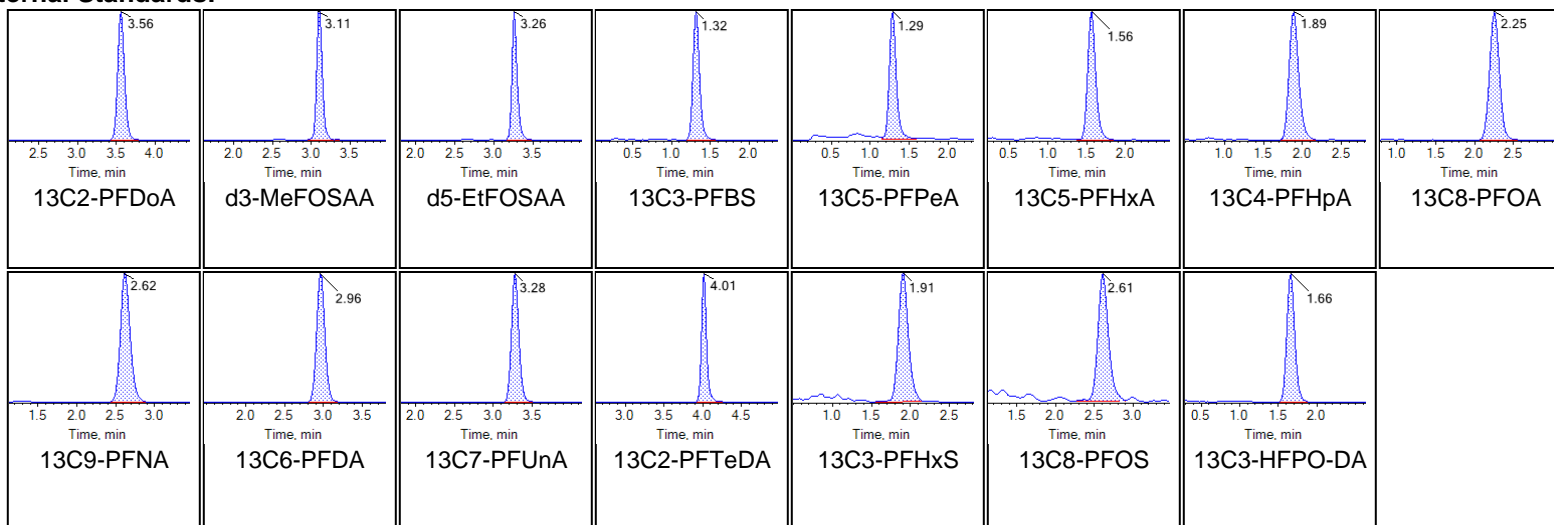




Chromatogram Report

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Internal Standards:





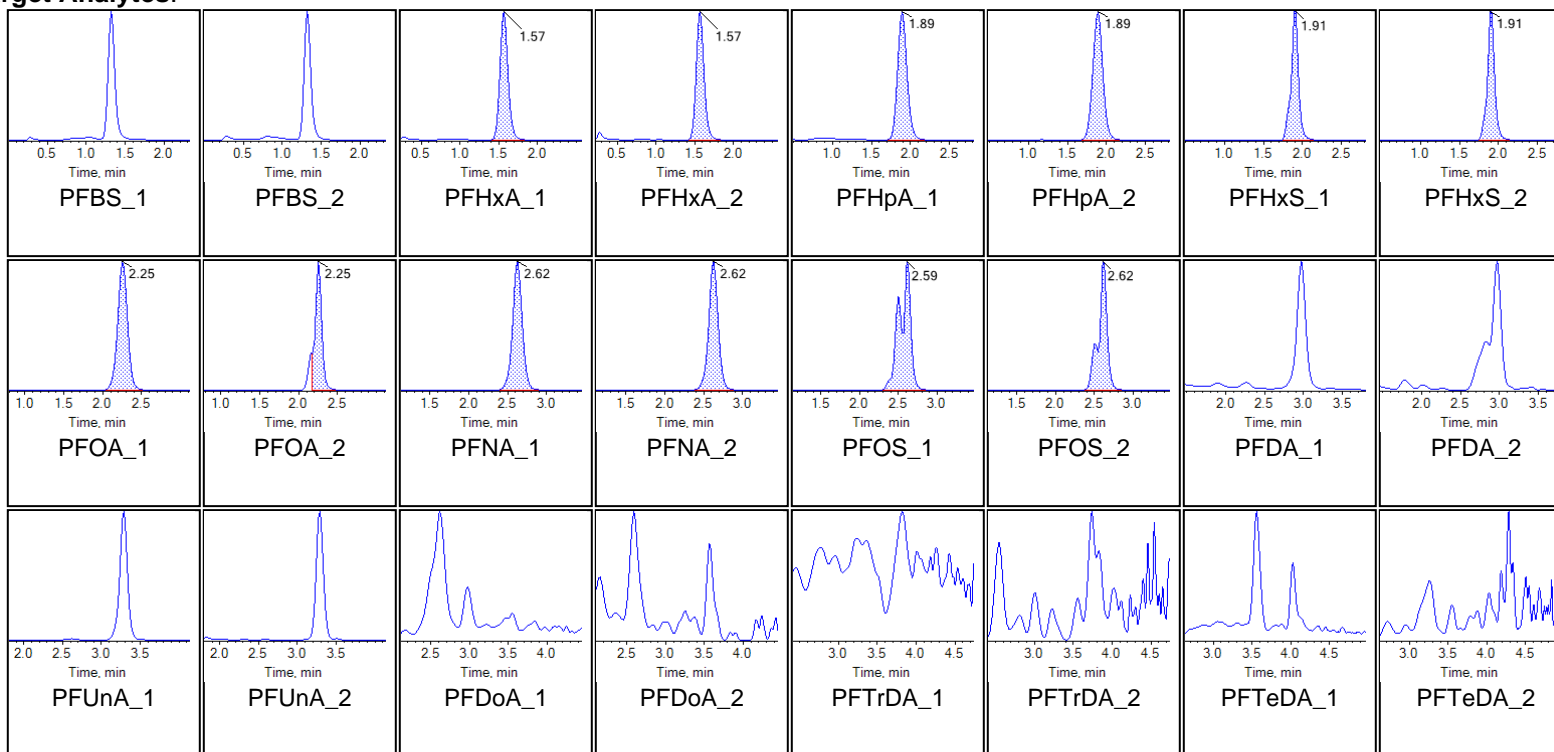
Chromatogram Report

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Sample Name	G1773-FS-D(3)	Injection Vial	46
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:48:07 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

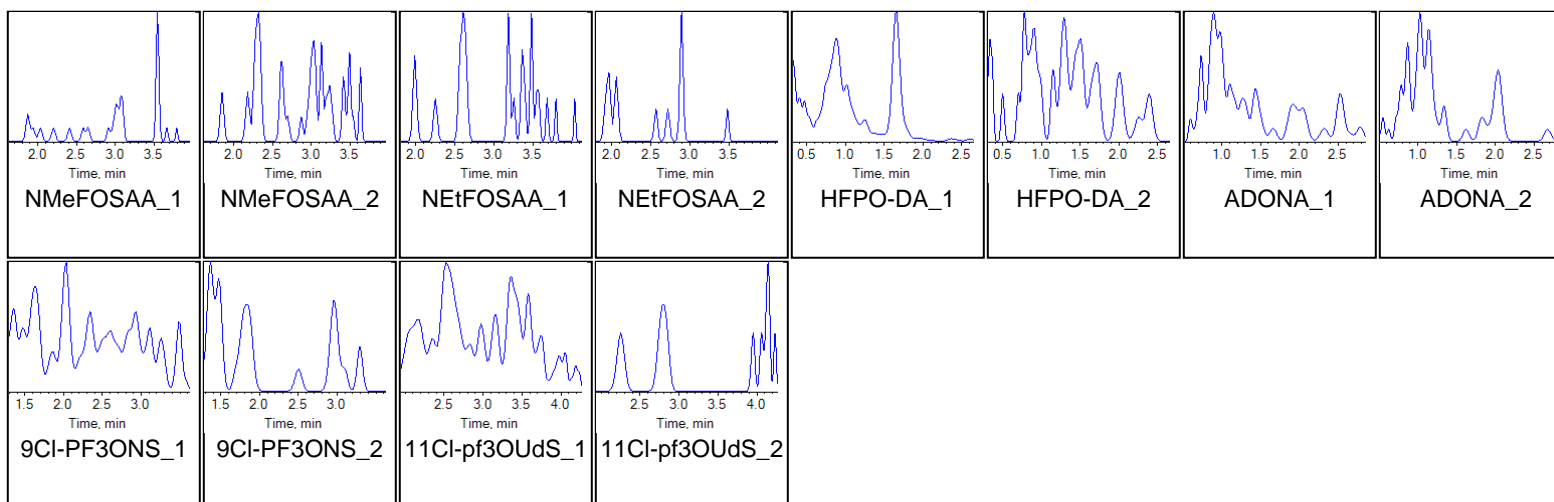
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Target Analytes:

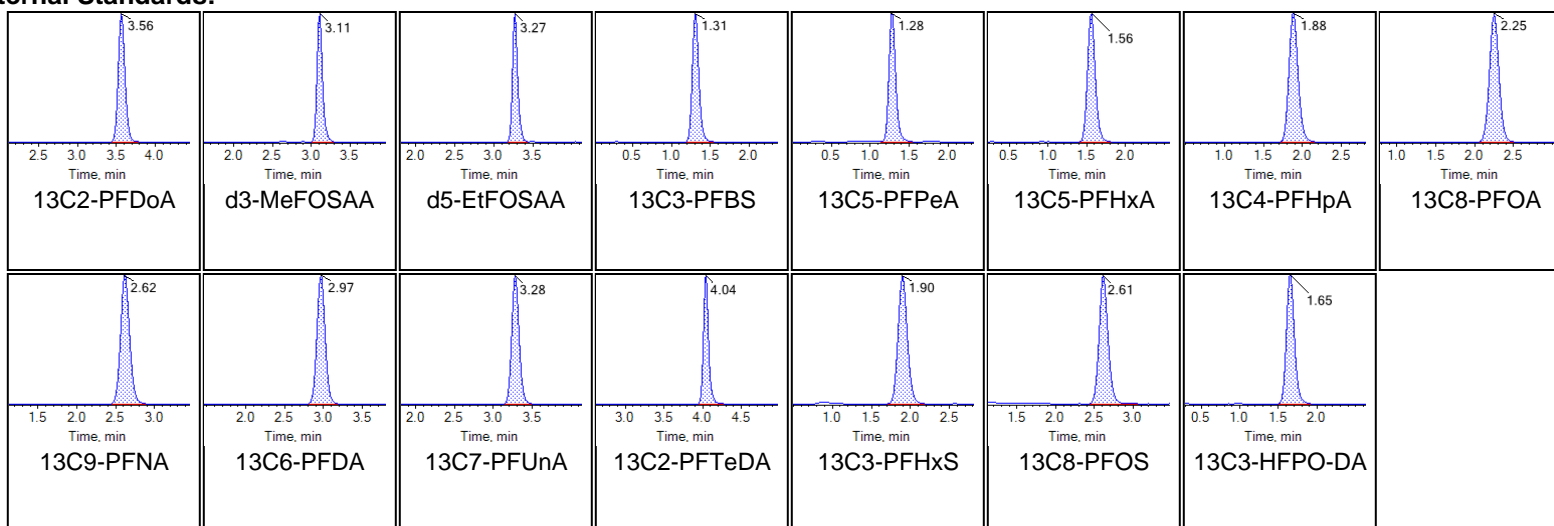




Chromatogram Report

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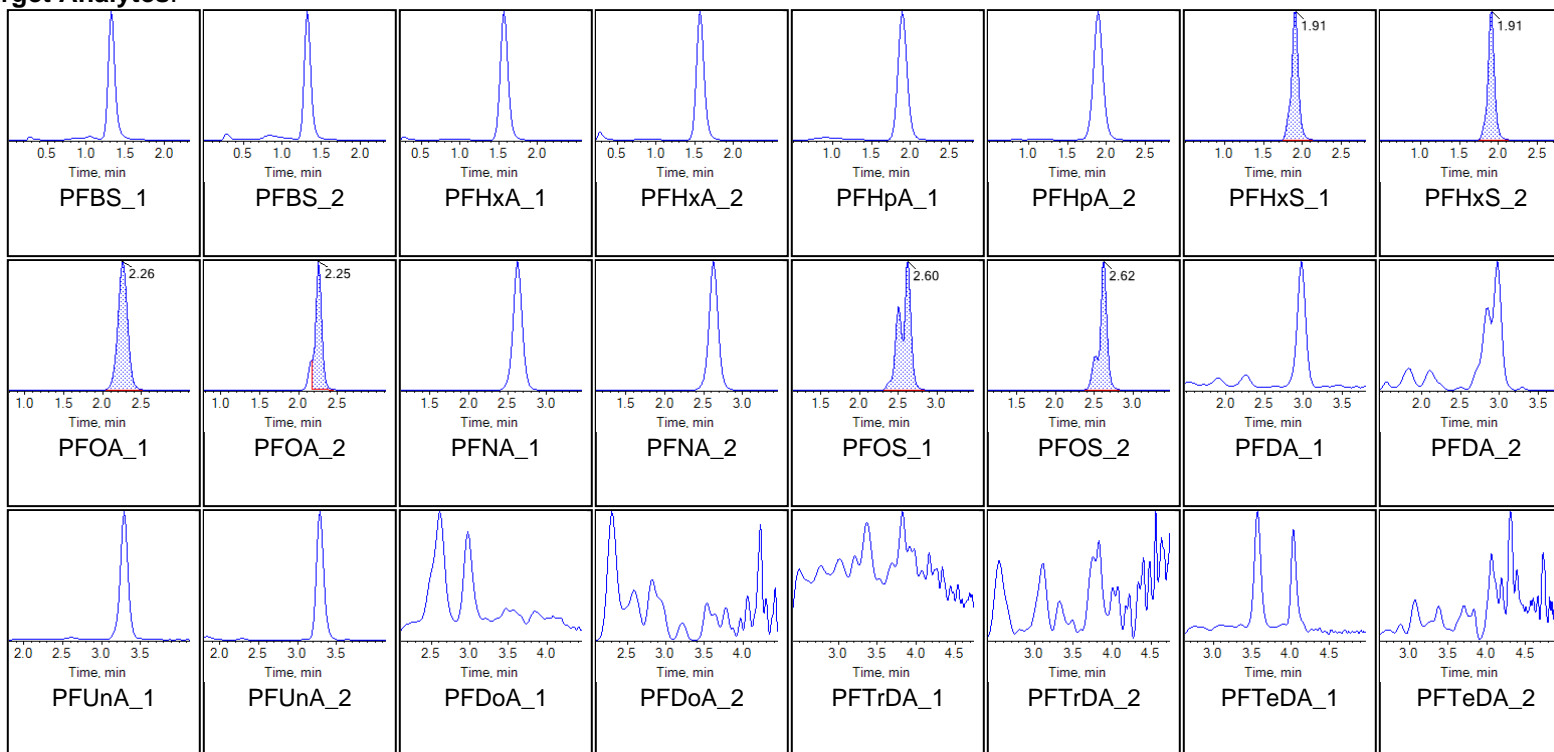
Internal Standards:



Sample Name	G1773-FS-D(5)	Injection Vial	47
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:58:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

Chromatograms

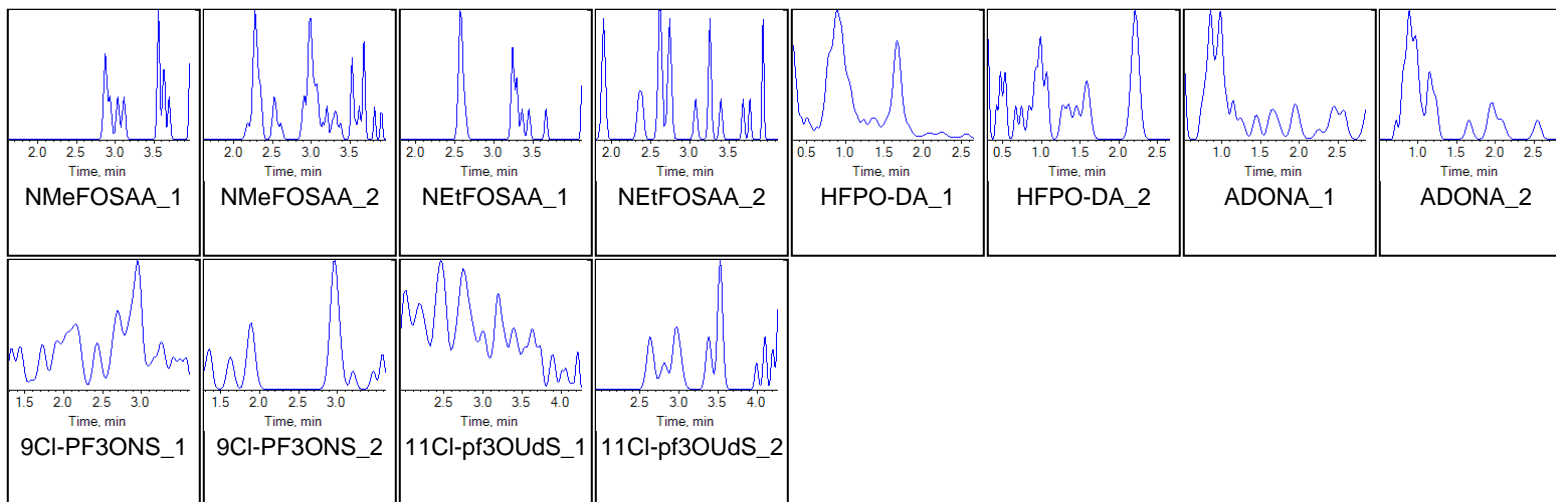
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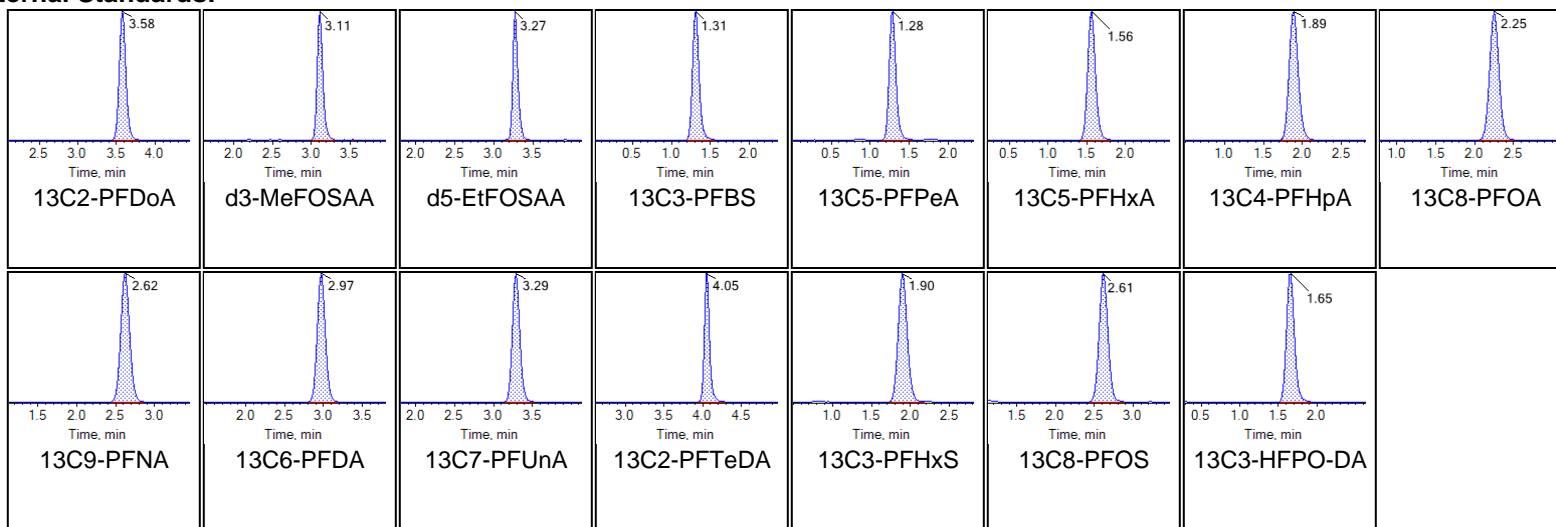


Chromatogram Report

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Internal Standards:





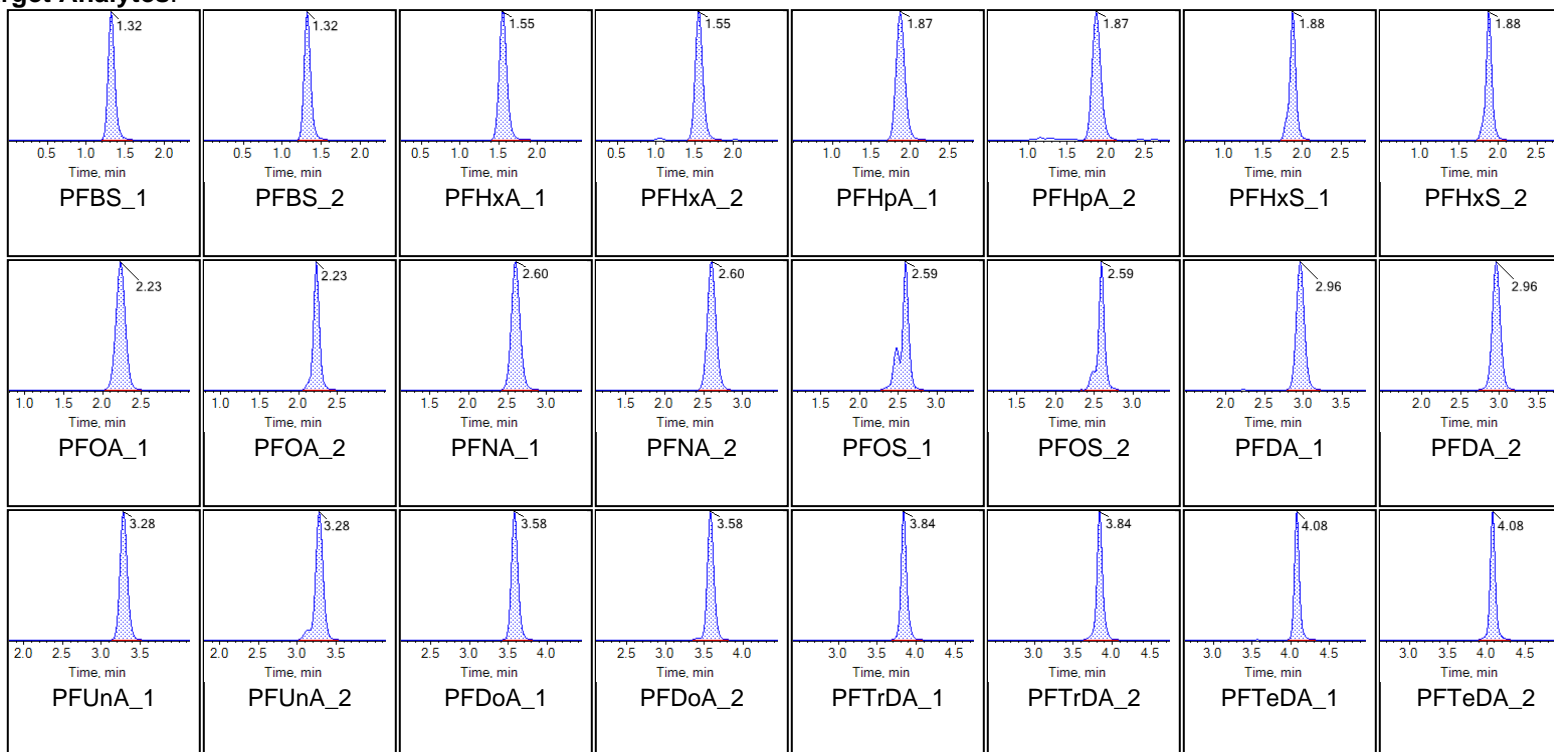
Chromatogram Report

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Sample Name	LE77 CCV	Injection Vial	49
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:19:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

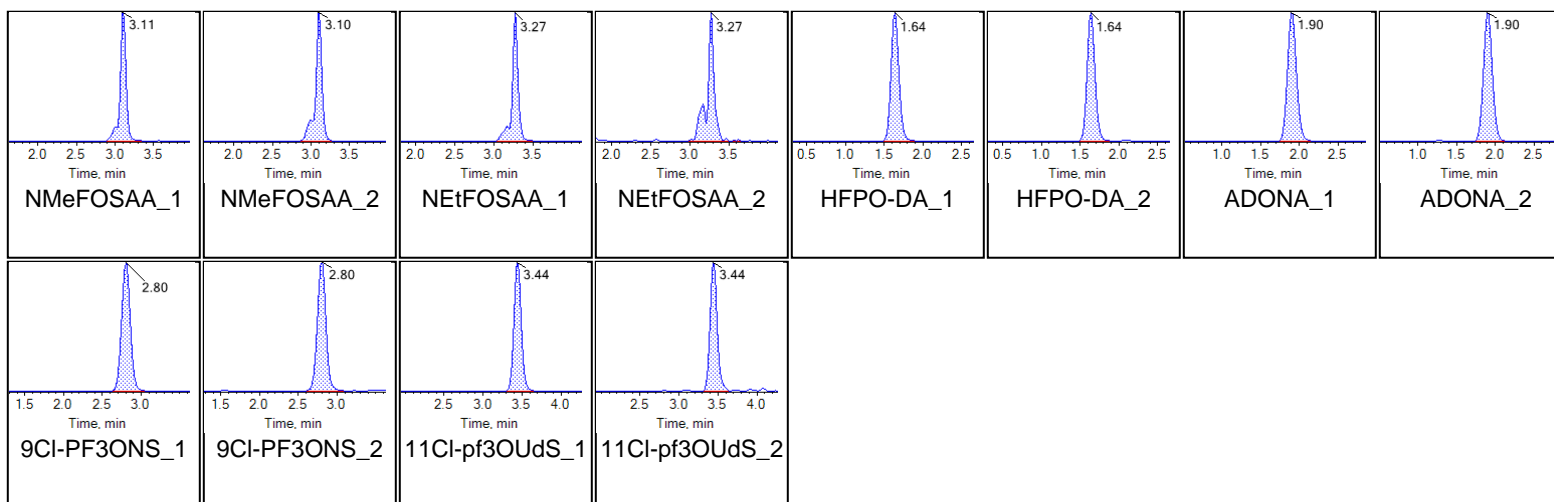
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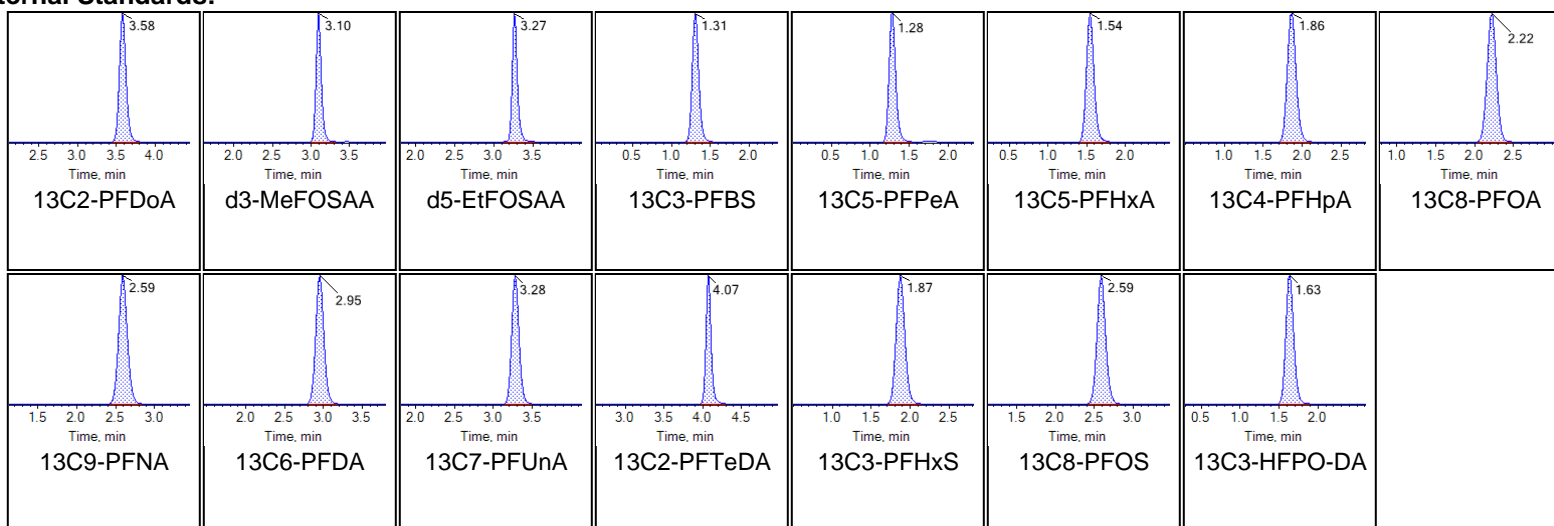




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Internal Standards:





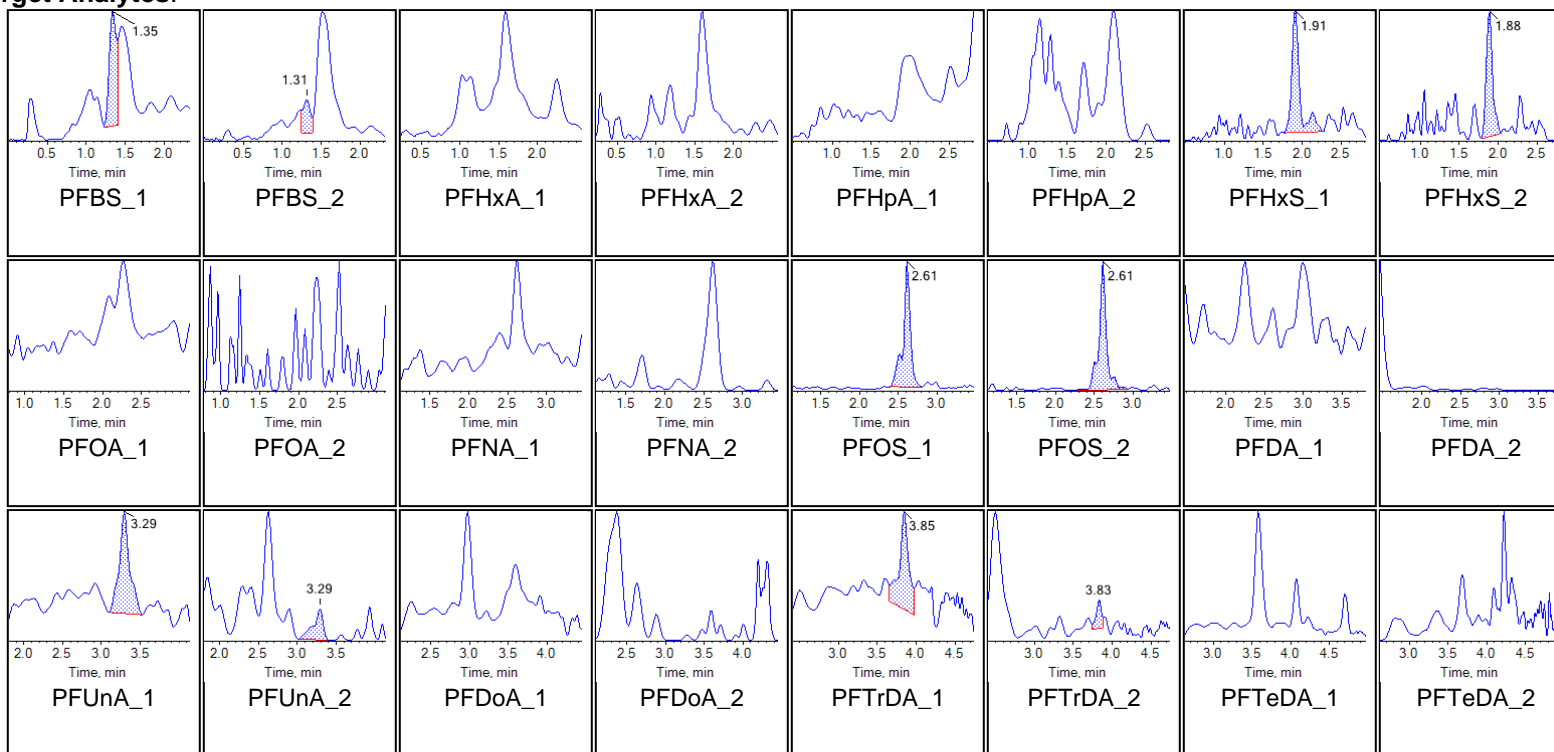
Chromatogram Report

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Sample Name	G1774-FS(0)	Injection Vial	50
Sample ID	CBD-AOA-EB01-101920-GW	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:30:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

Chromatograms

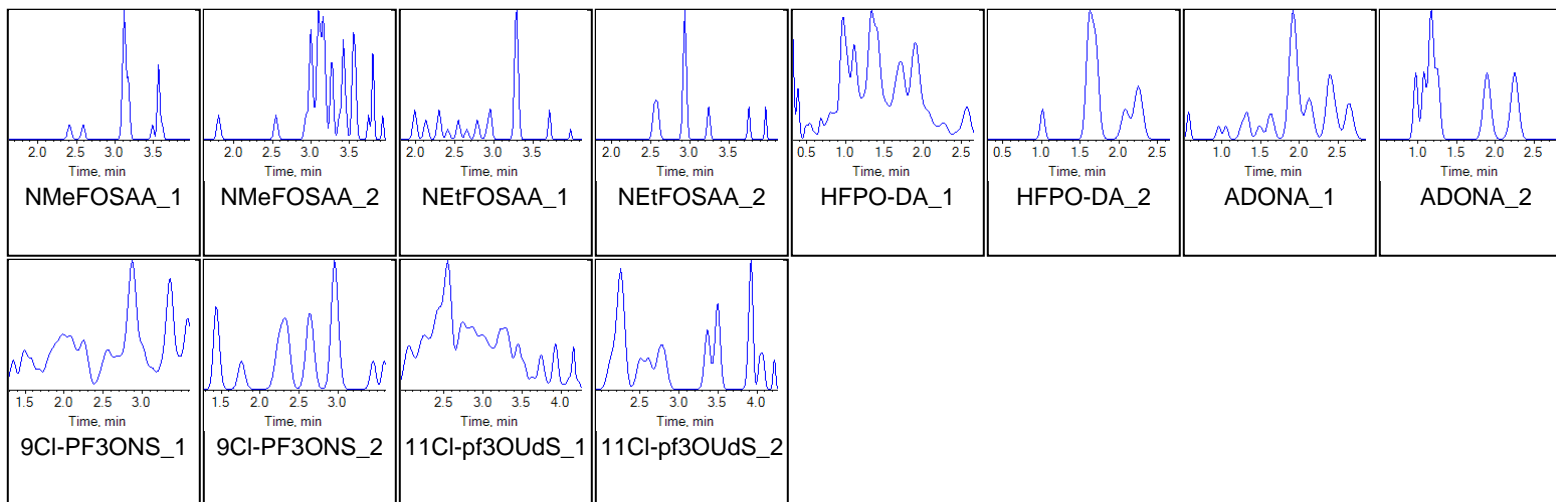
Target Analytes:



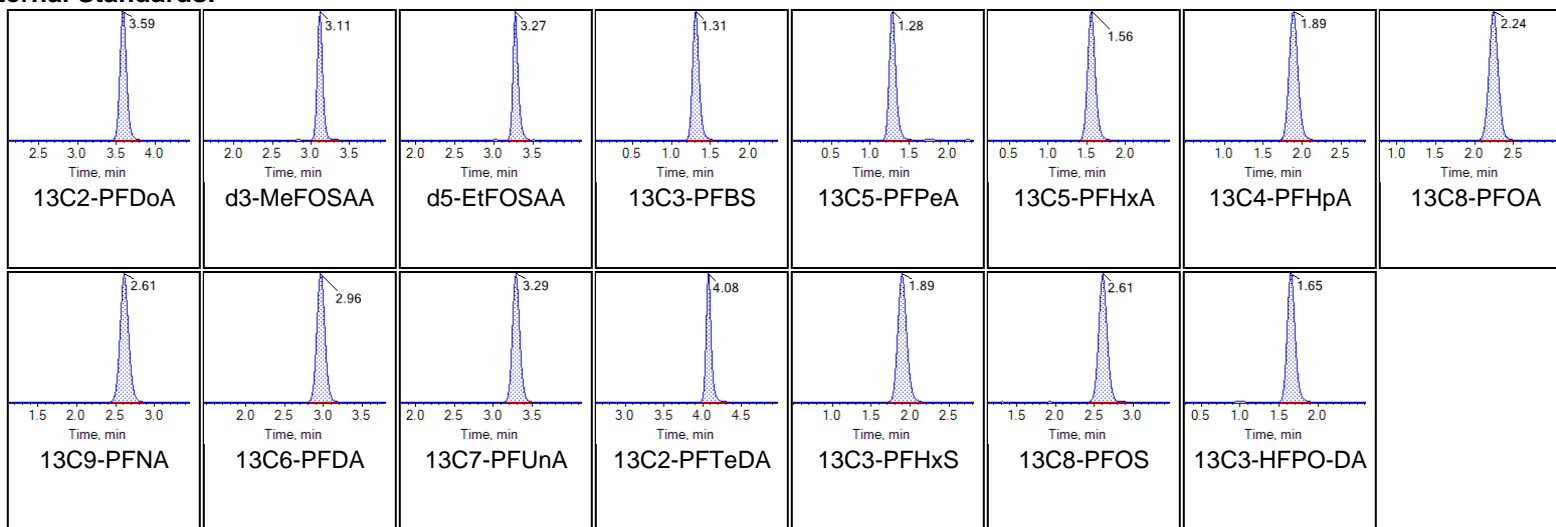


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Internal Standards:





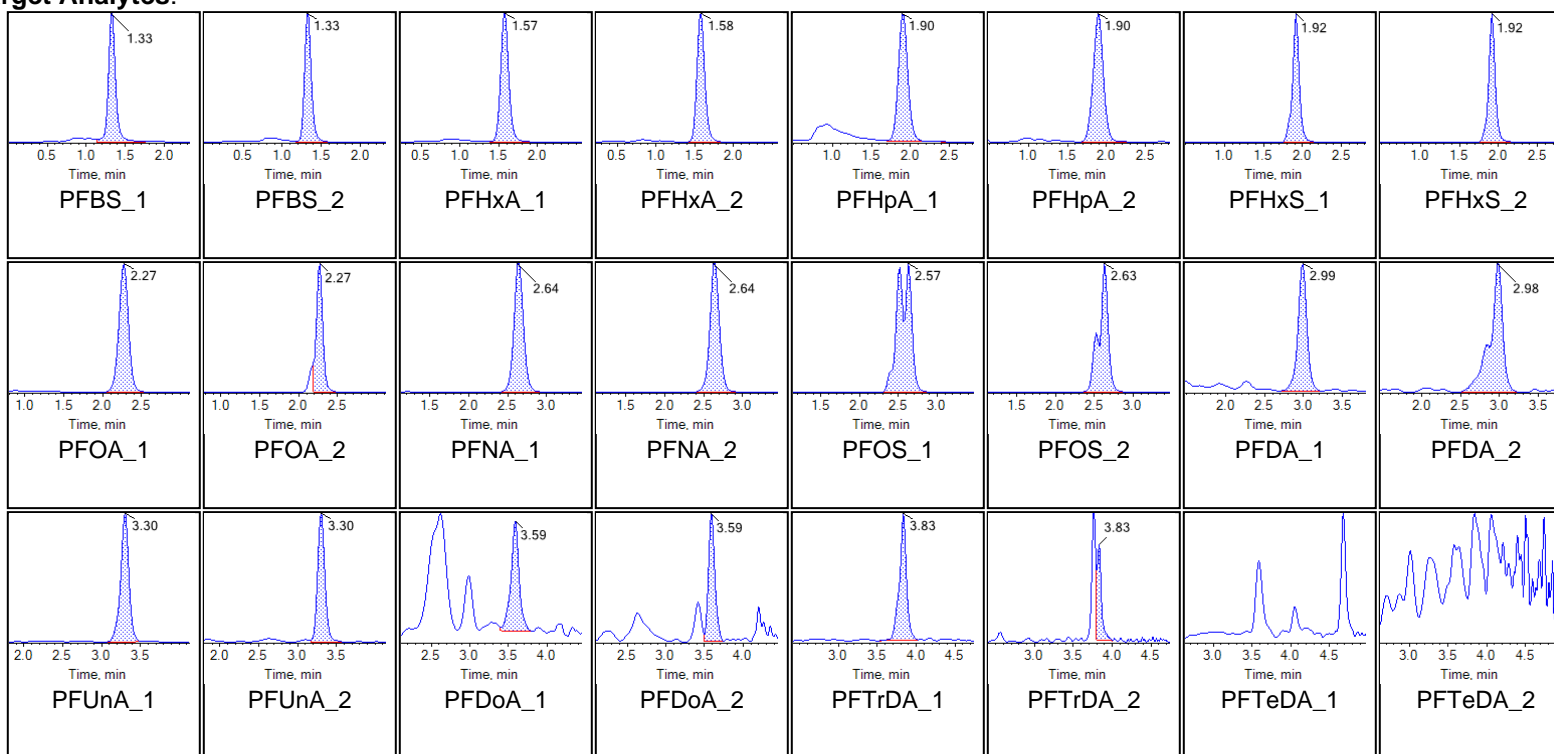
Chromatogram Report

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Printed: 17/11/2020 1:39:32 PM

Sample Name	G1775-FS(0)	Injection Vial	51
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:40:29 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

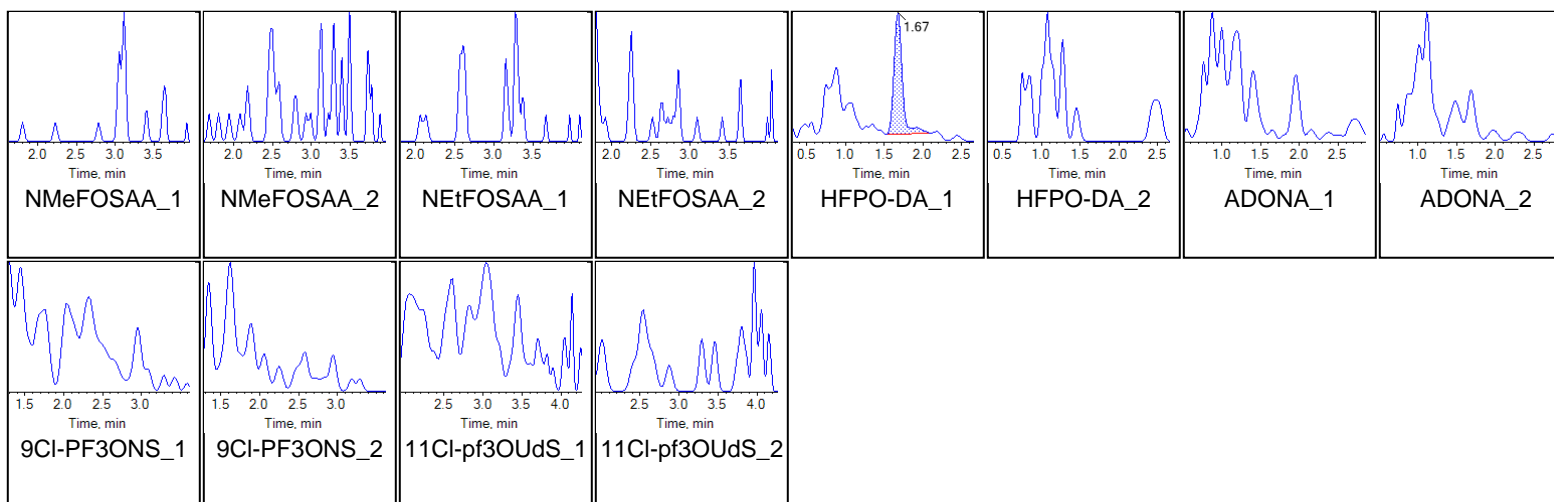
Chromatograms

Target Analytes:

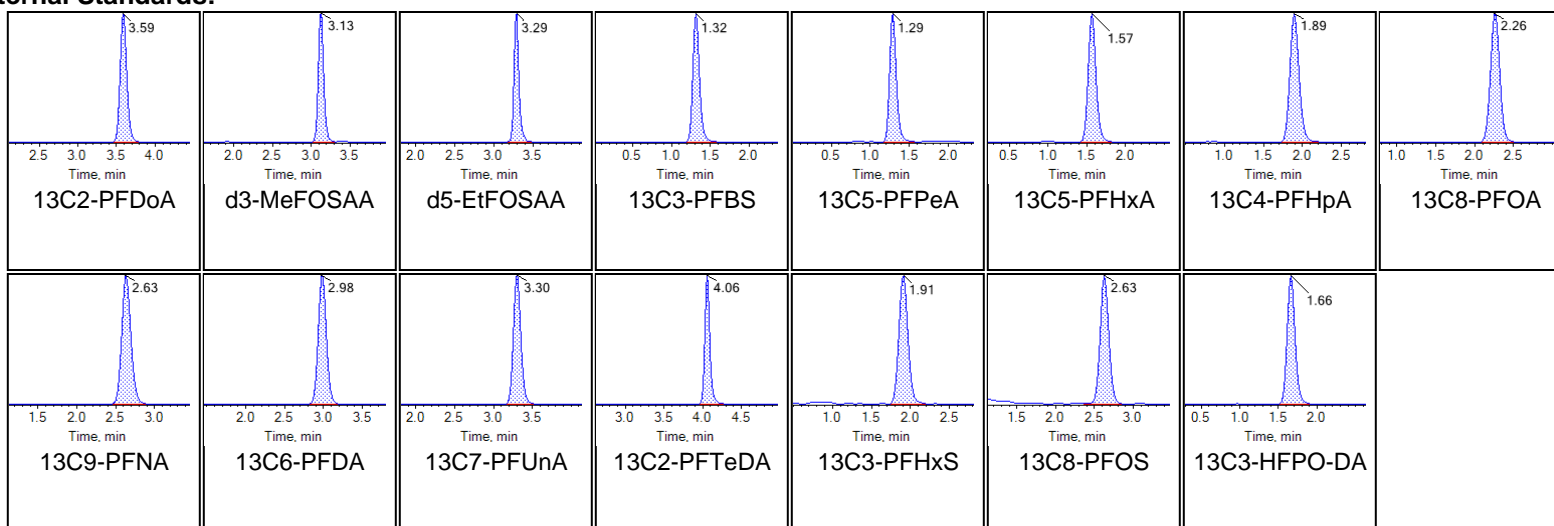




Chromatogram Report

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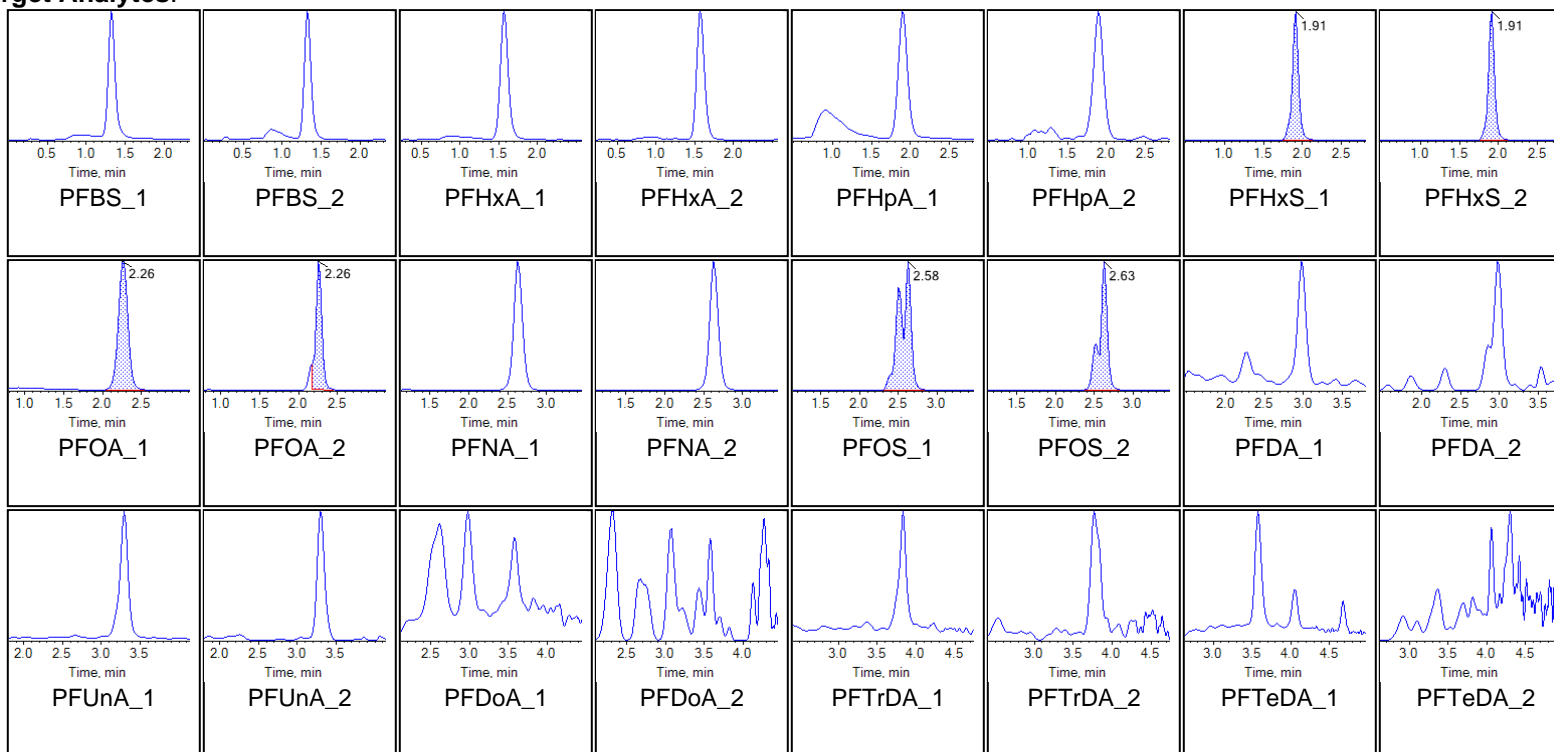
Internal Standards:



Sample Name	G1775-FS-D(3)	Injection Vial	52
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:50:57 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

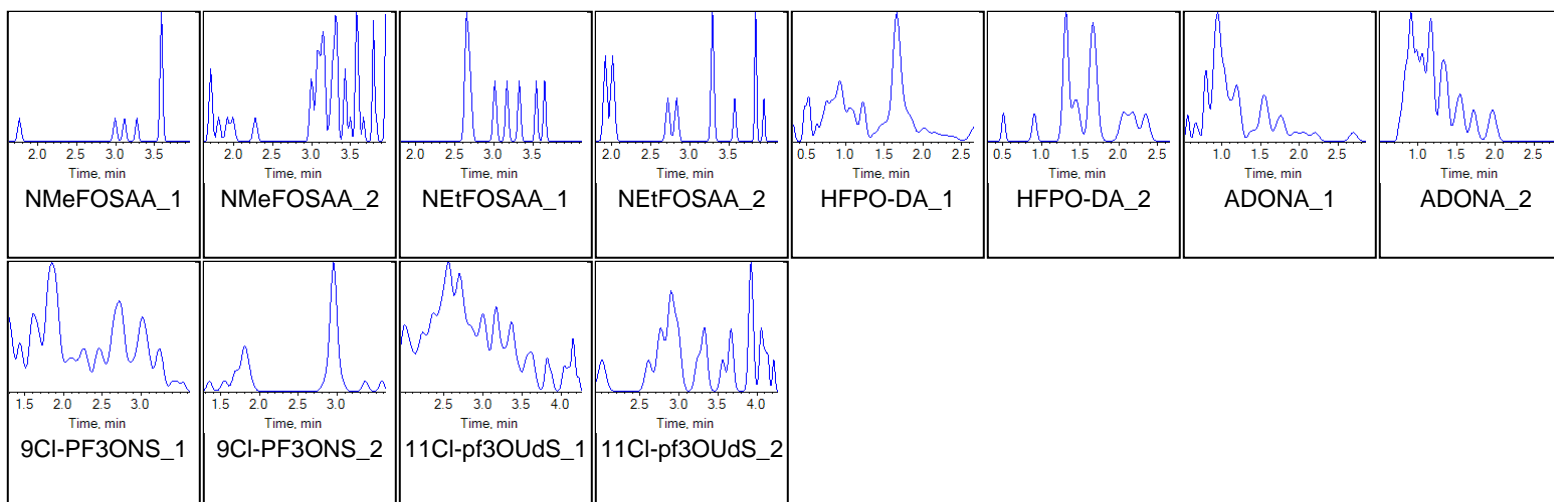
Chromatograms

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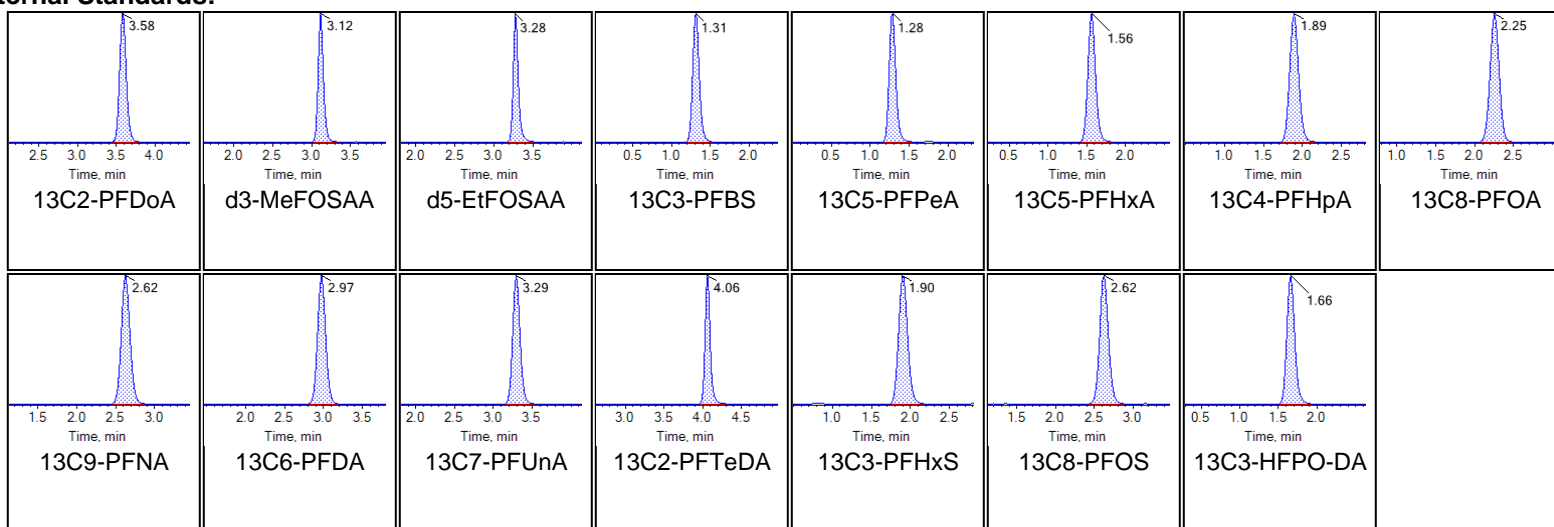




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Internal Standards:





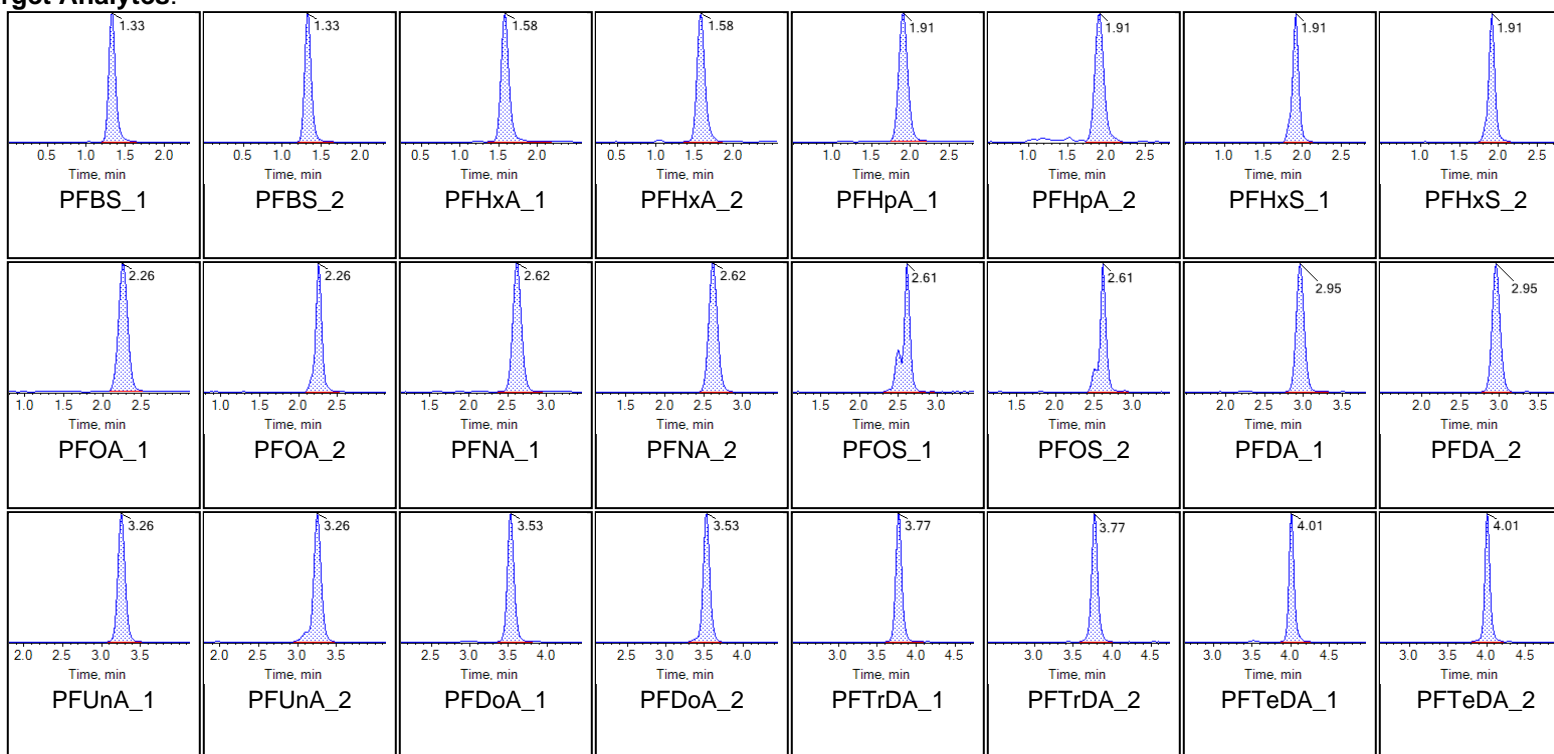
Chromatogram Report

Created with Analyst Reporter
Printed: 17/11/2020 1:39:32 PM

Sample Name	LE76 CCV	Injection Vial	1
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:22:20 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

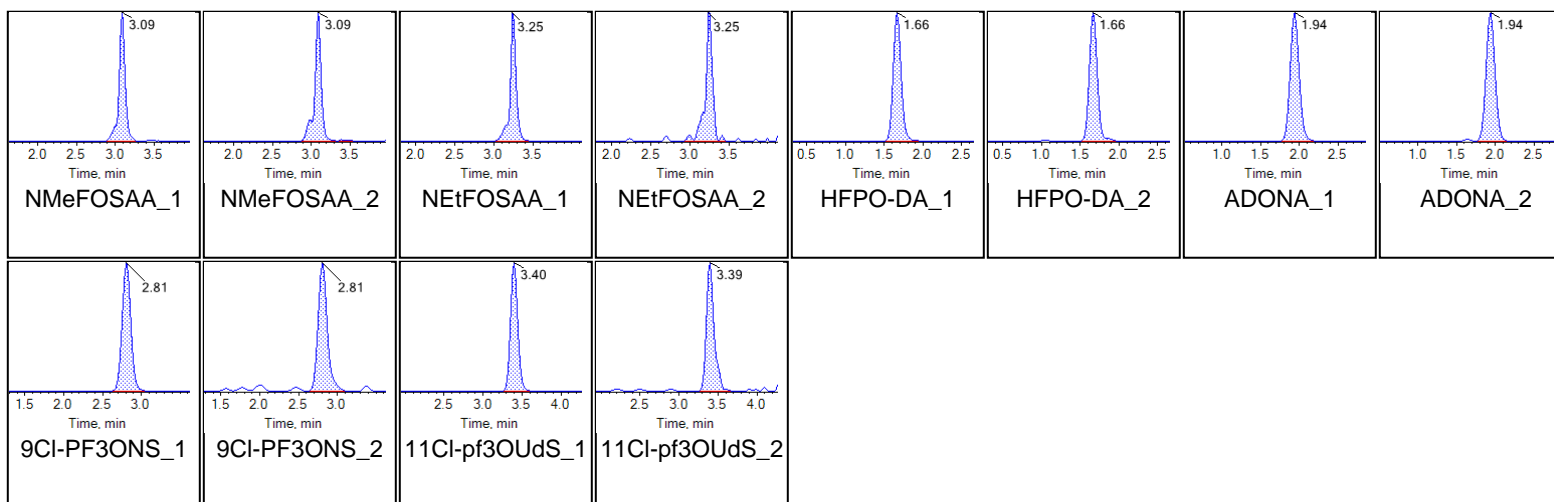
Chromatograms

Target Analytes:

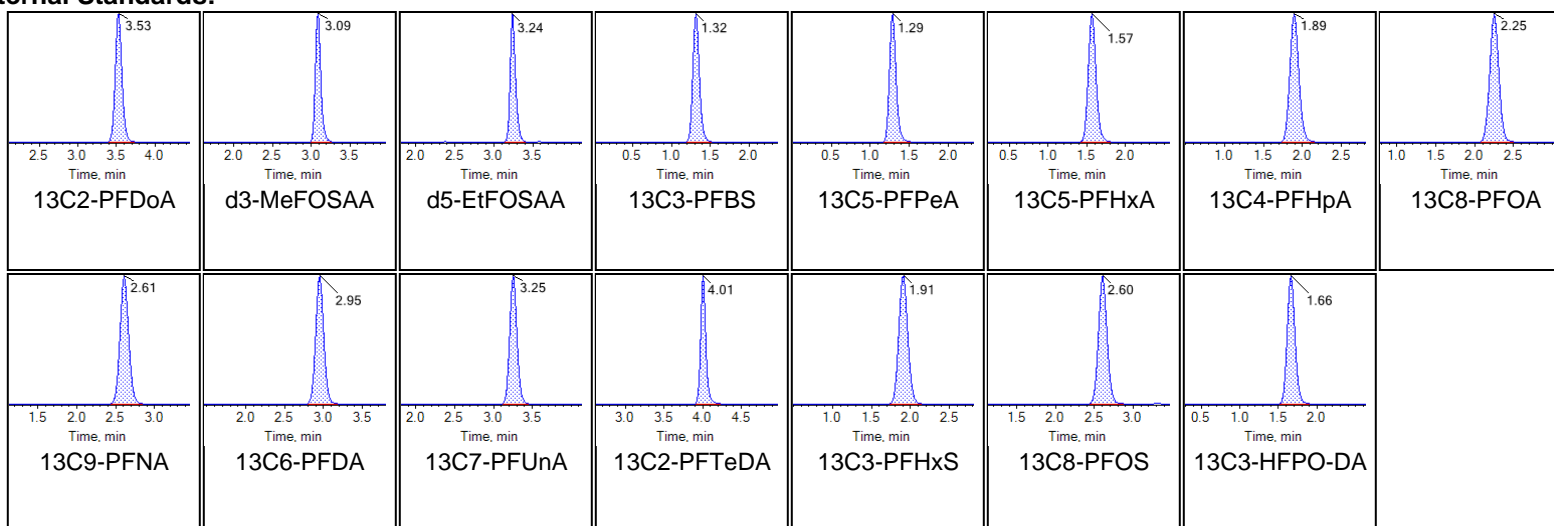




Chromatogram Report

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Internal Standards:





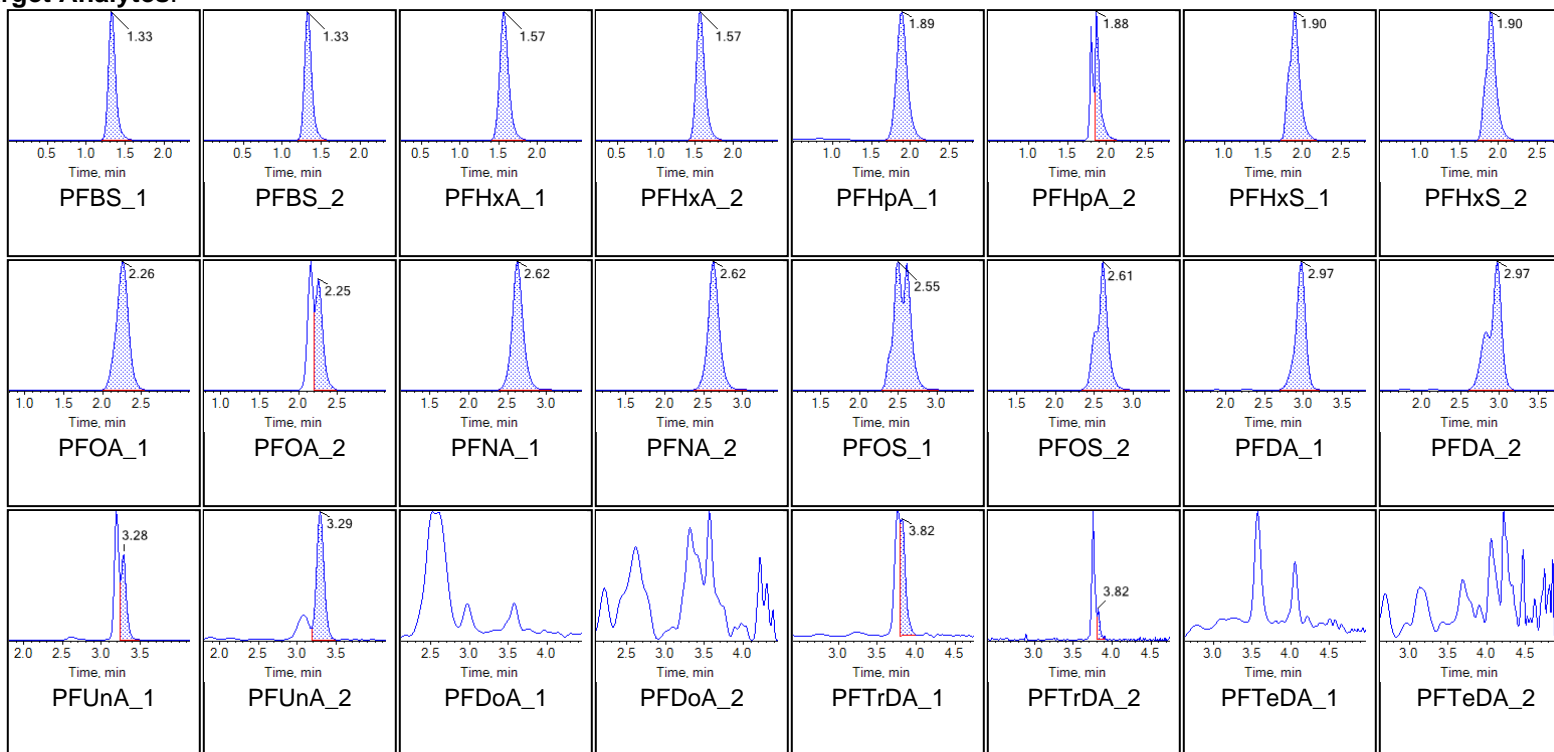
Chromatogram Report

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Sample Name	G1769-FS(0)	Injection Vial	2
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:32:48 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

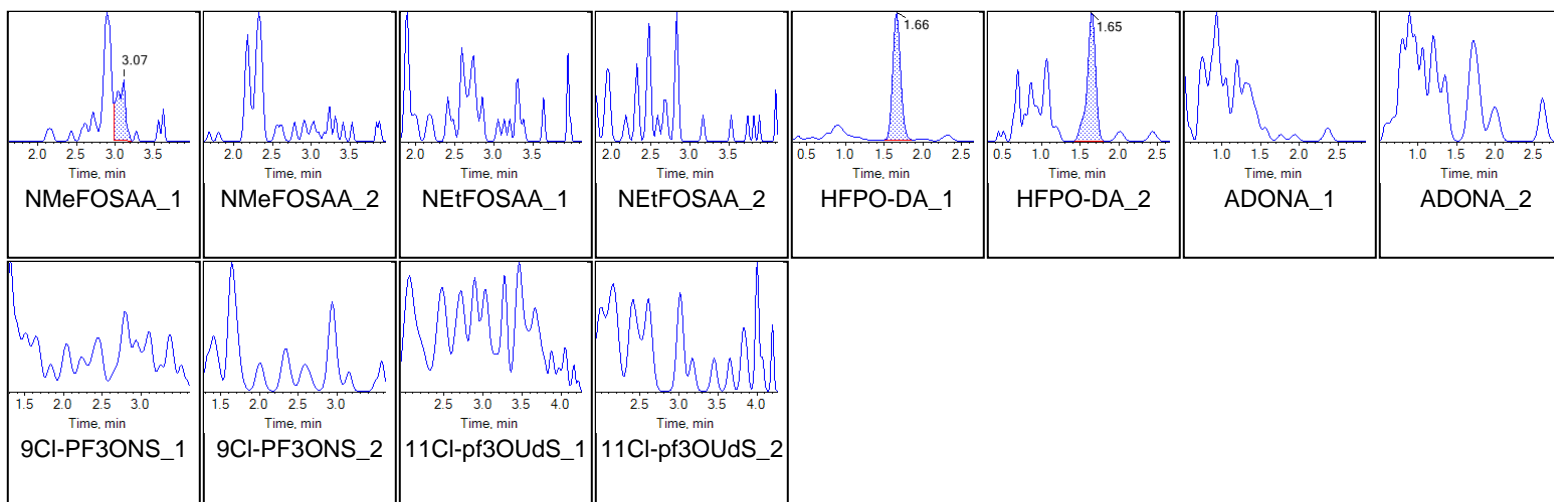
Chromatograms

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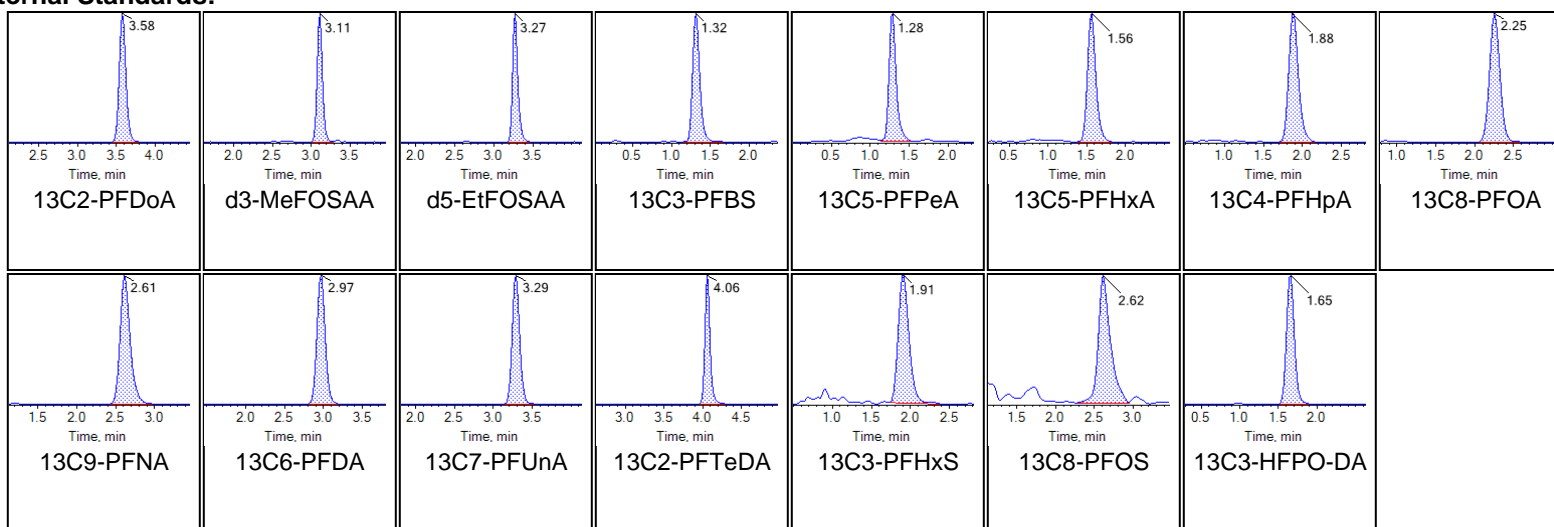




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Internal Standards:





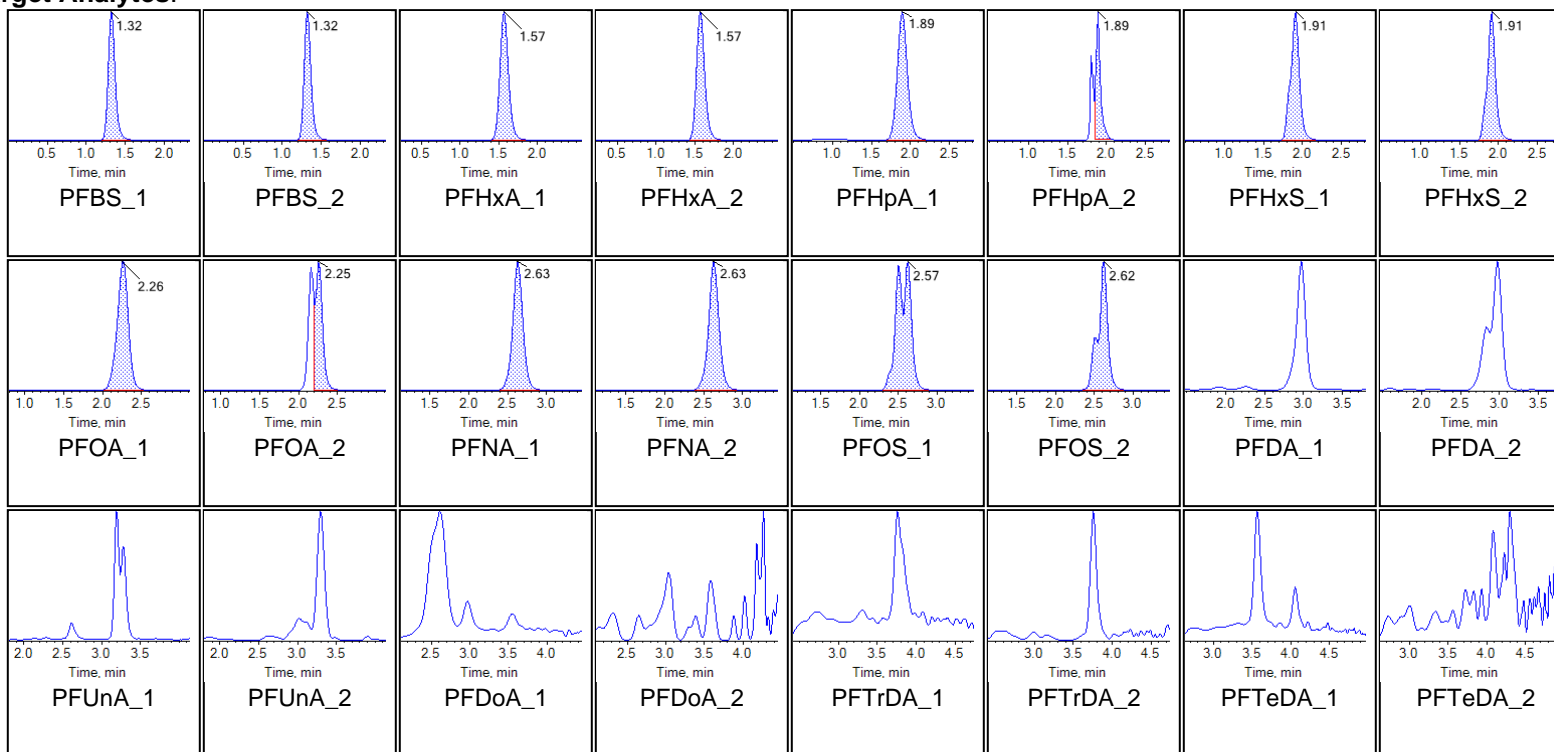
Chromatogram Report

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Sample Name	G1769-FS-D(3)	Injection Vial	3
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:43:16 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

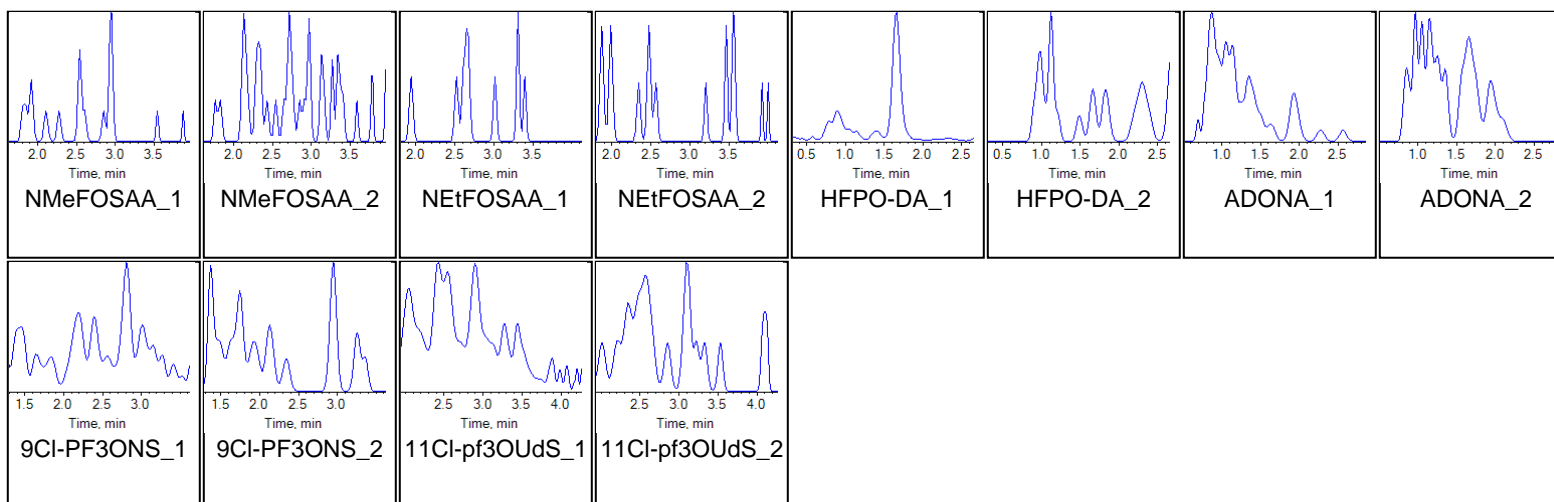
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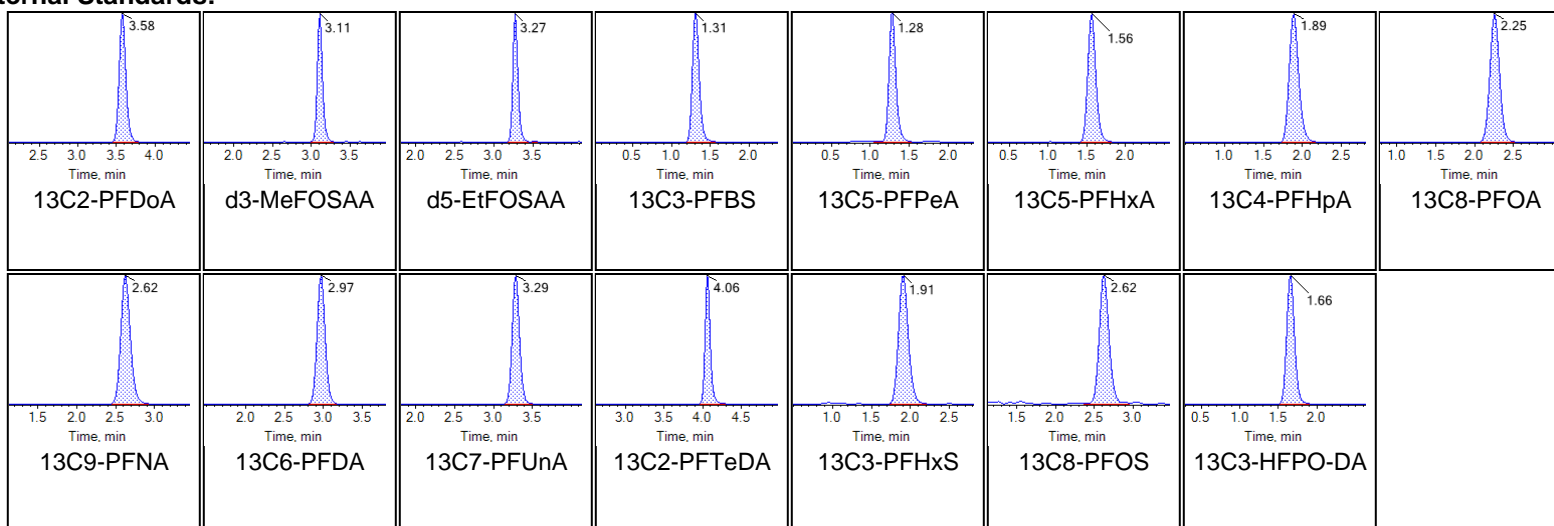




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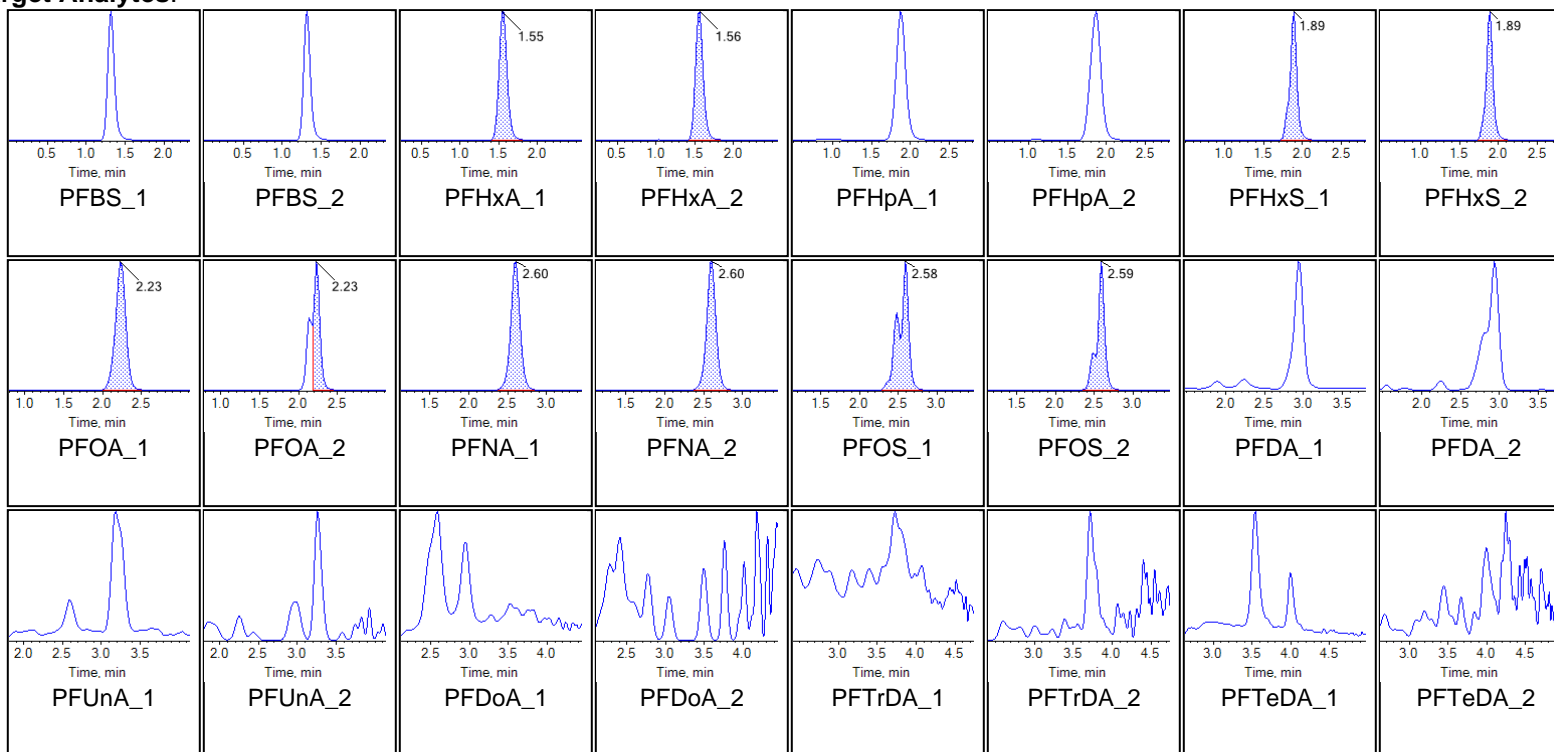
Internal Standards:



Sample Name	G1769-FS-D(7)	Injection Vial	5
Sample ID	CBD-AOA-MW08-1020	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	20-1321

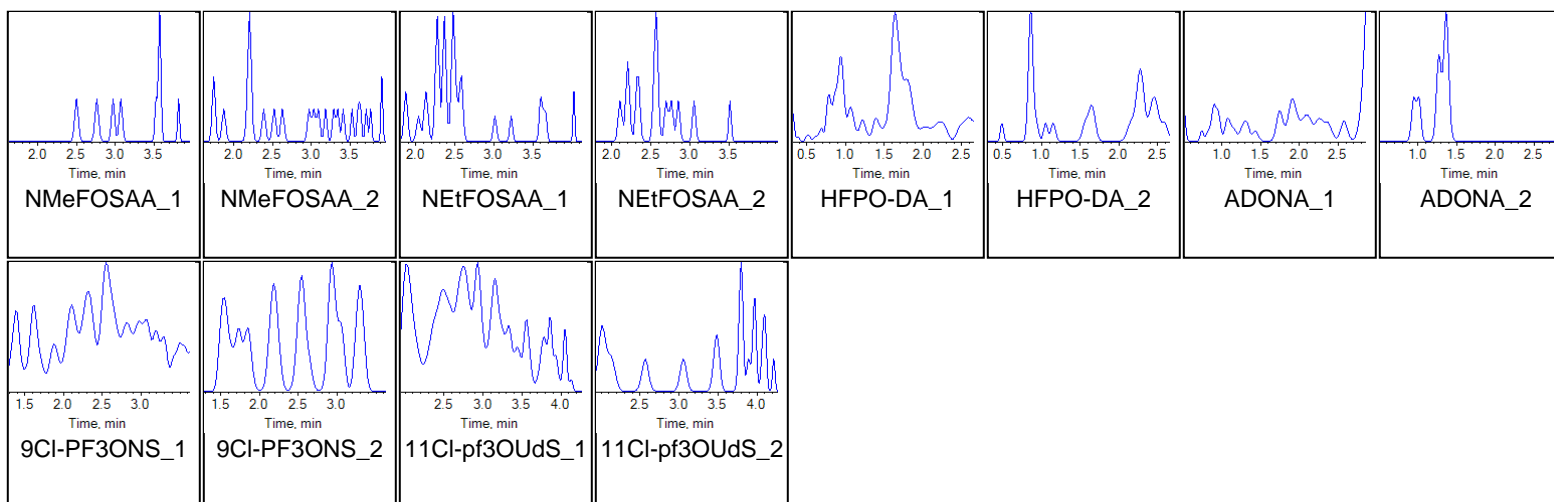
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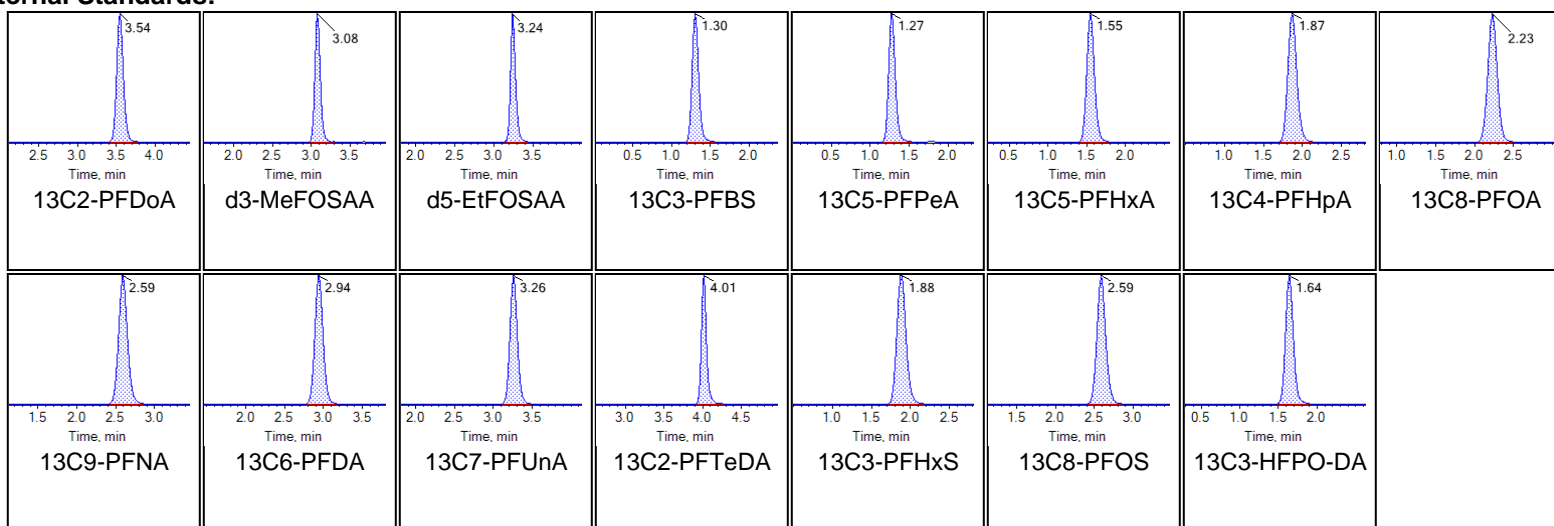




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Internal Standards:





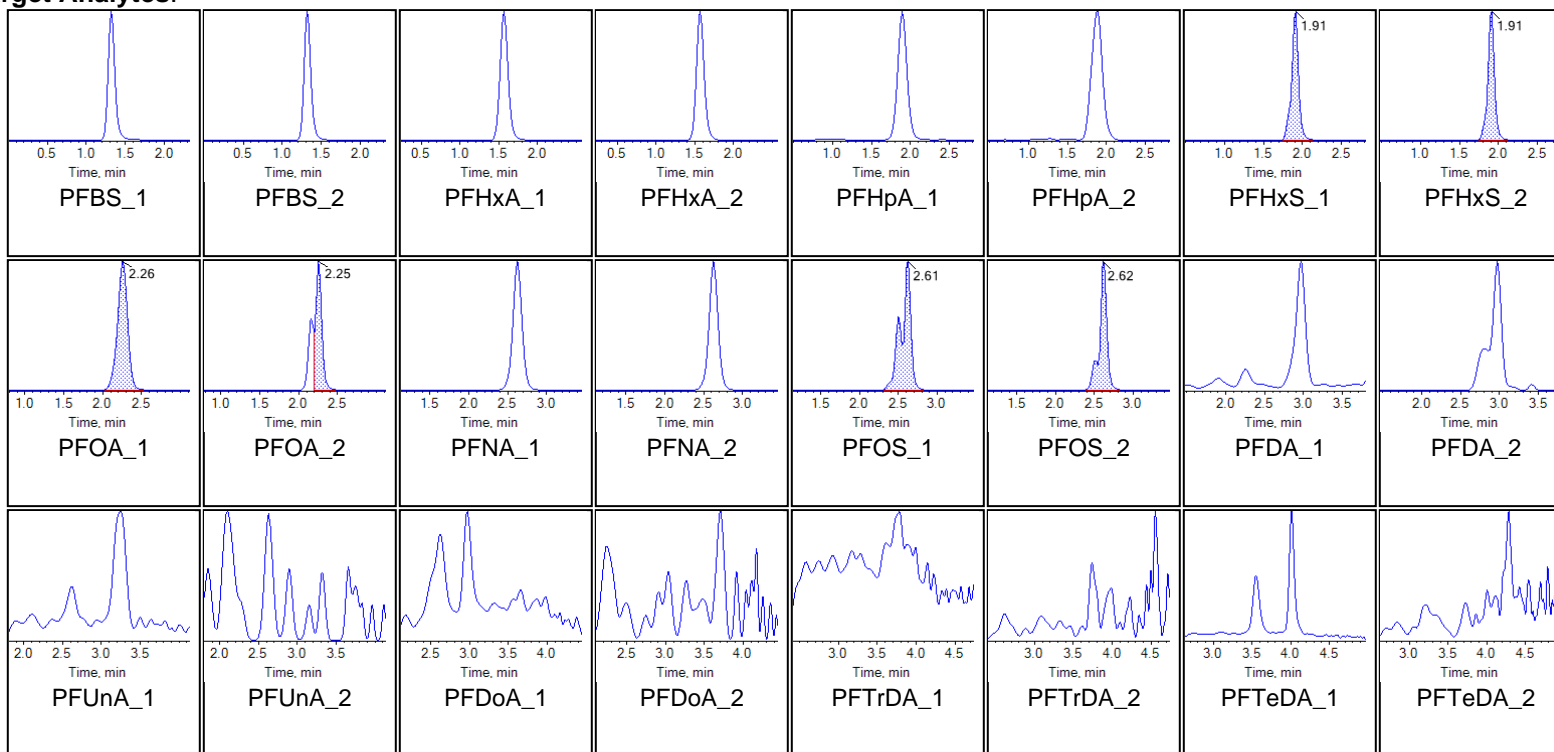
Chromatogram Report

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Sample Name	G1769-FS-D(9)	Injection Vial	6
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:14:44 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

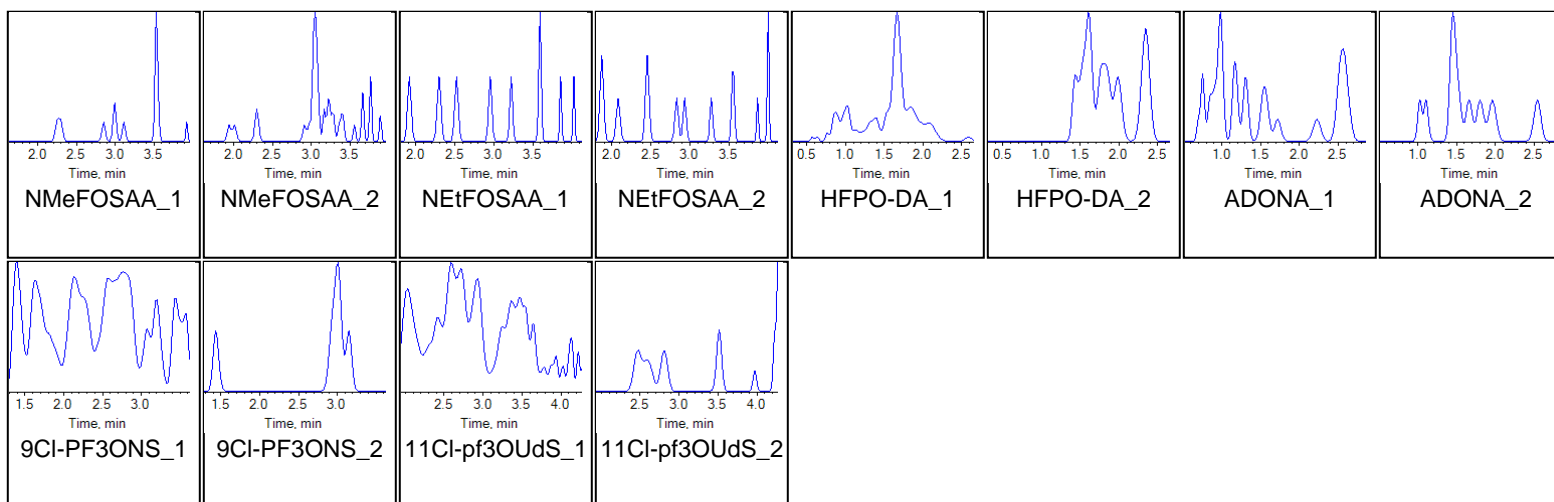
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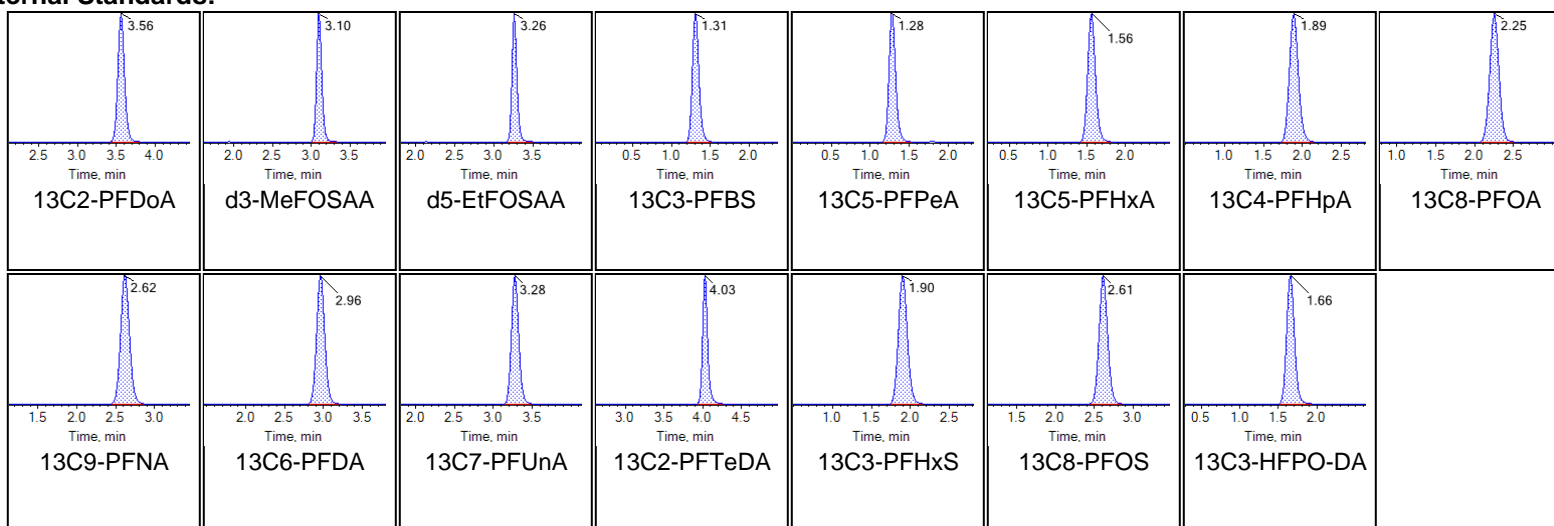




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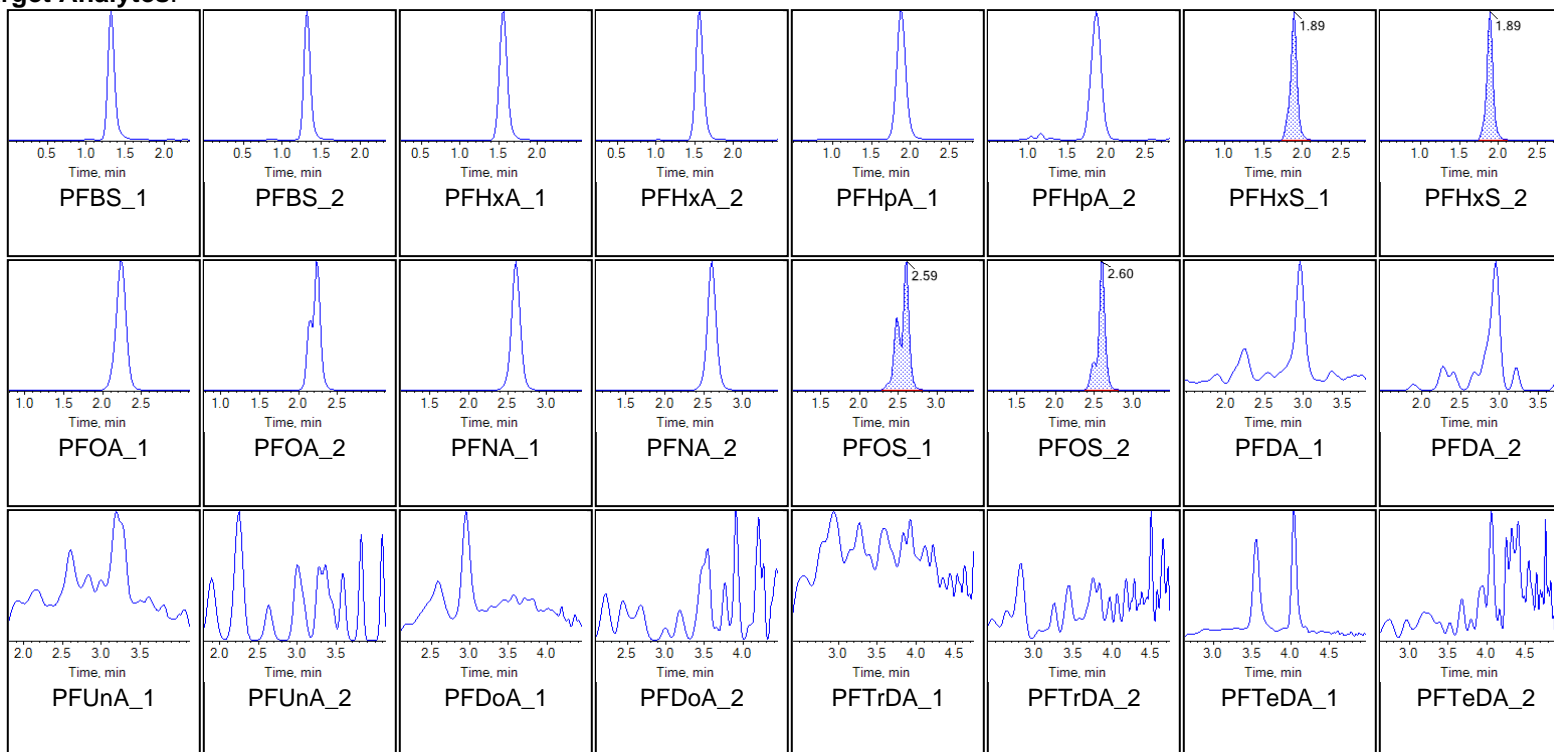
Internal Standards:



Sample Name	G1769-FS-D(11)	Injection Vial	7
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:25:14 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

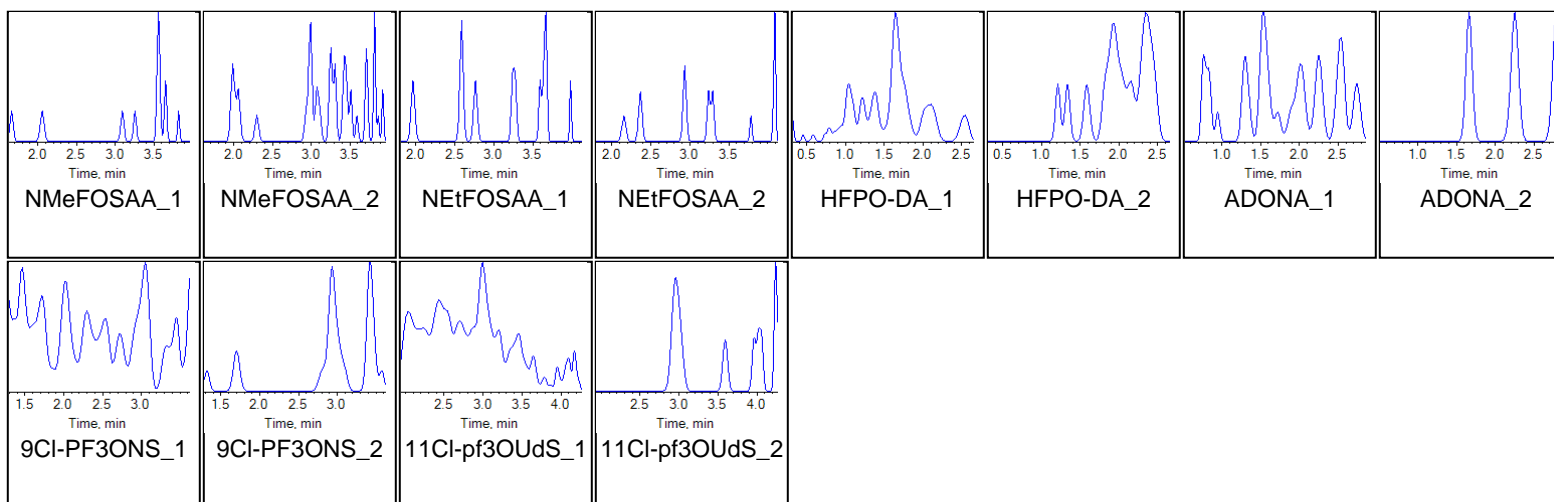
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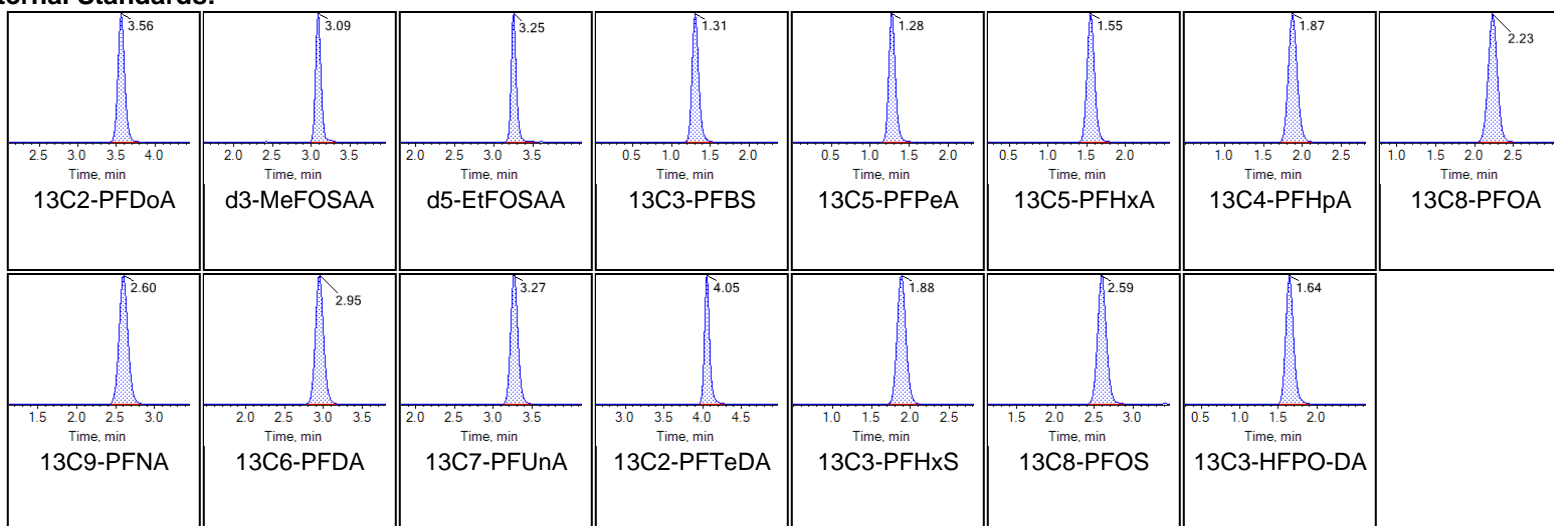




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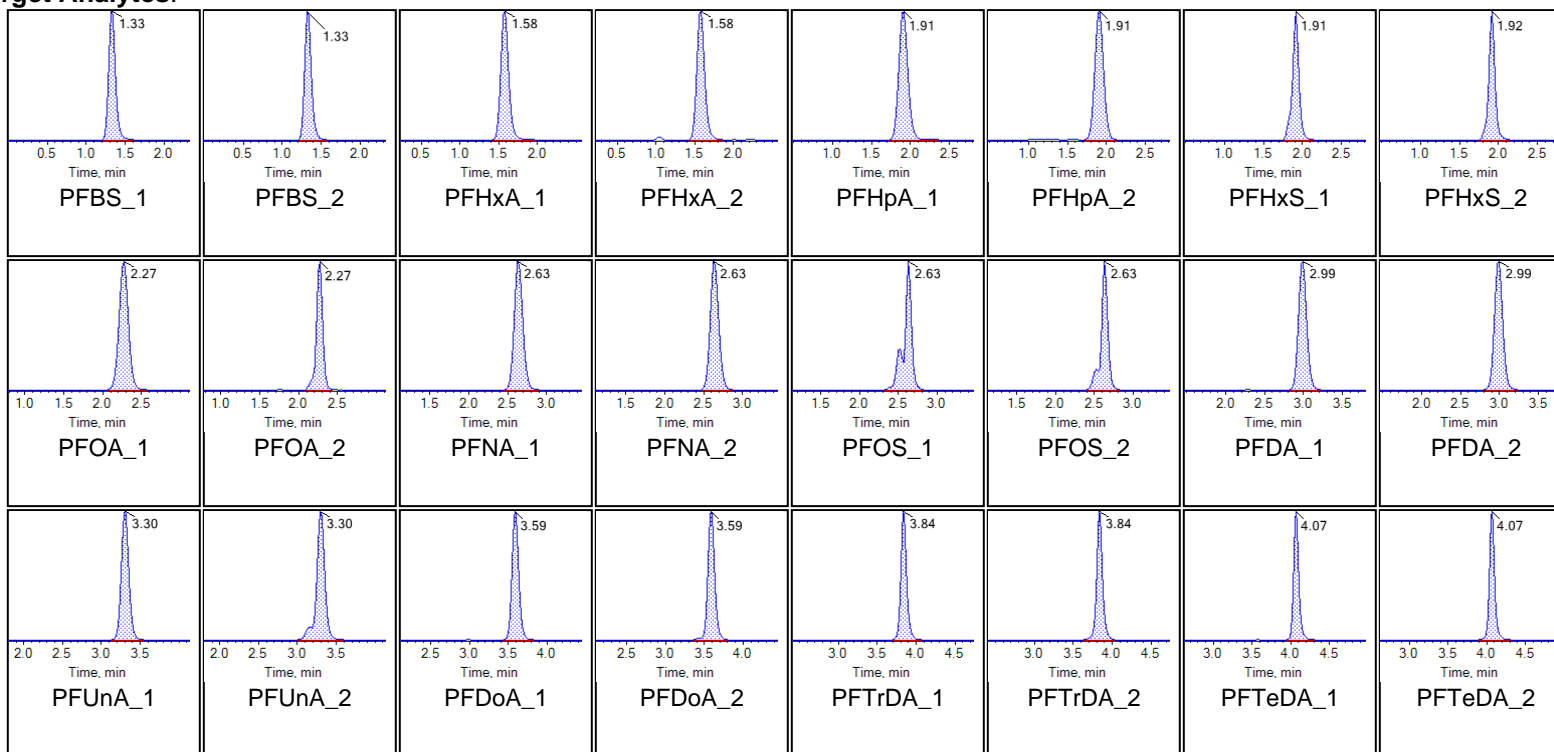
Internal Standards:



Sample Name	LE77 CCV	Injection Vial	9
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:46:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

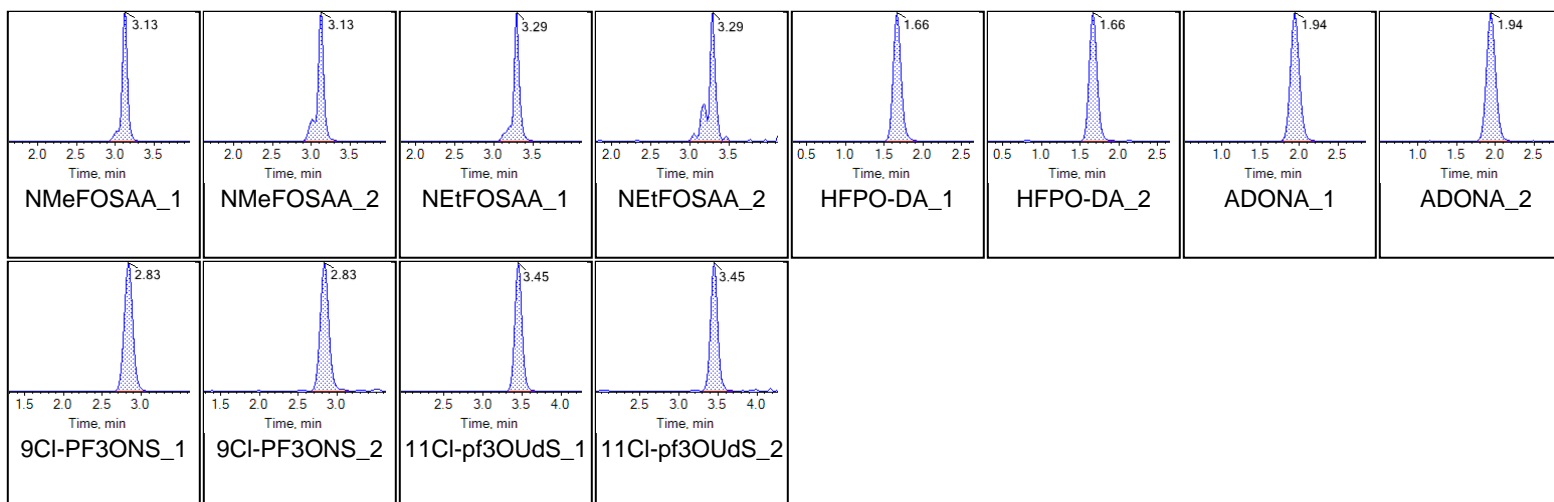
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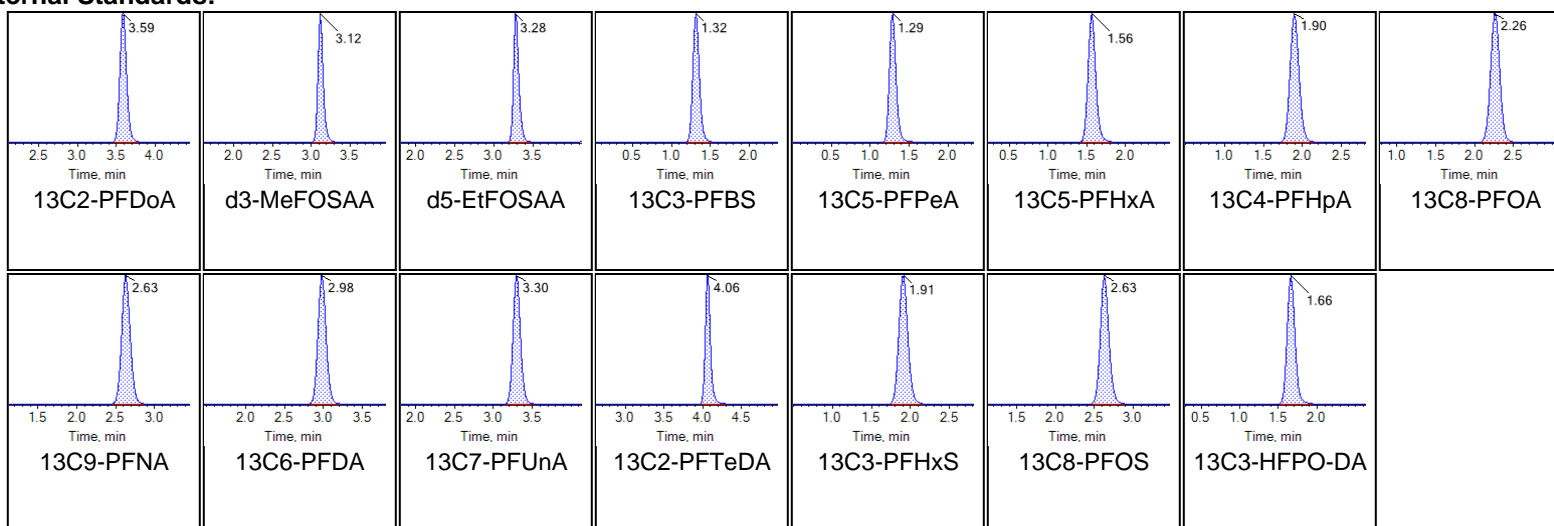




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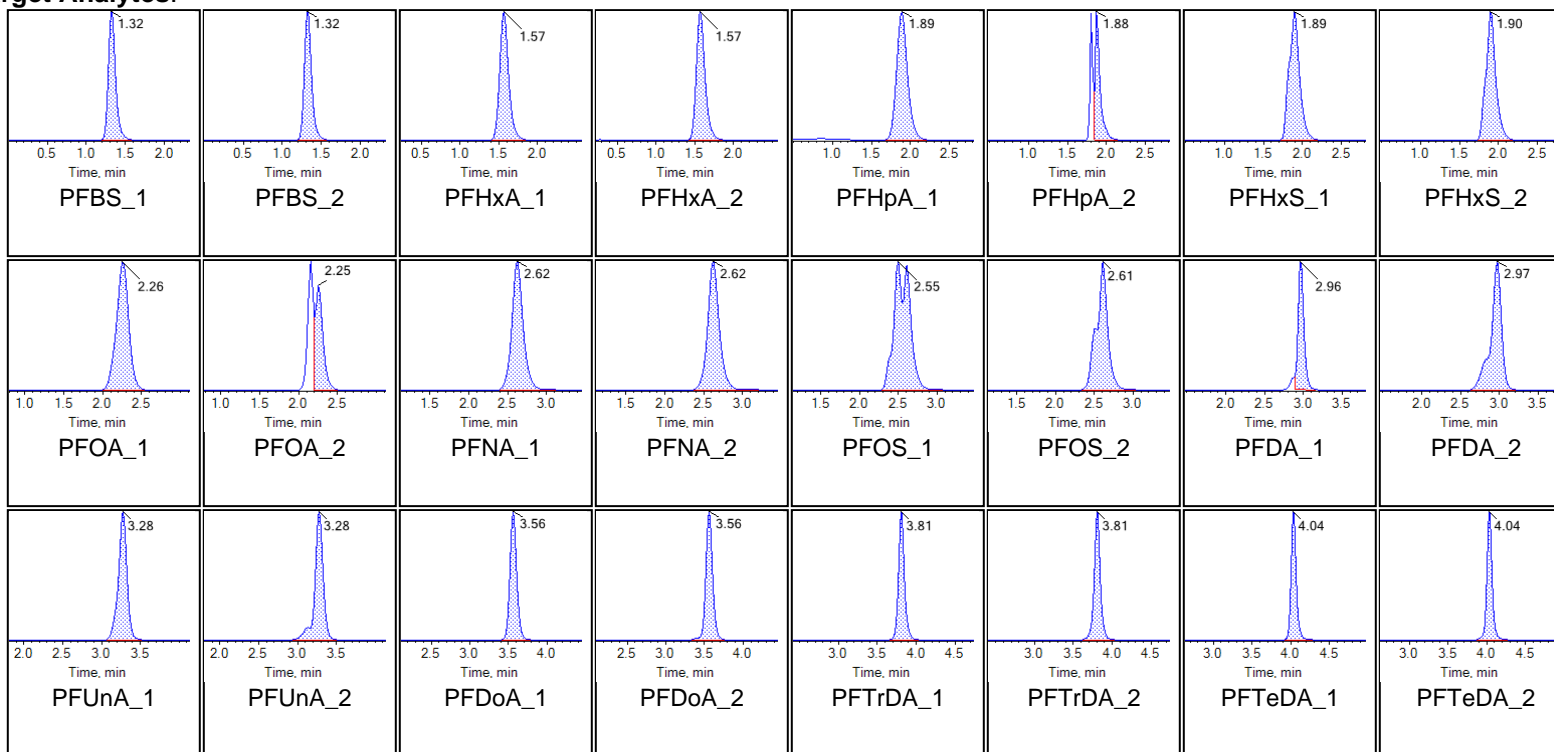
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Sample Name	G1770MS-FS(0)	Injection Vial	10
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
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Acquisition Method	5-369.dam	Result Table	20-1321

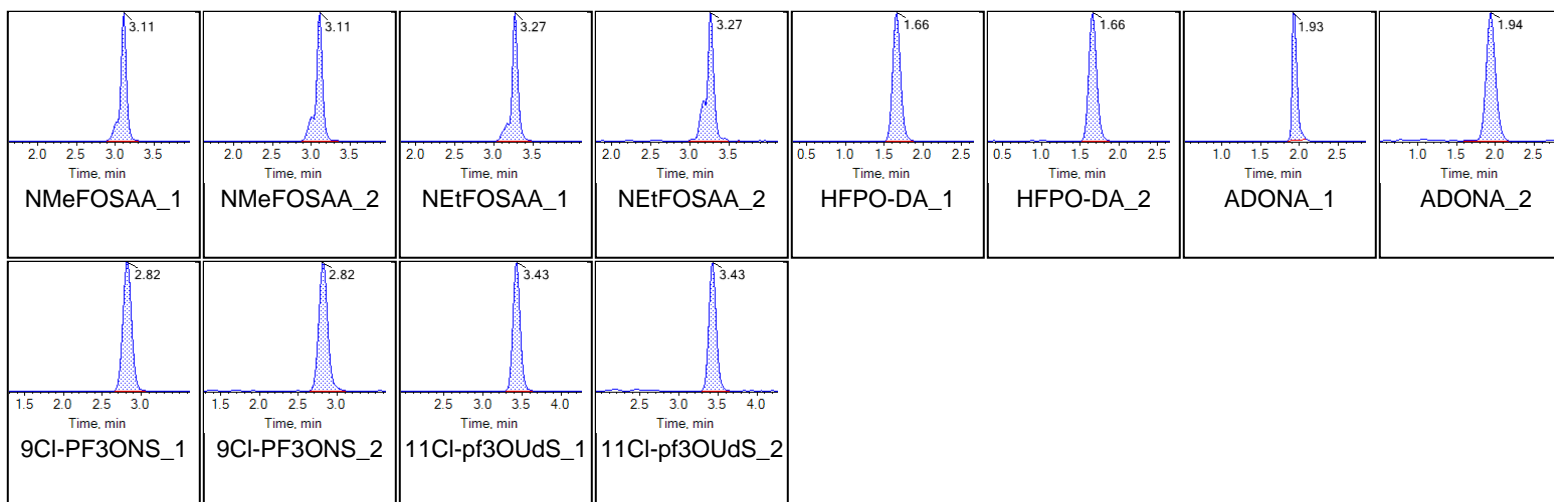
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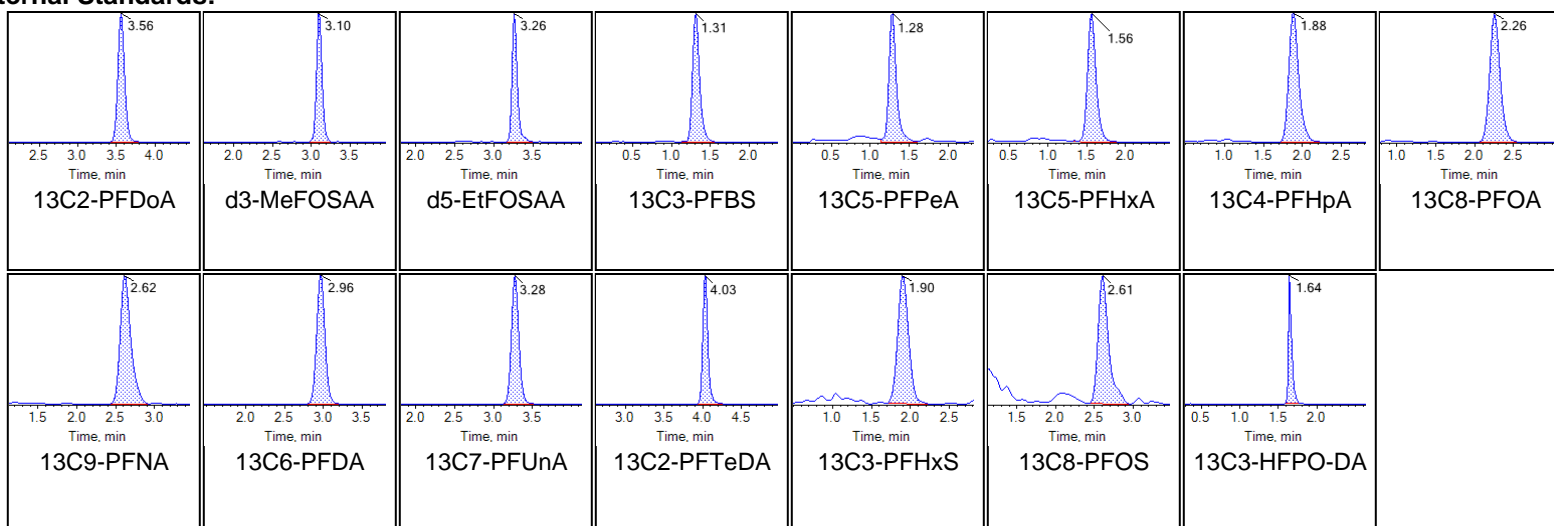




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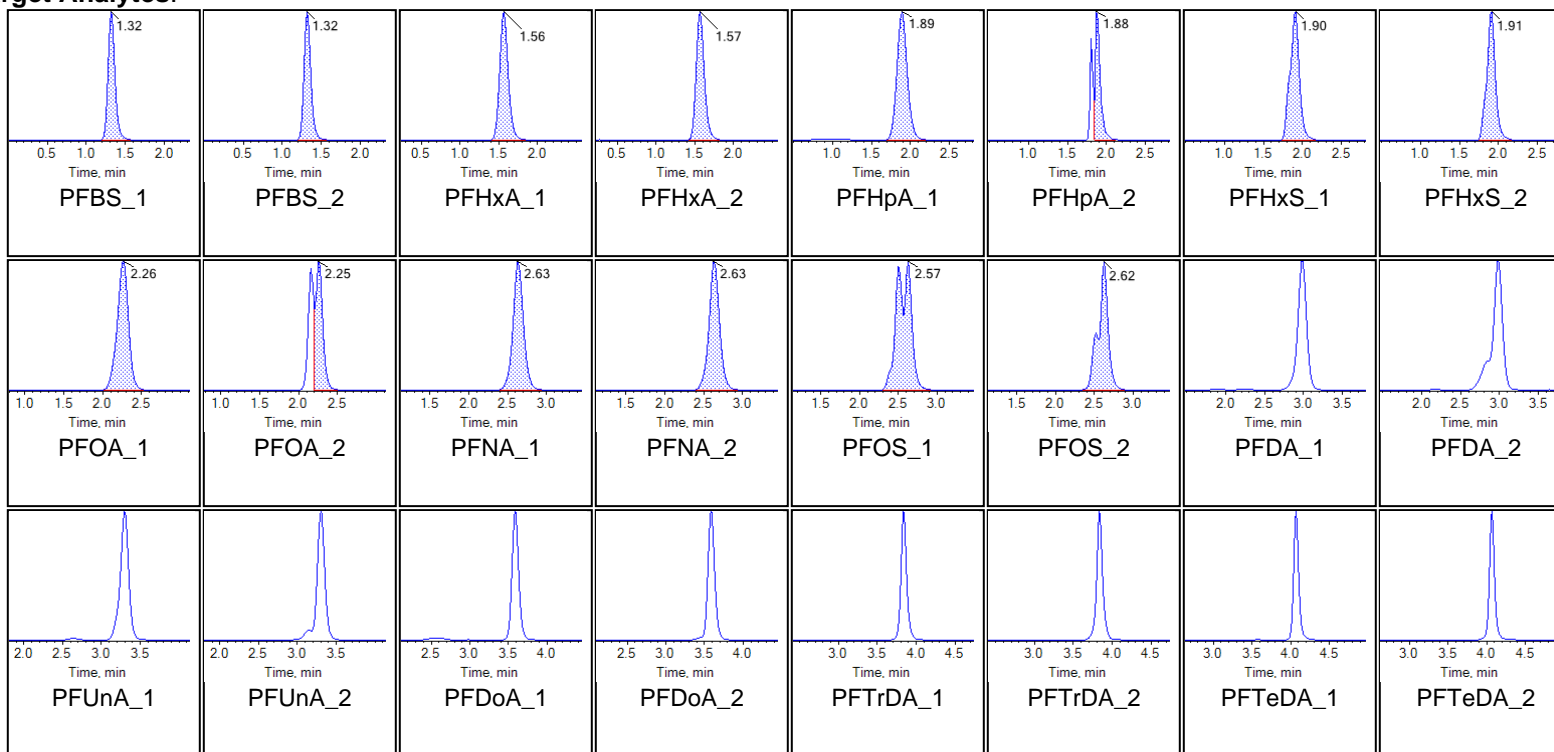
Chromatogram Report

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Sample Name	G1770MS-FS-D(3)	Injection Vial	11
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:07:07 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

Chromatograms

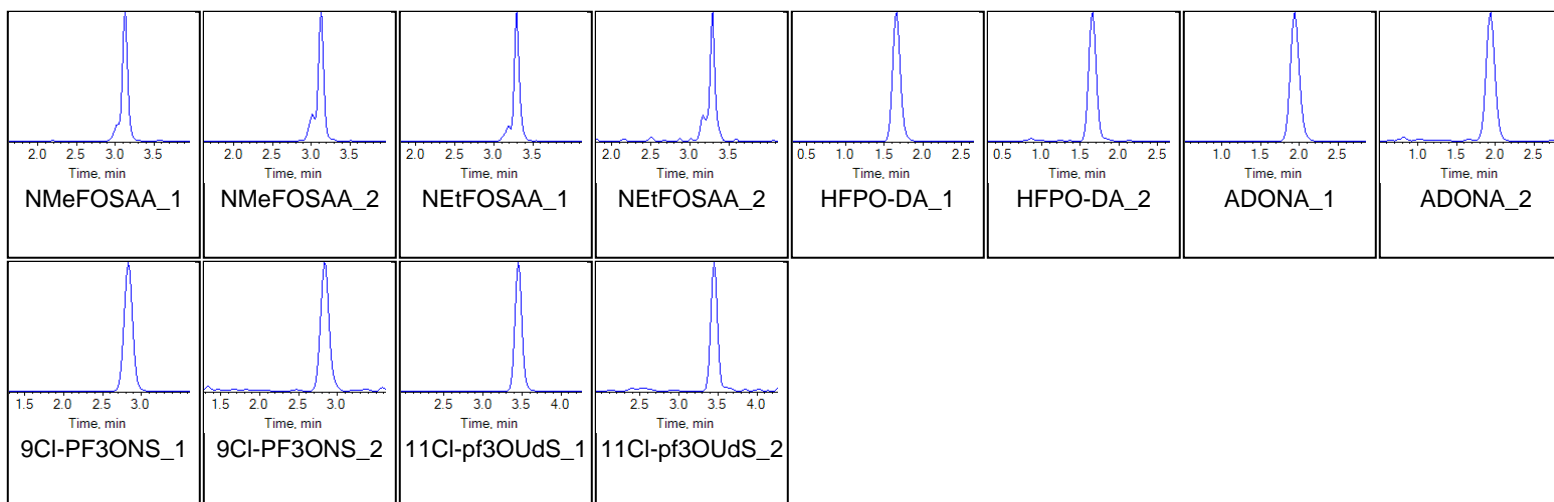
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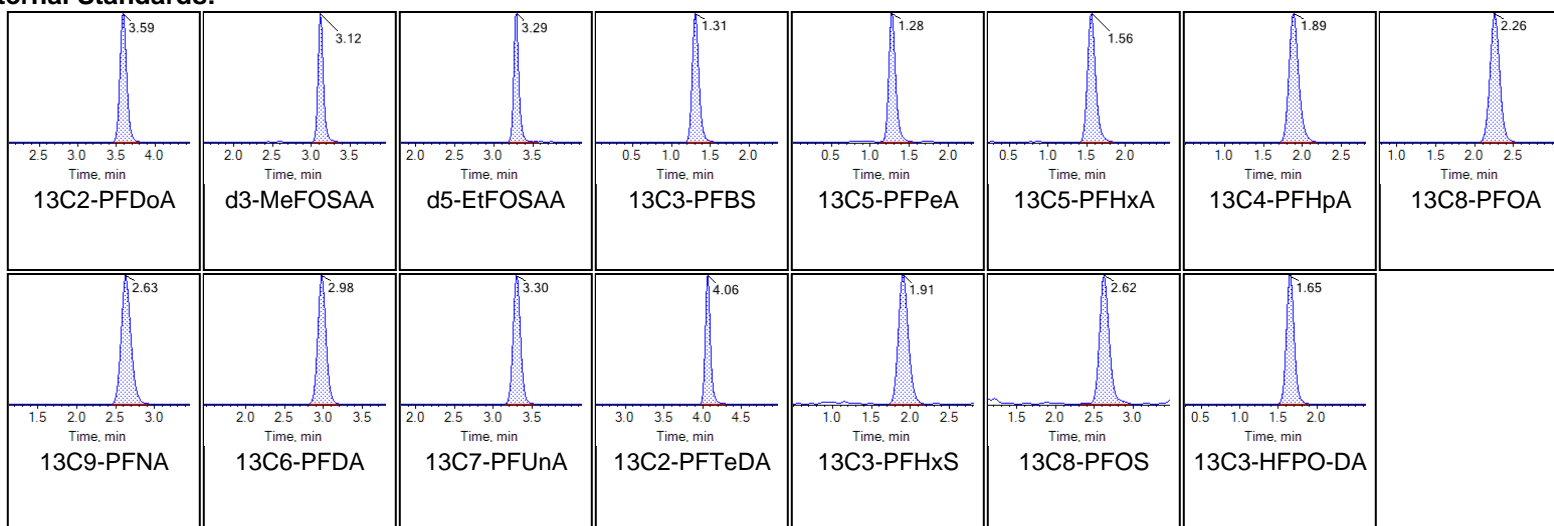


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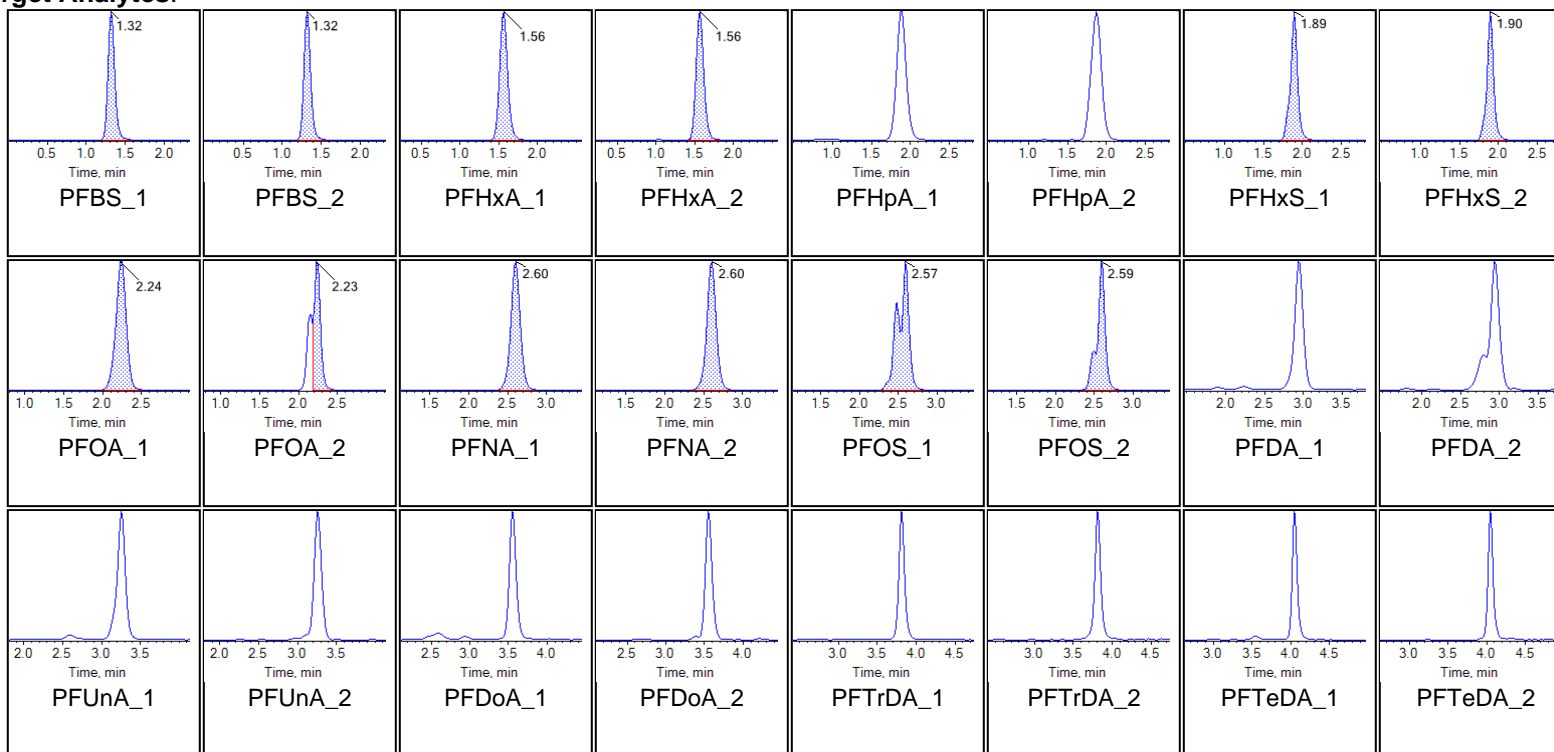
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Sample Name	G1770MS-FS-D(7)	Injection Vial	13
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:28:05 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

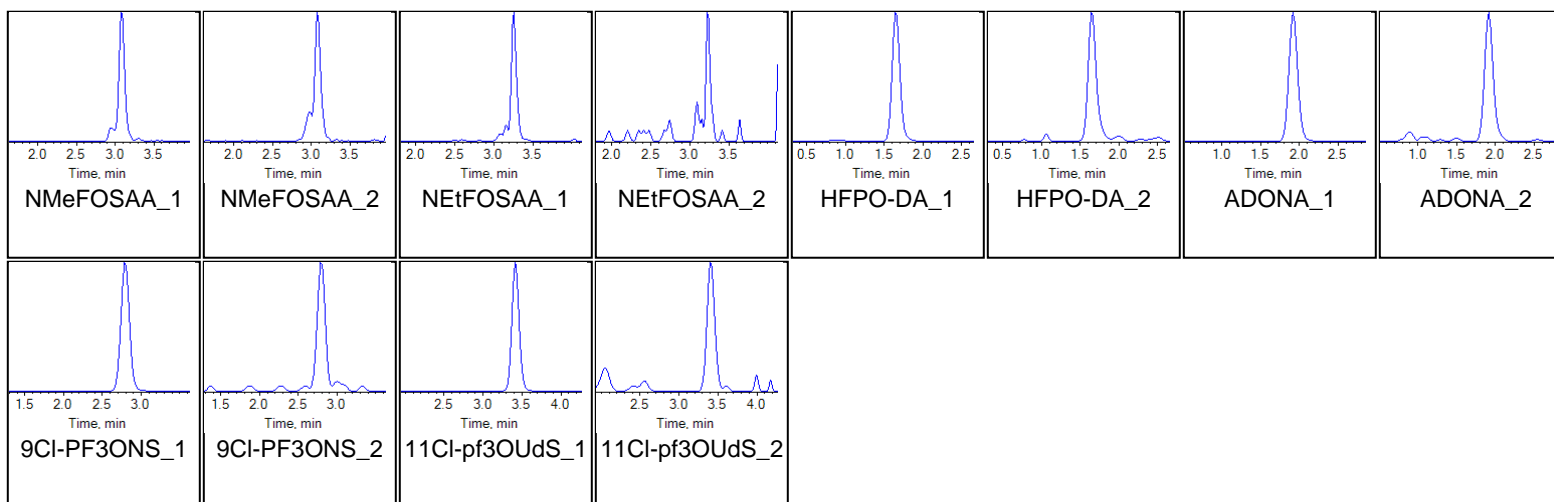
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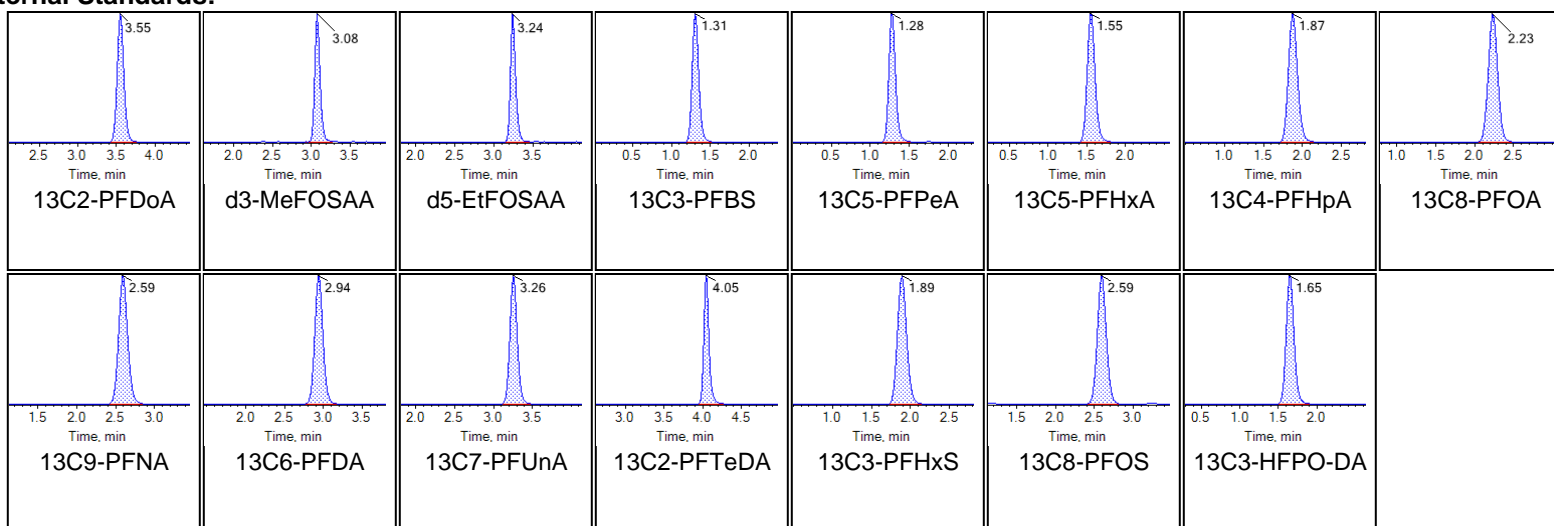




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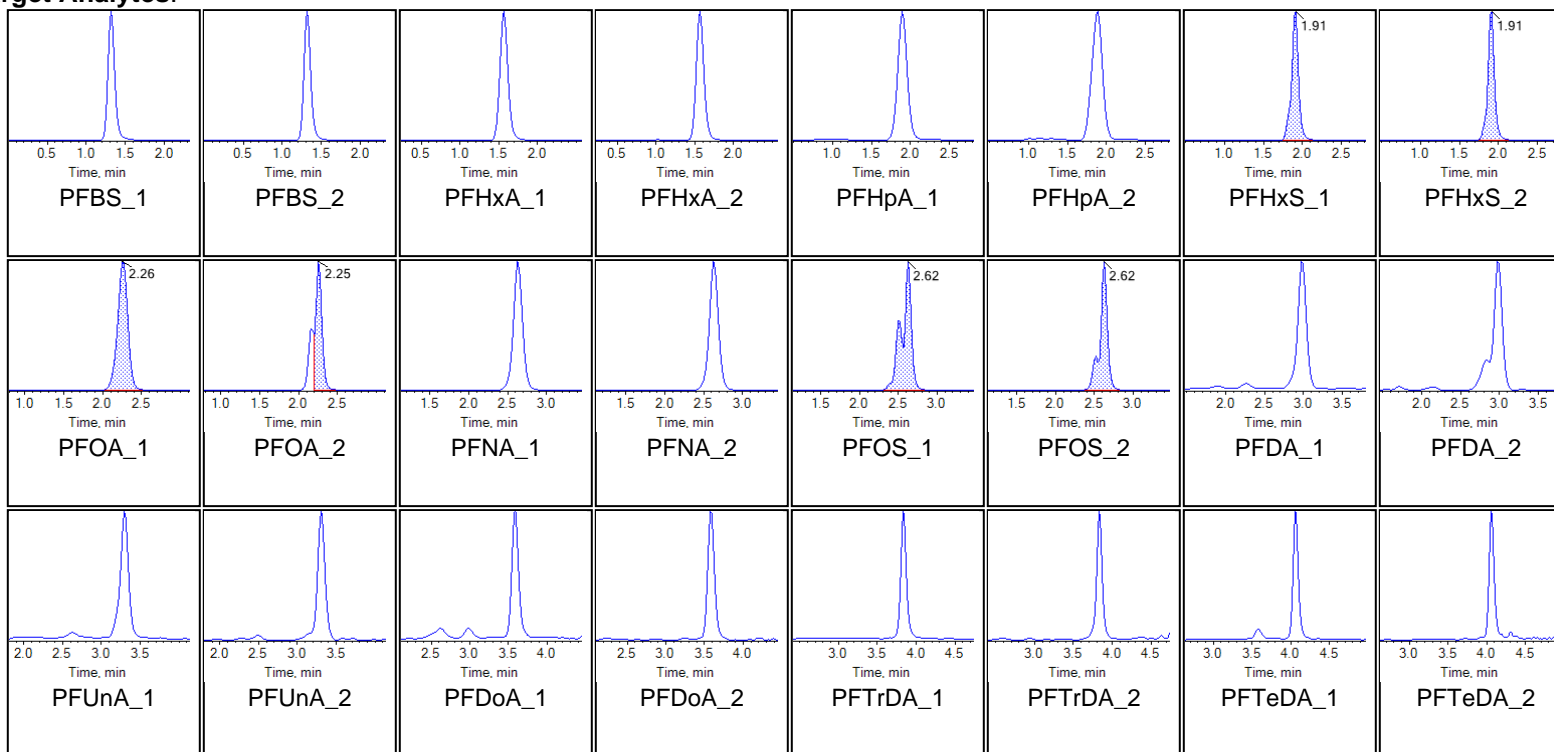
Internal Standards:



Sample Name	G1770MS-FS-D(9)	Injection Vial	14
Sample ID	CBD-AOA-MW08-1020-MS	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	20-1321

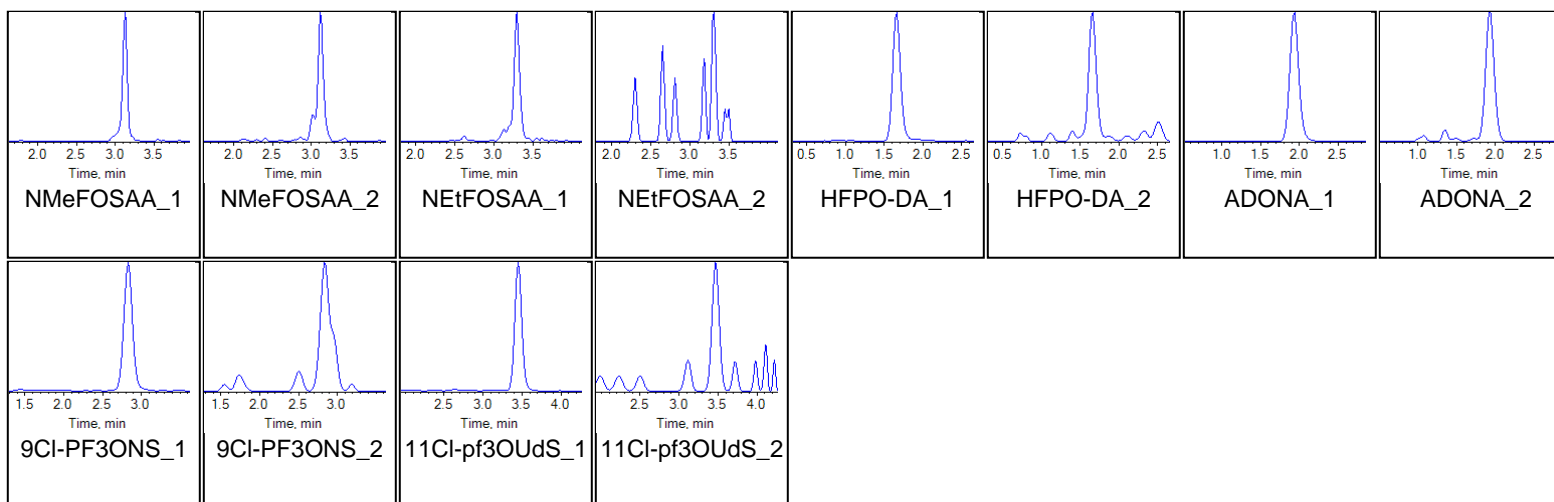
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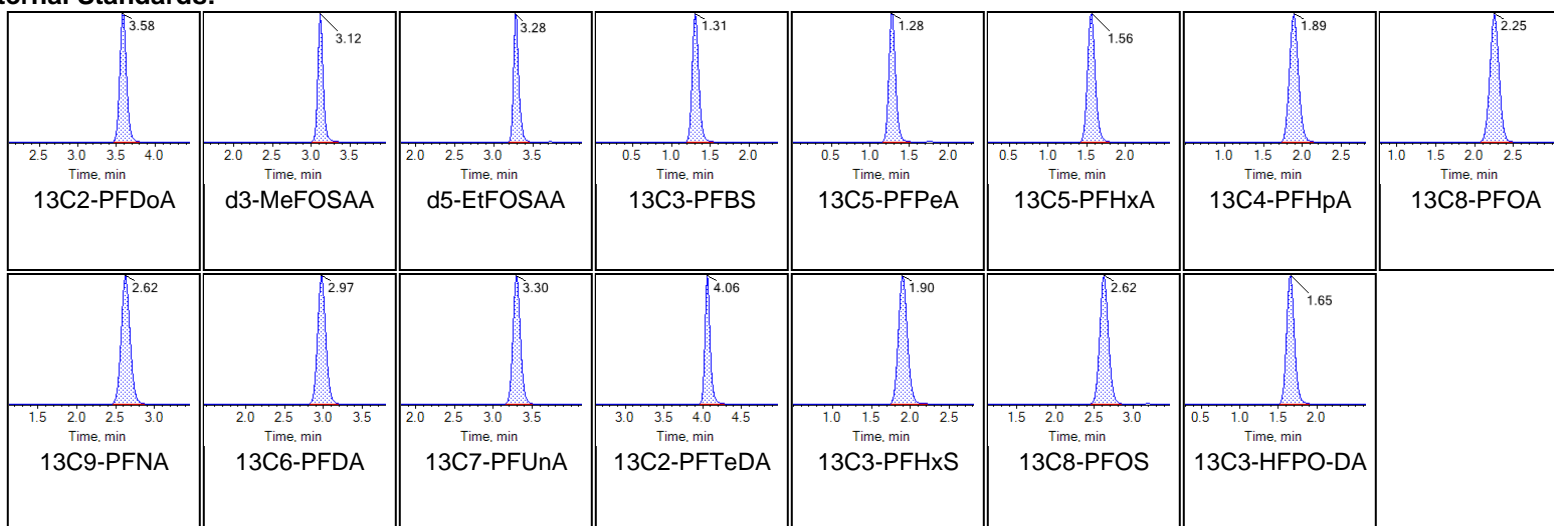




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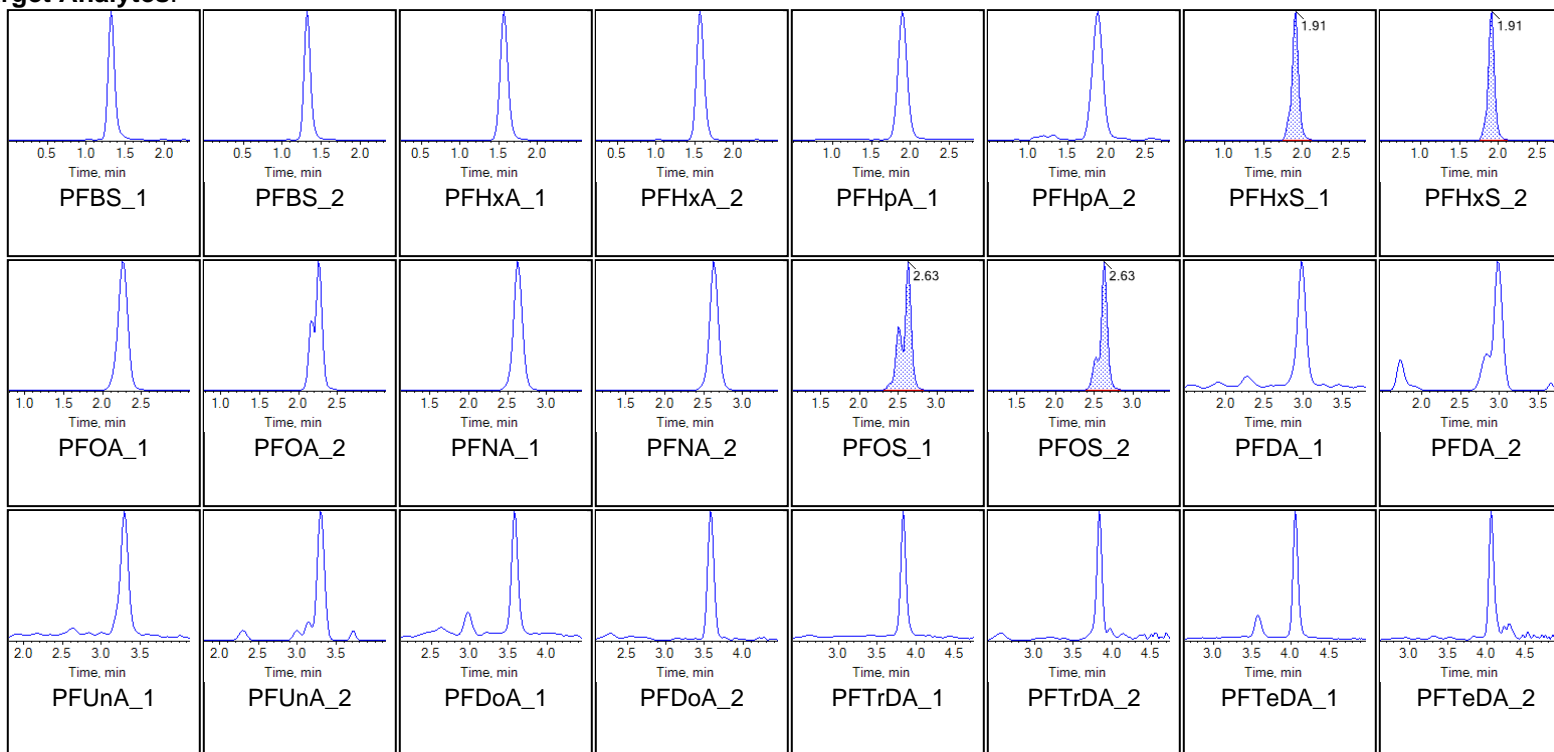
Internal Standards:



Sample Name	G1770MS-FS-D(11)	Injection Vial	15
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:49:03 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

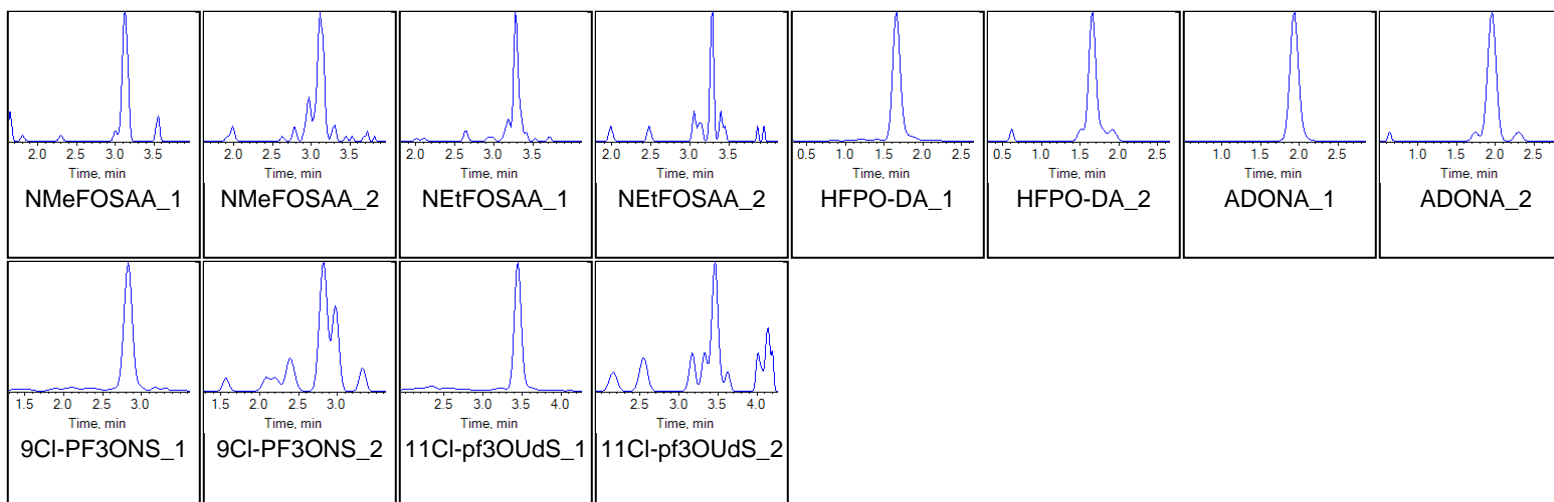
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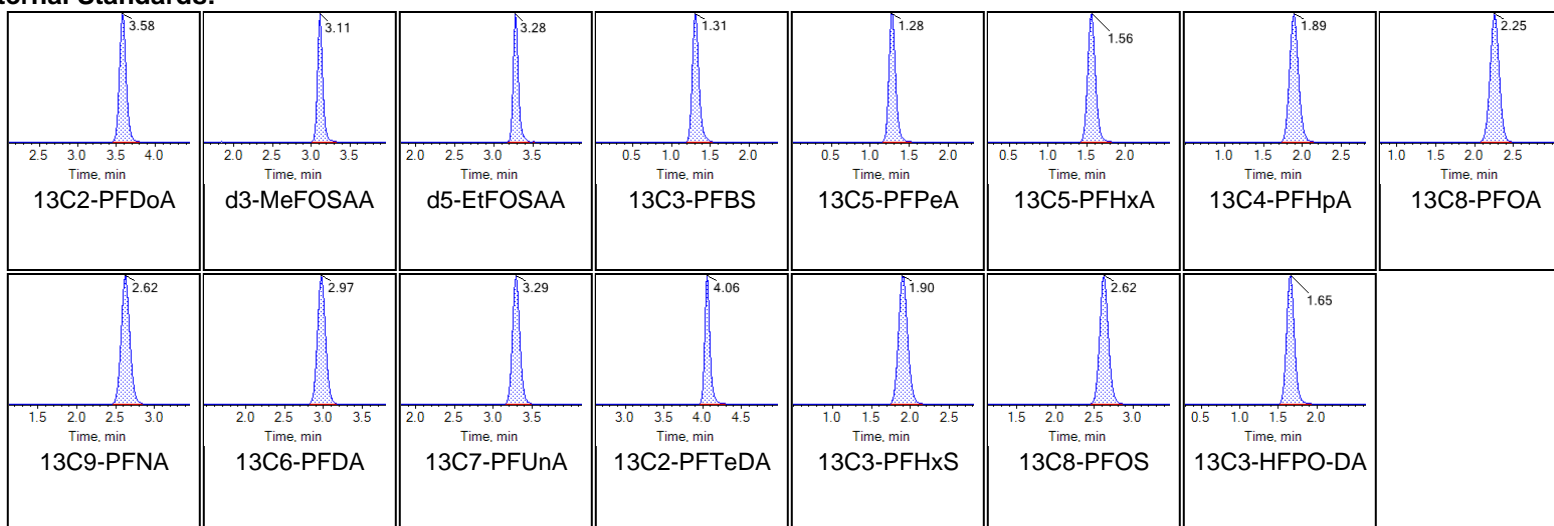




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Internal Standards:





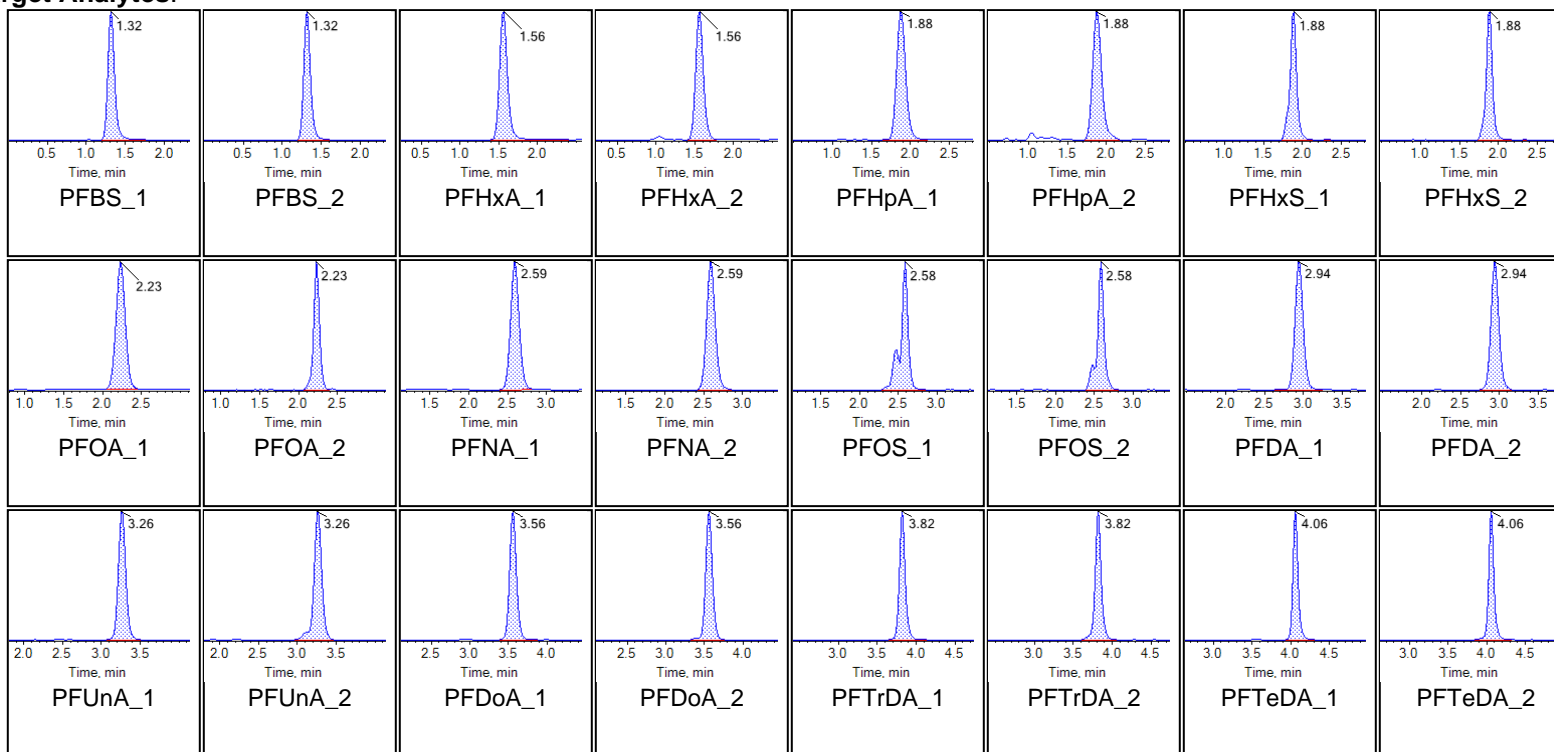
Chromatogram Report

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Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
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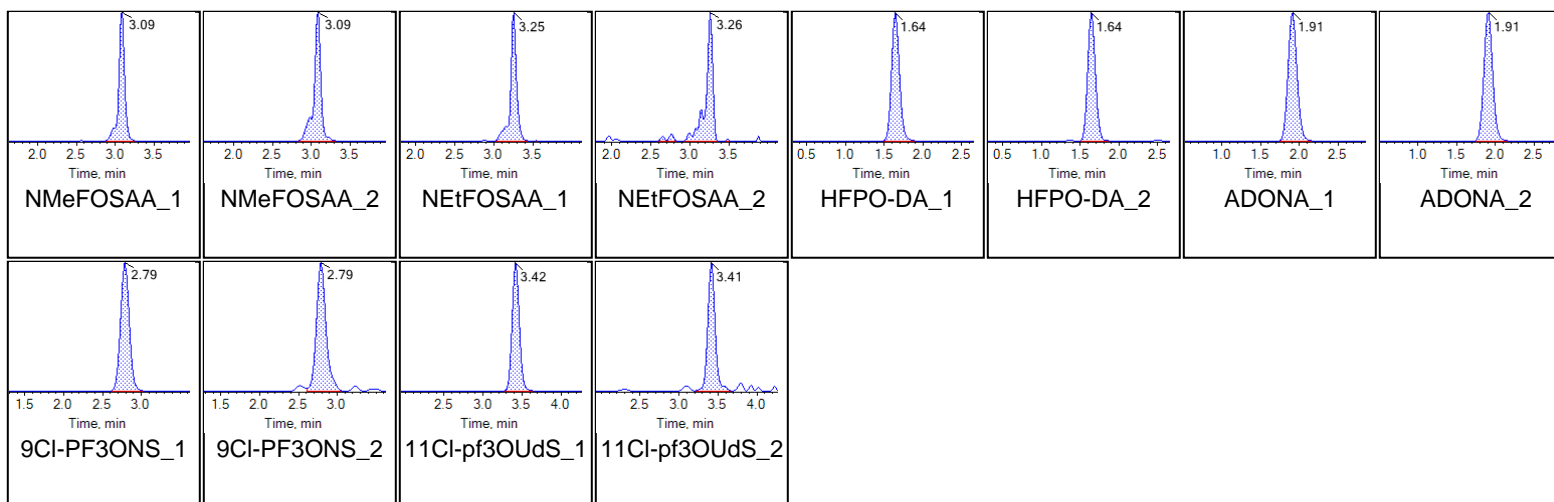
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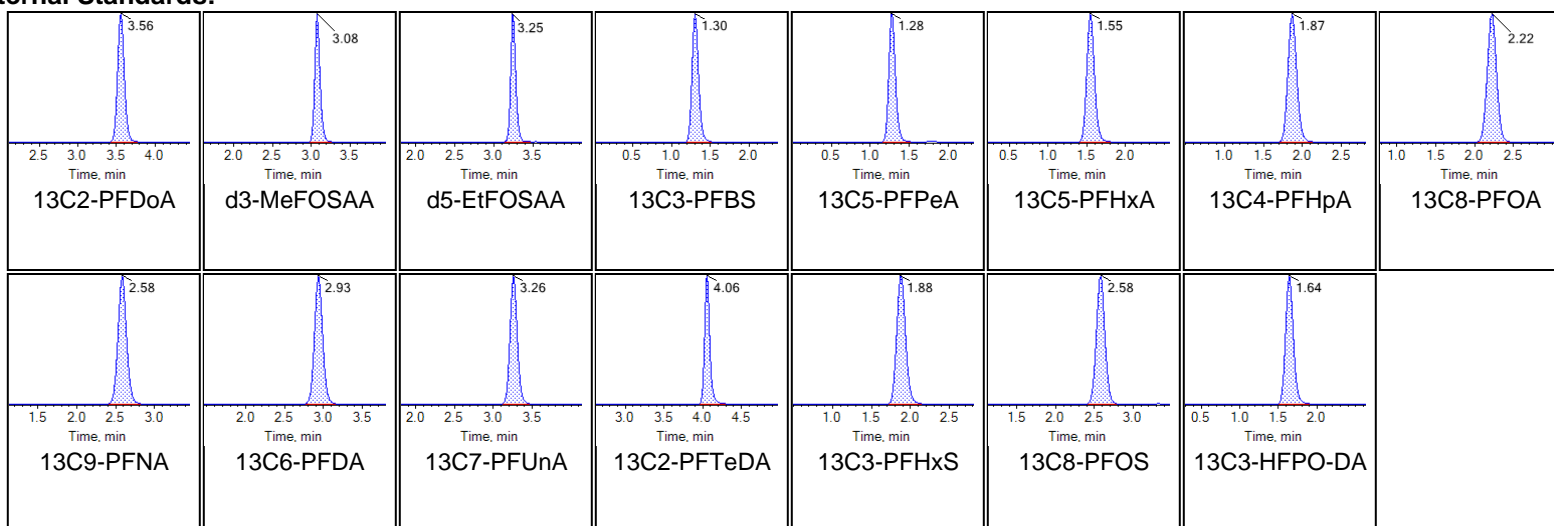




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Internal Standards:





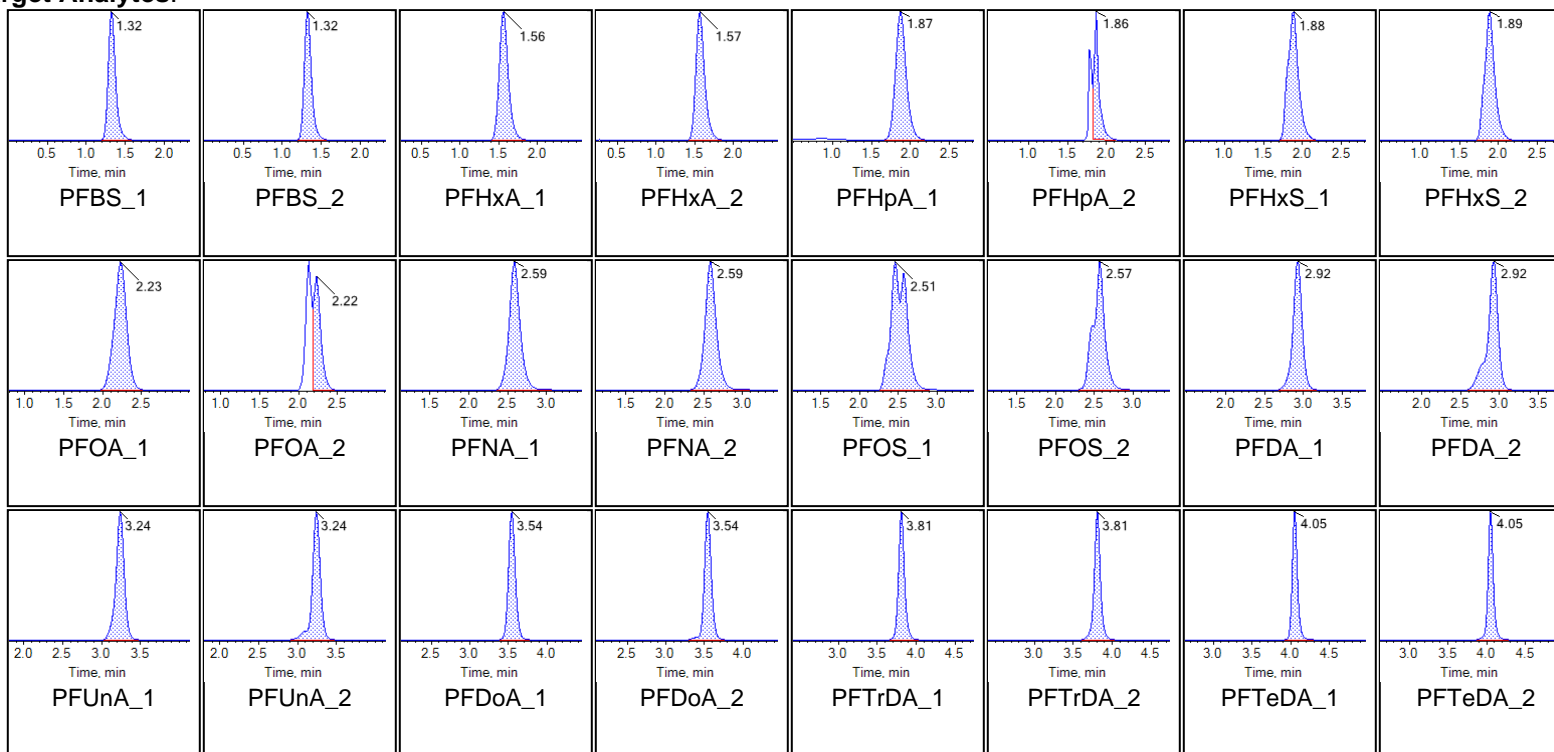
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Sample Name	G1771MSD-FS(0)	Injection Vial	18
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:21:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

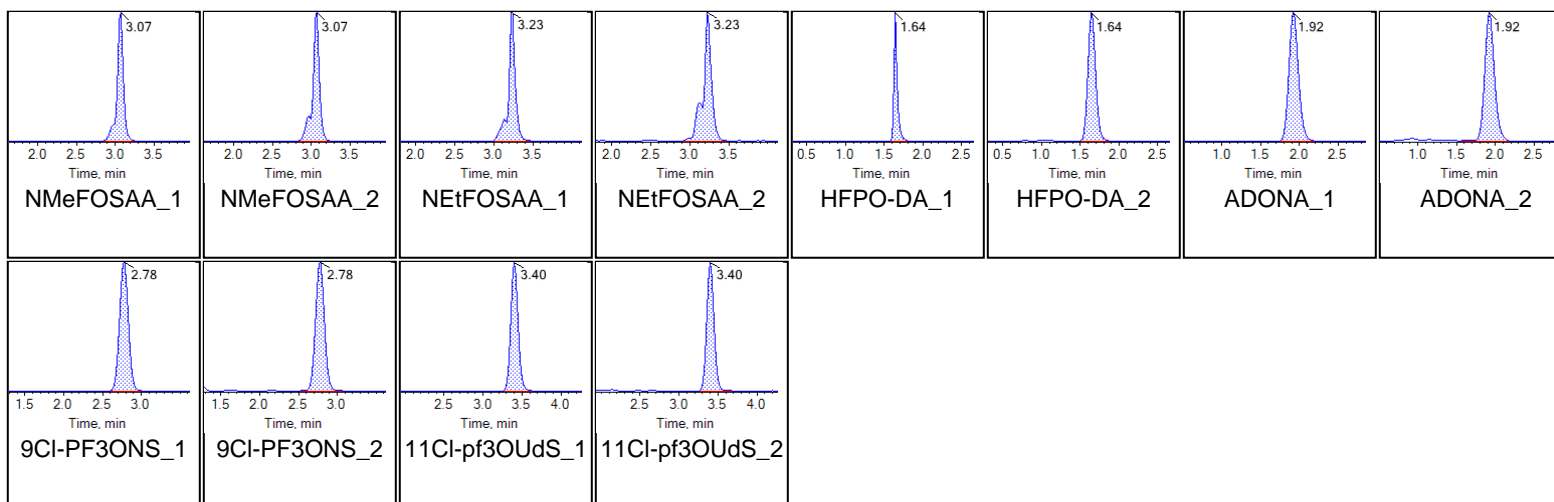
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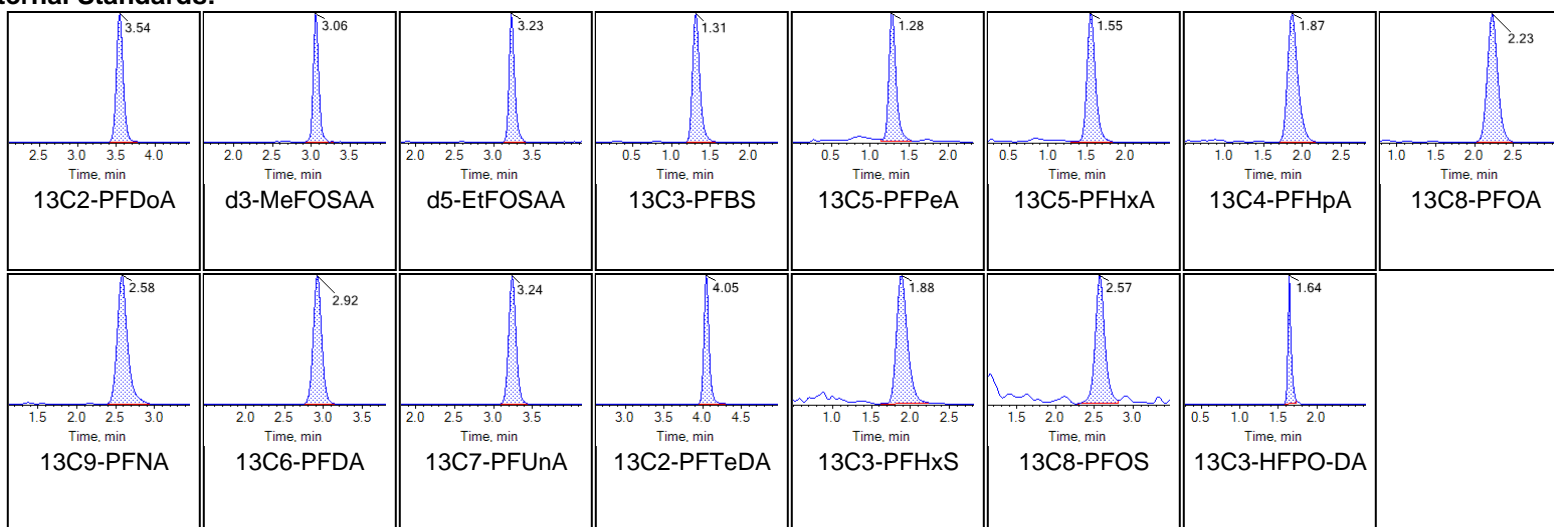




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Internal Standards:





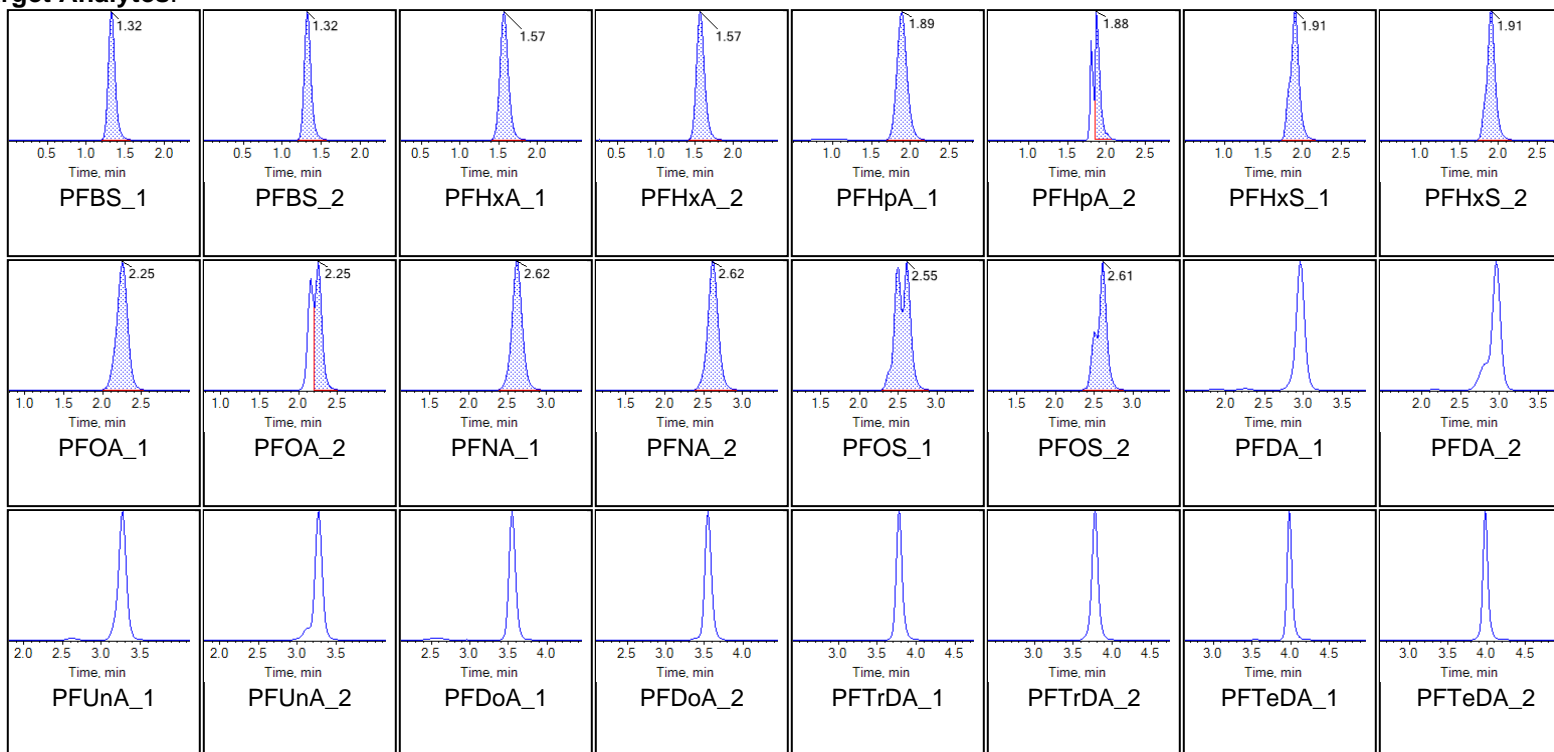
Chromatogram Report

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Sample Name	G1771MSD-FS-D(3)	Injection Vial	19
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:31:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

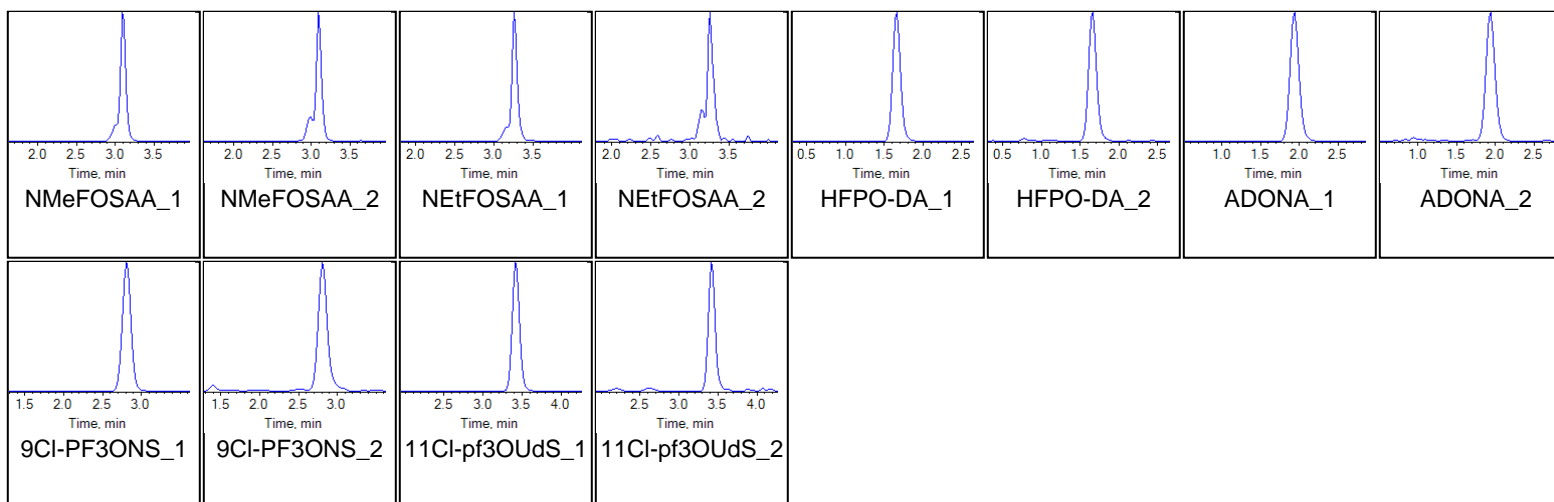
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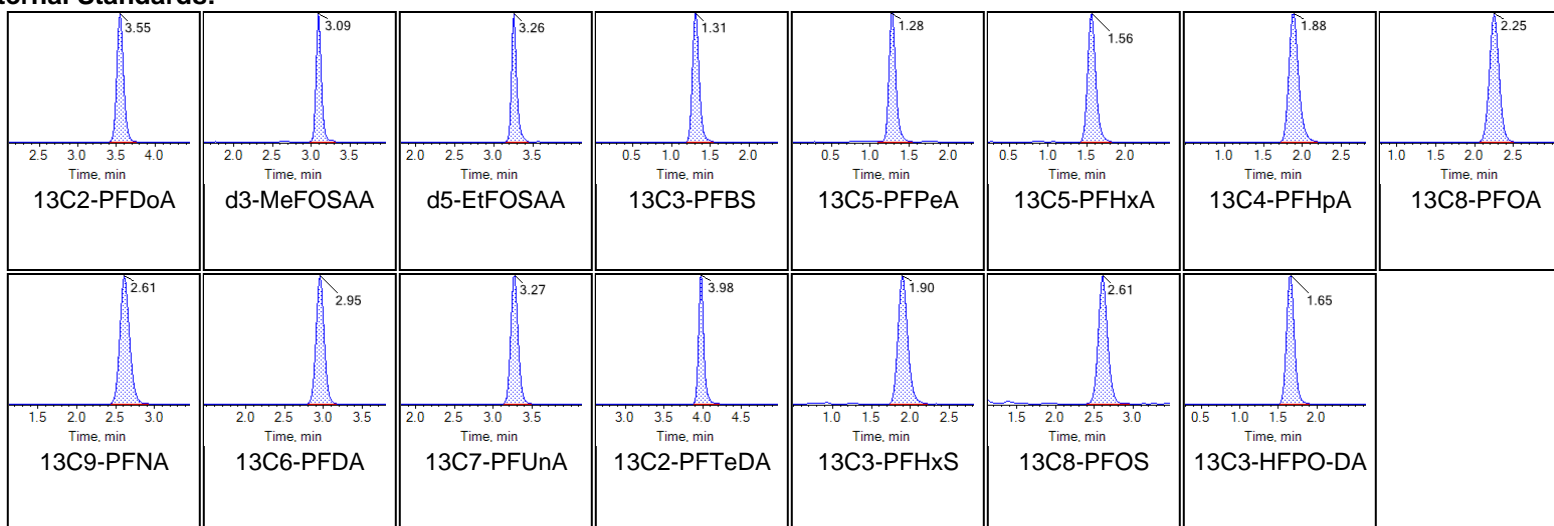




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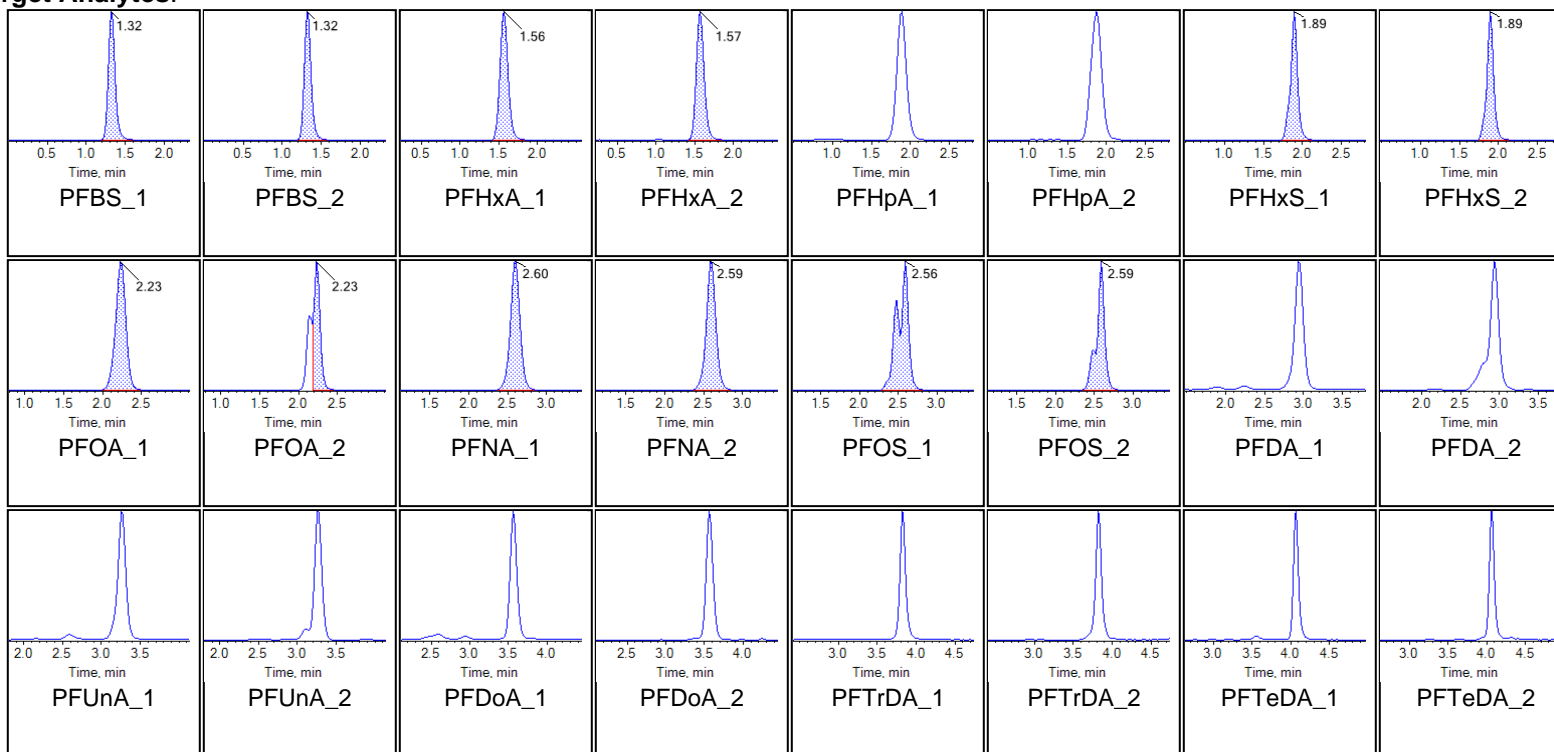
Internal Standards:



Sample Name	G1771MSD-FS-D(7)	Injection Vial	21
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:52:40 AM	Data File	AE_11112020_5-369.wiff
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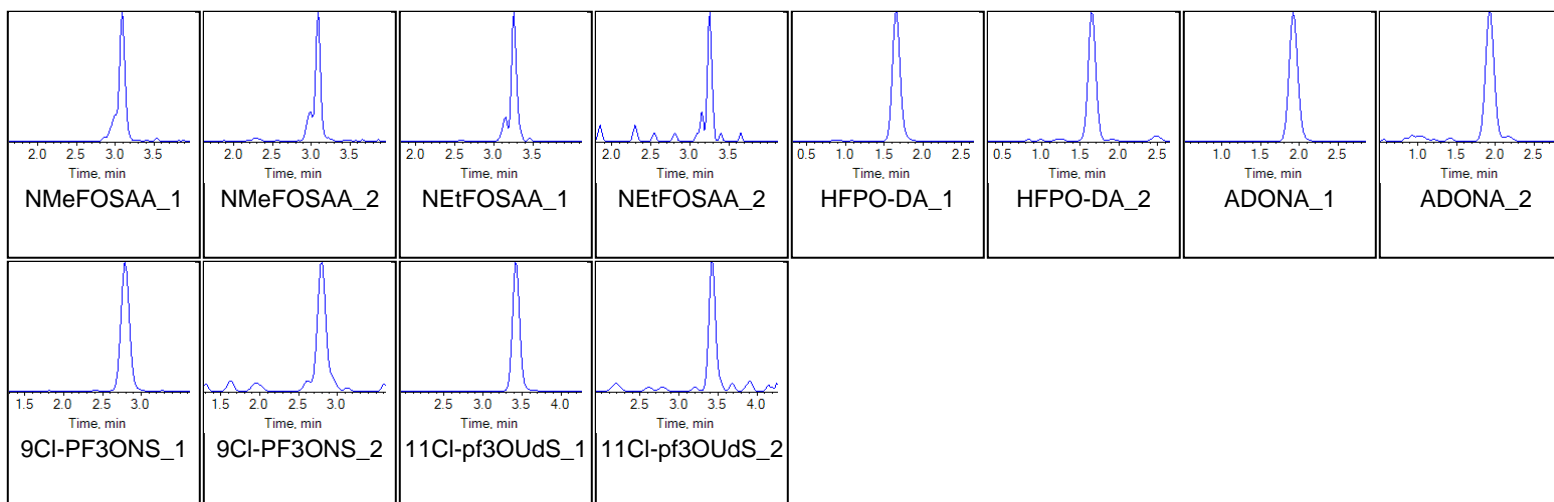
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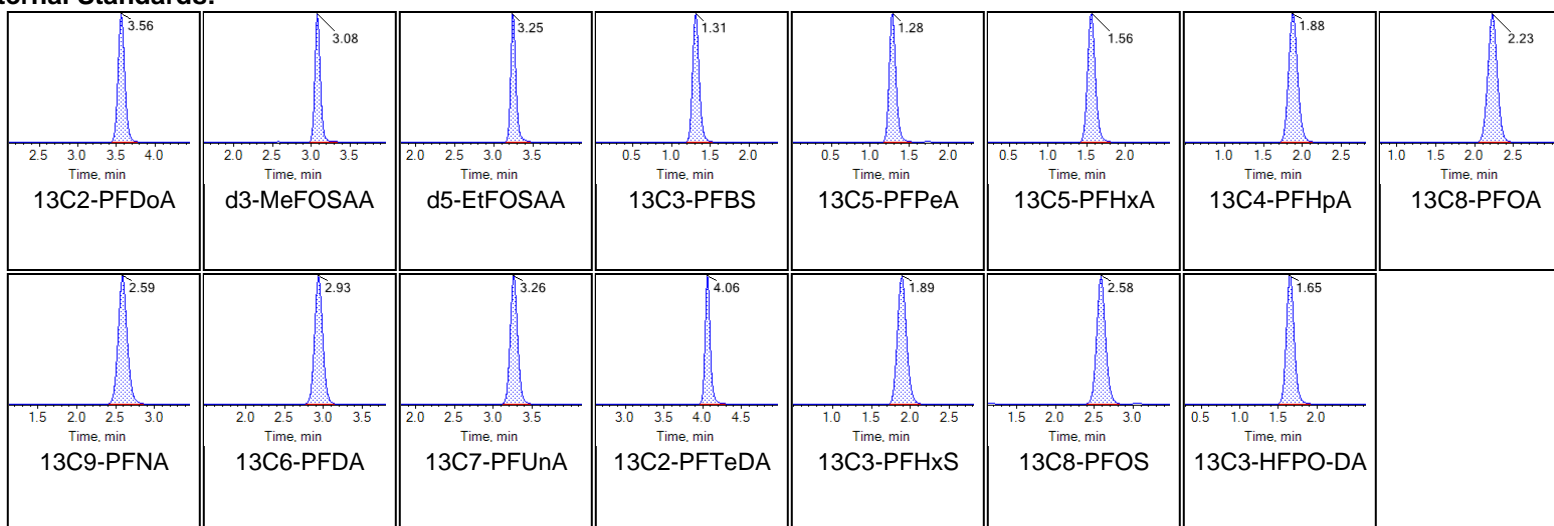




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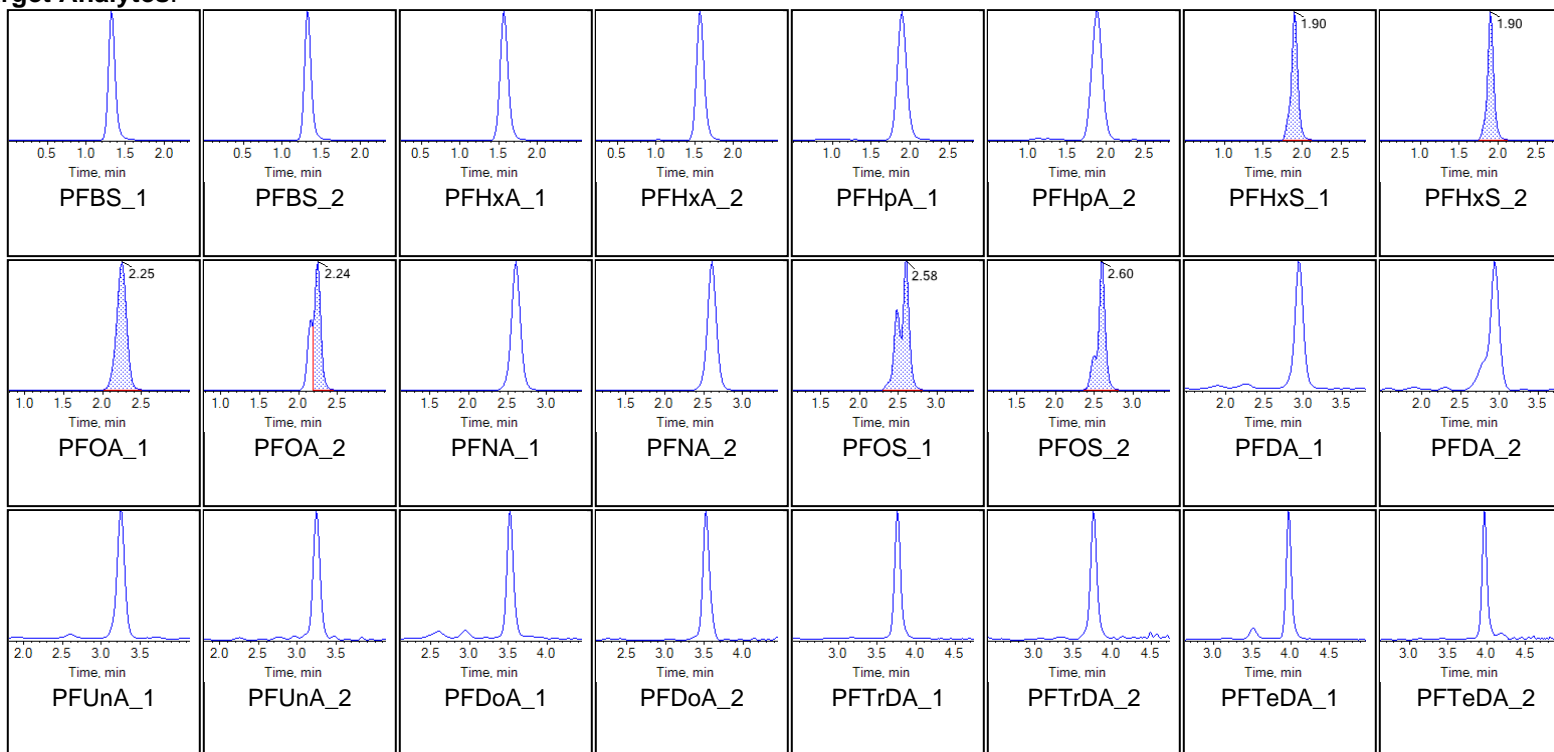
Internal Standards:



Sample Name	G1771MSD-FS-D(9)	Injection Vial	22
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:03:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

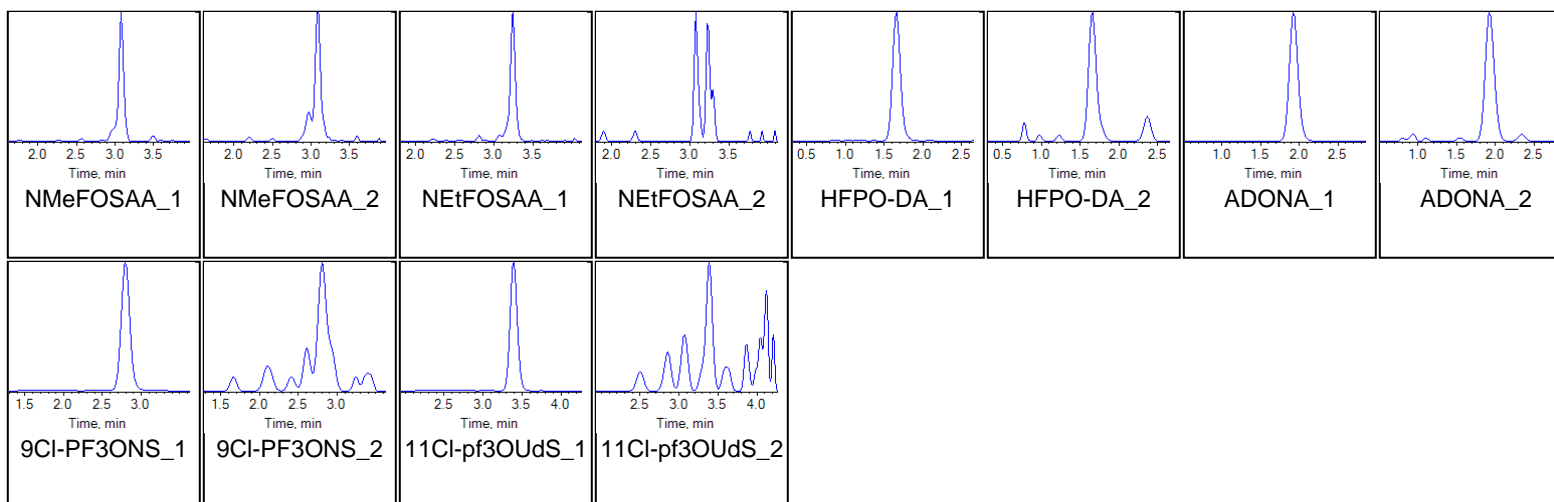
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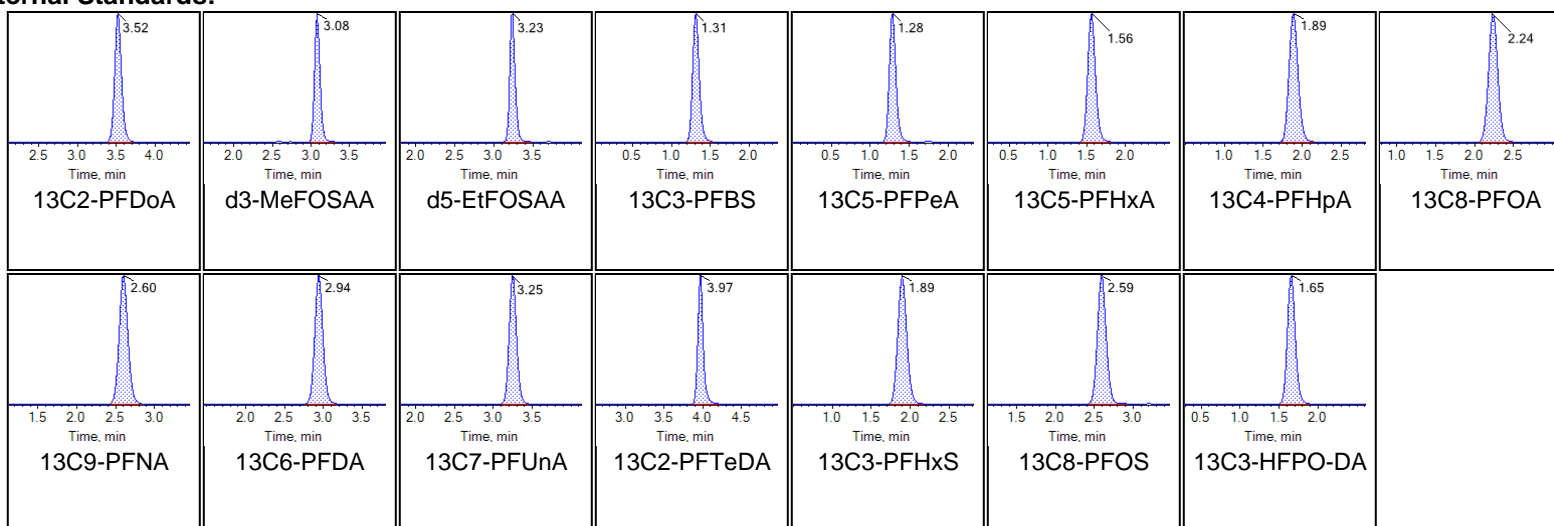




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Internal Standards:





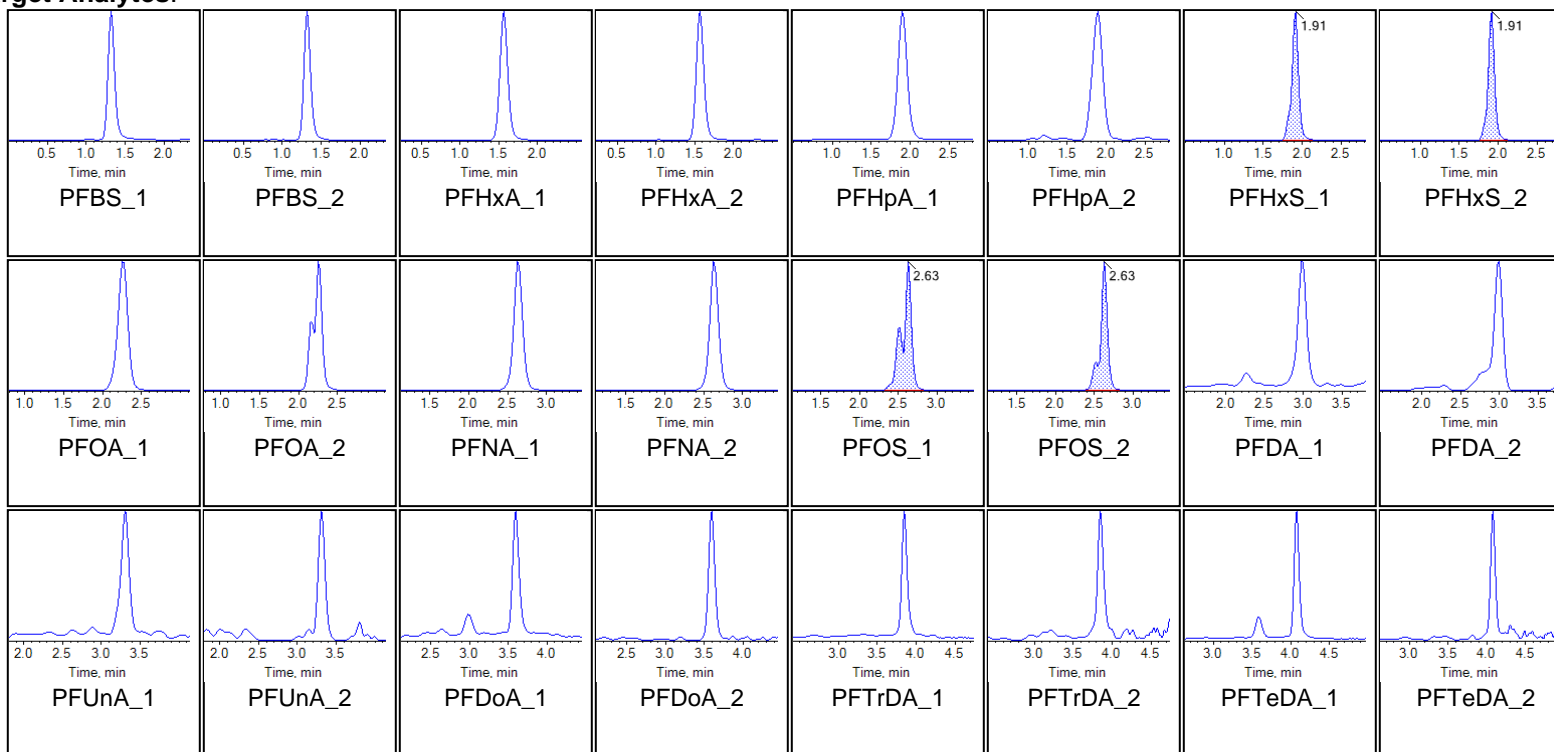
Chromatogram Report

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Sample Name	G1771MSD-FS-D(11)	Injection Vial	23
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:13:41 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

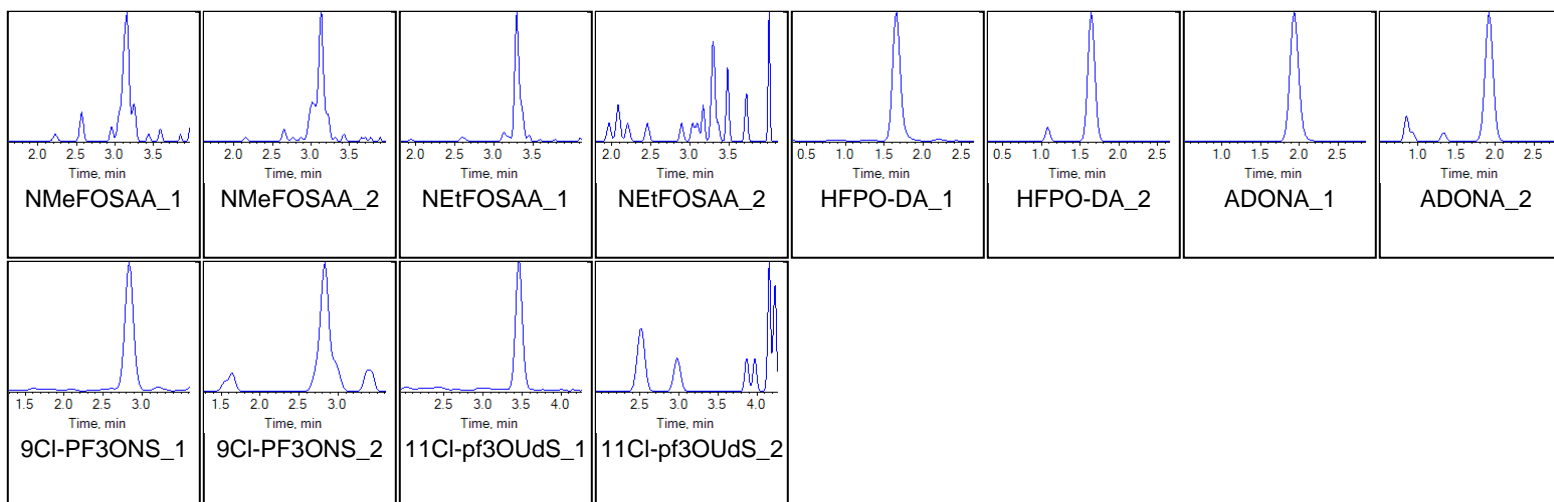
Chromatograms

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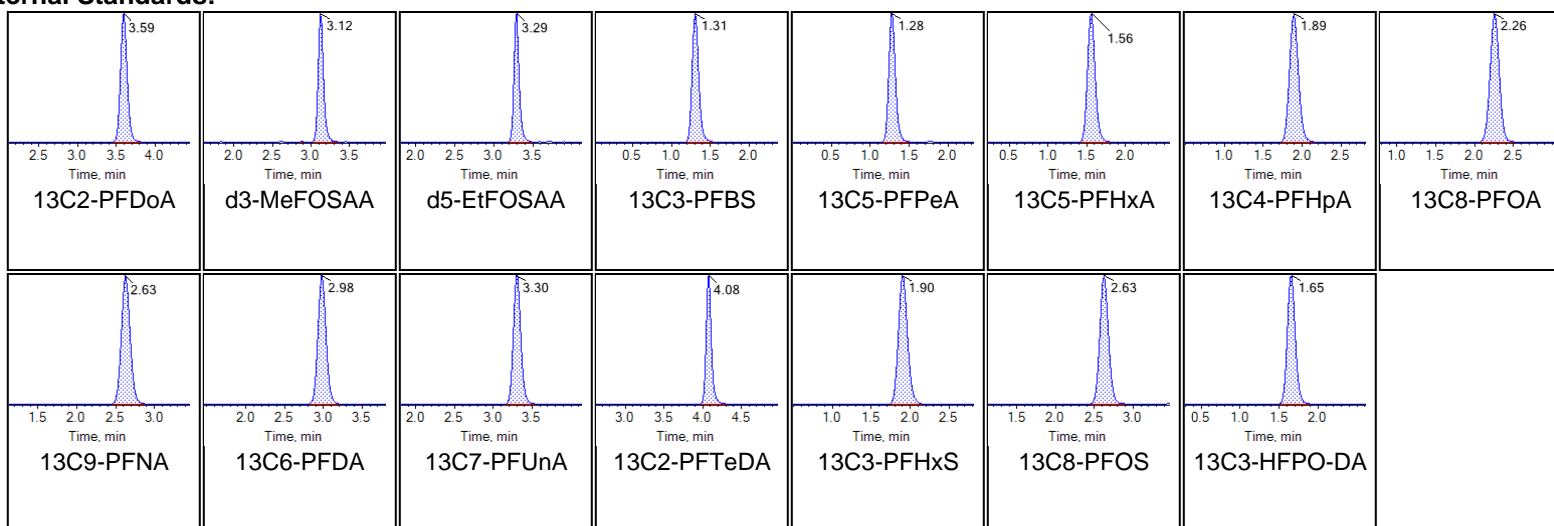




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Internal Standards:





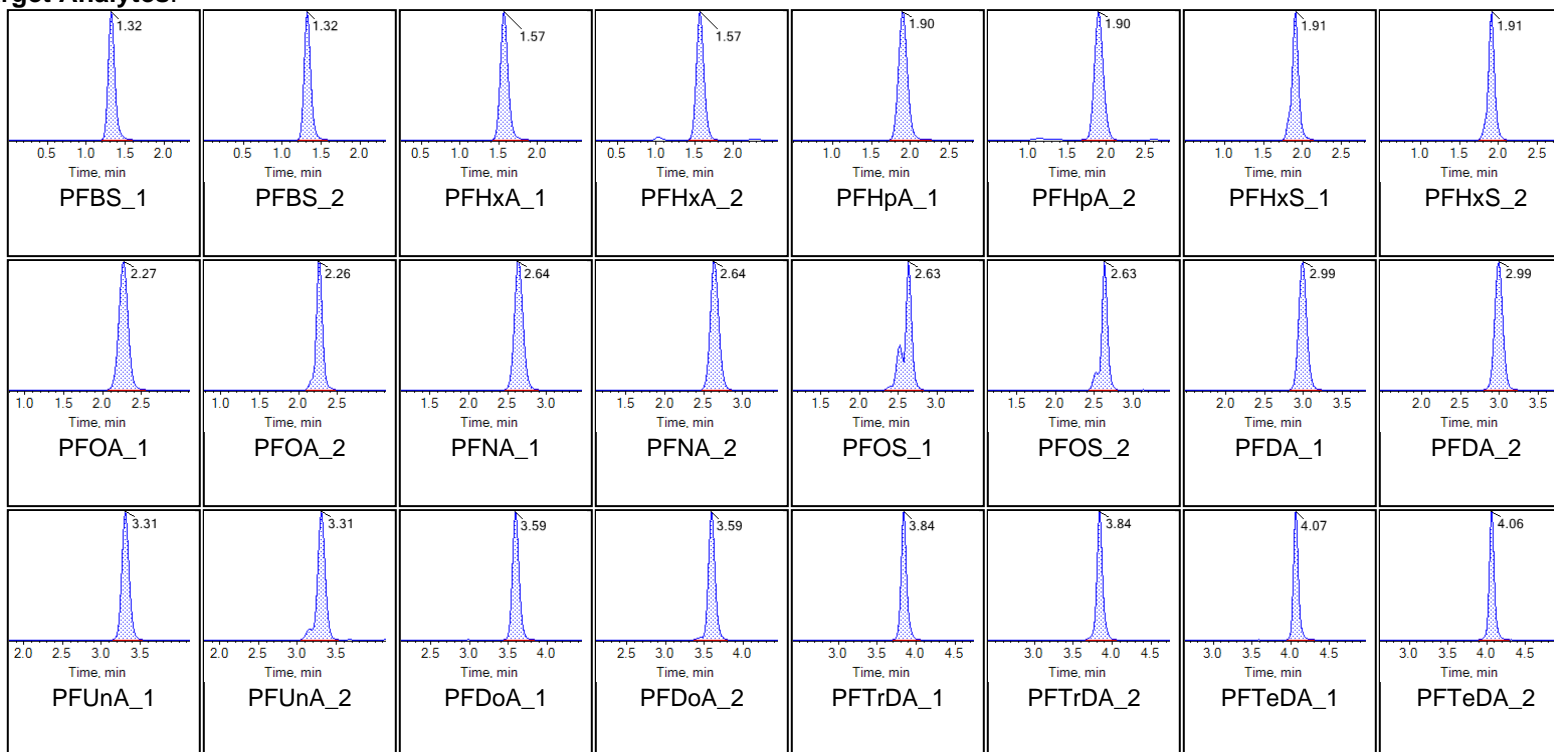
Chromatogram Report

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Sample Name	LE77 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:34:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

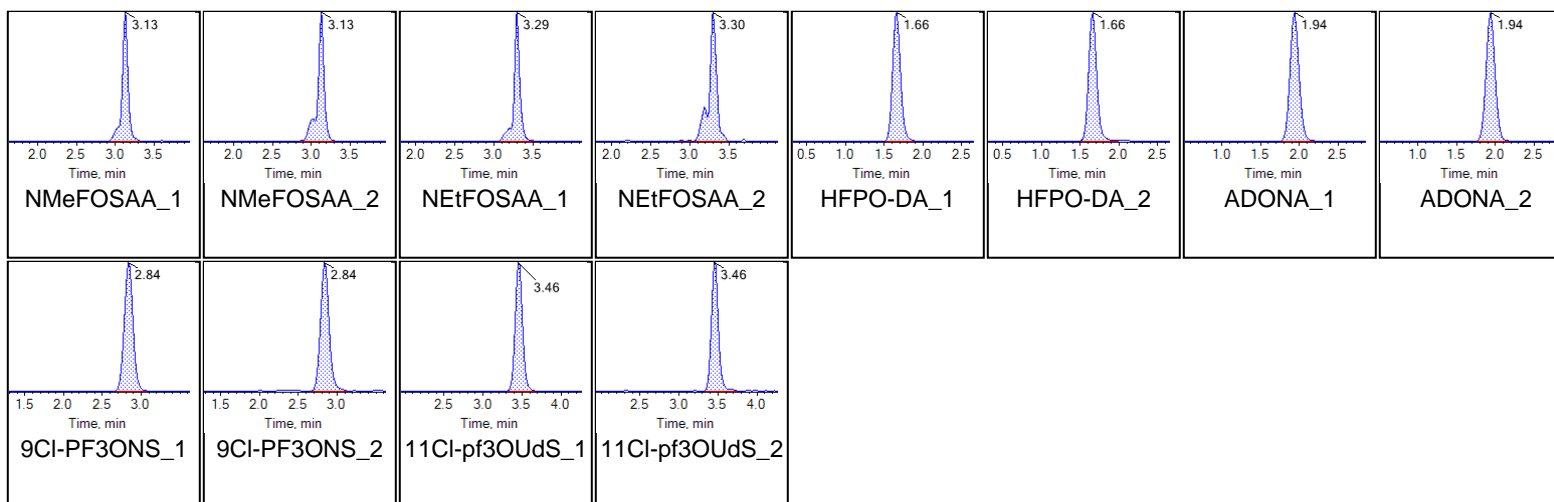
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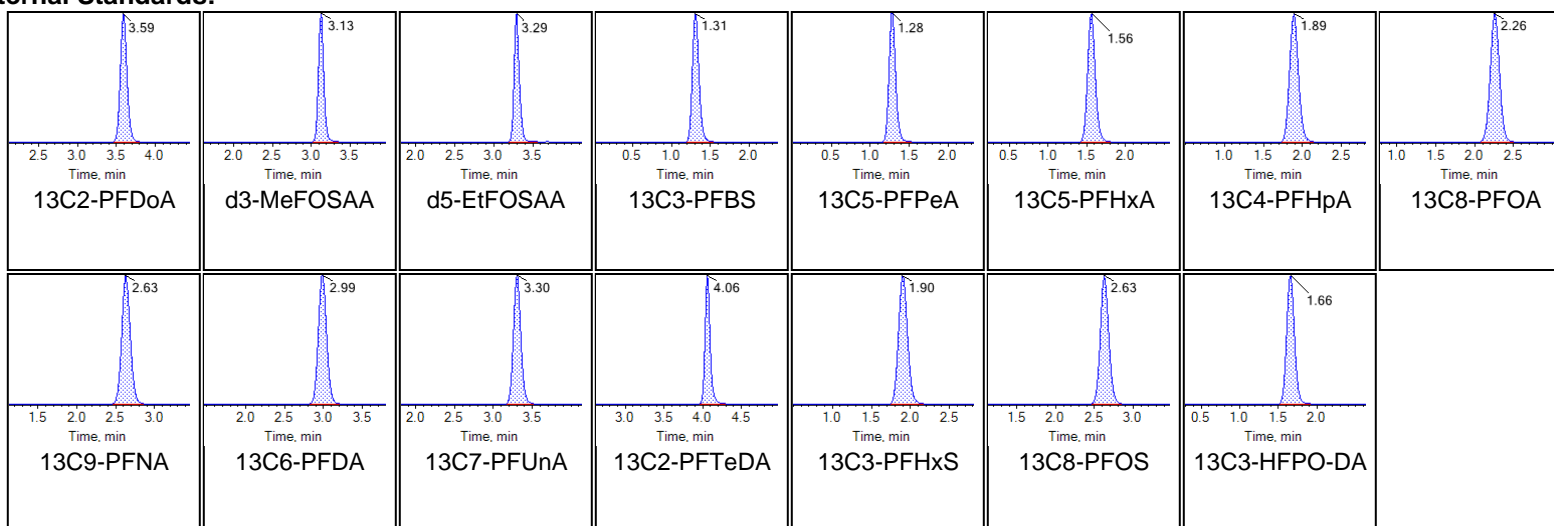




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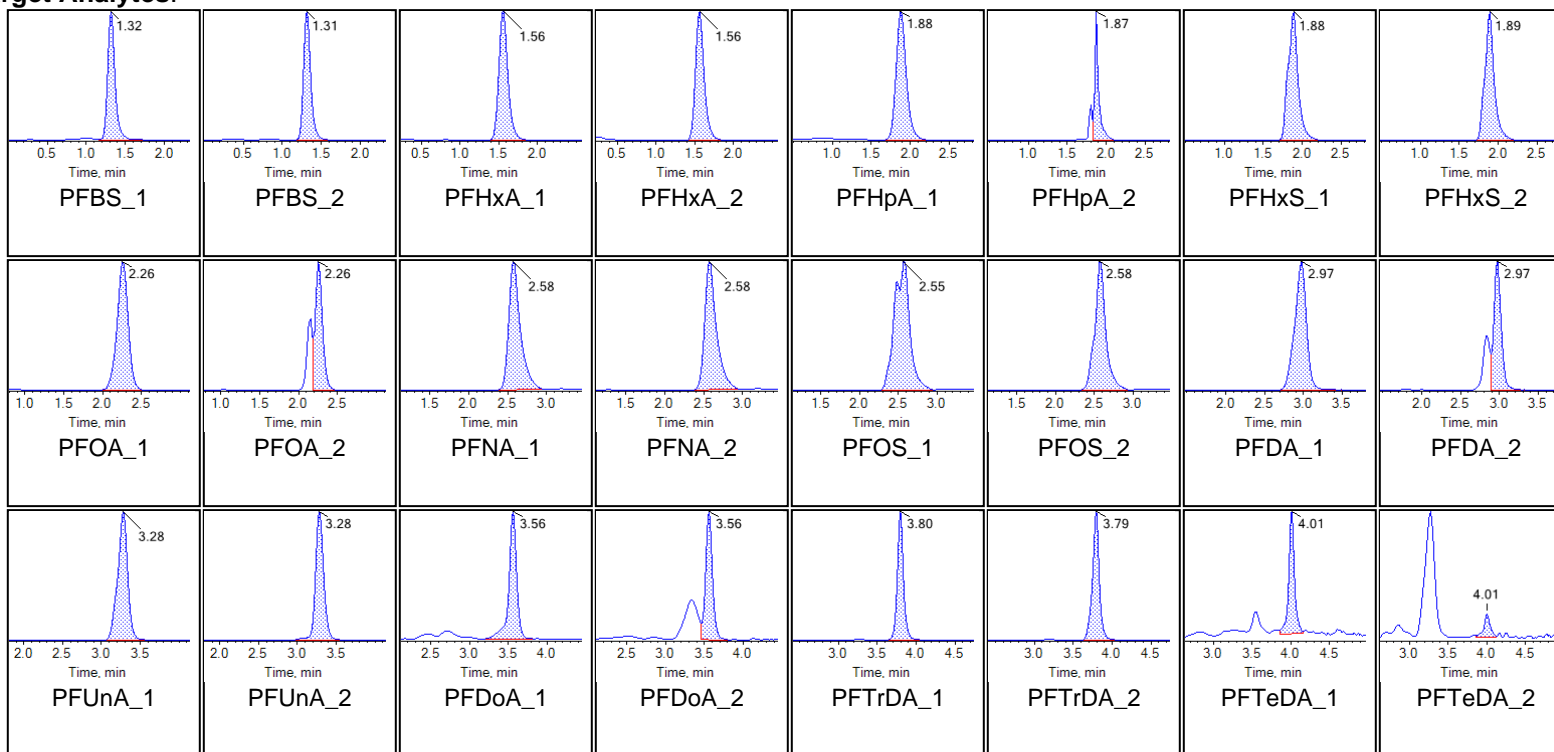
Internal Standards:



Sample Name	G1772-FS(0)	Injection Vial	26
Sample ID	CBD-AOA-MW02-1020	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	20-1321

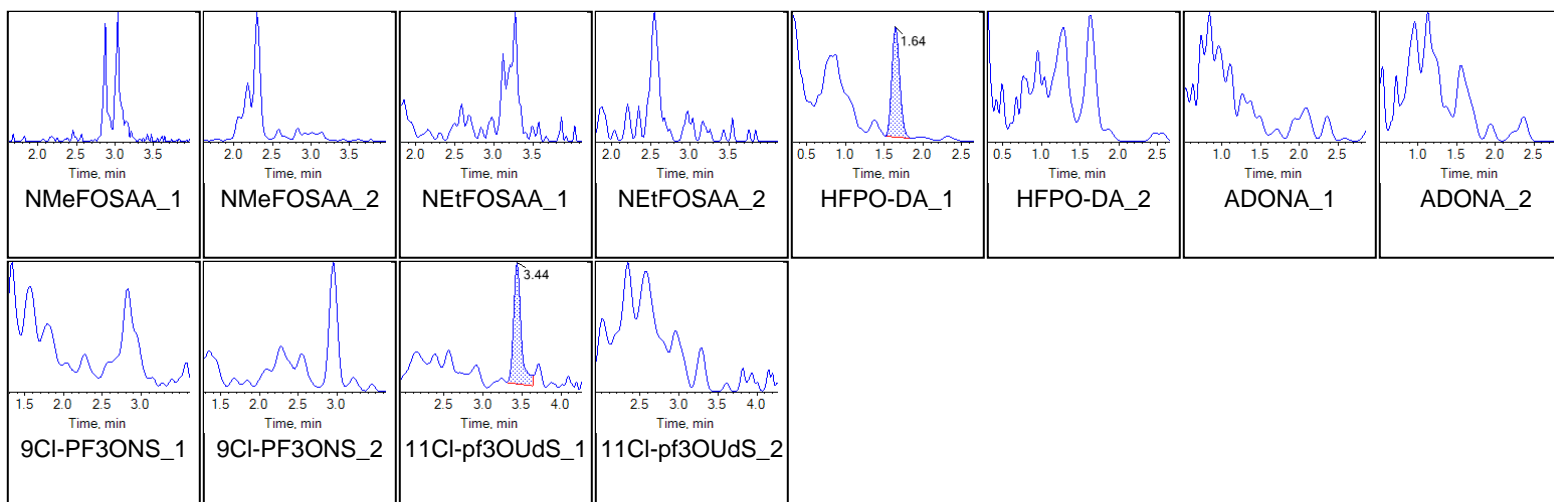
Chromatograms

Target Analytes:

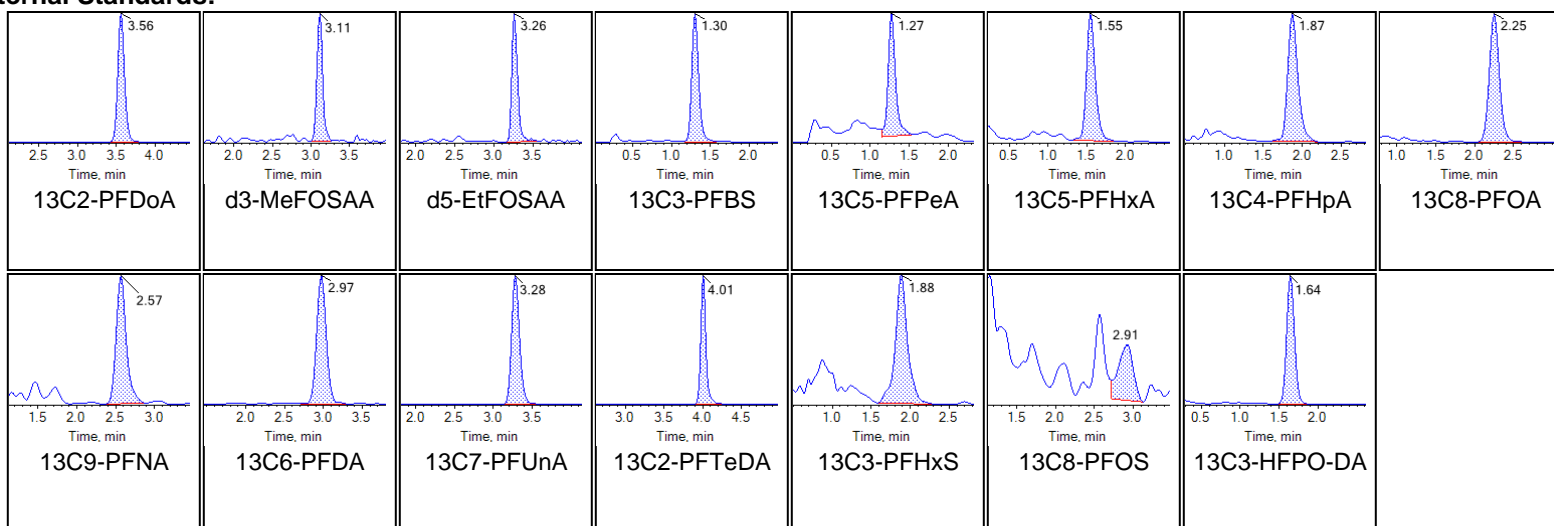




Chromatogram Report

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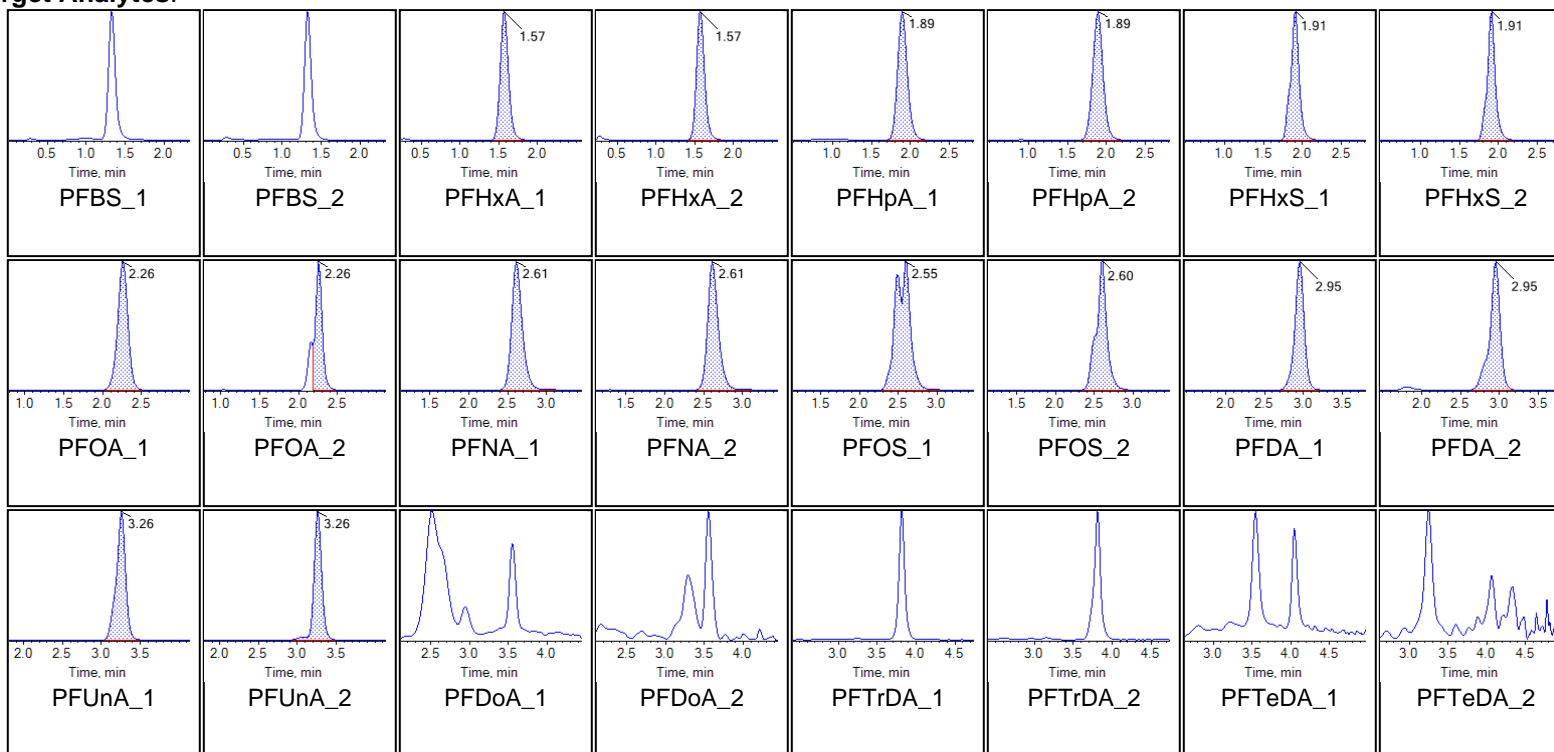
Internal Standards:



Sample Name	G1772-FS-D(3)	Injection Vial	27
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:55:37 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

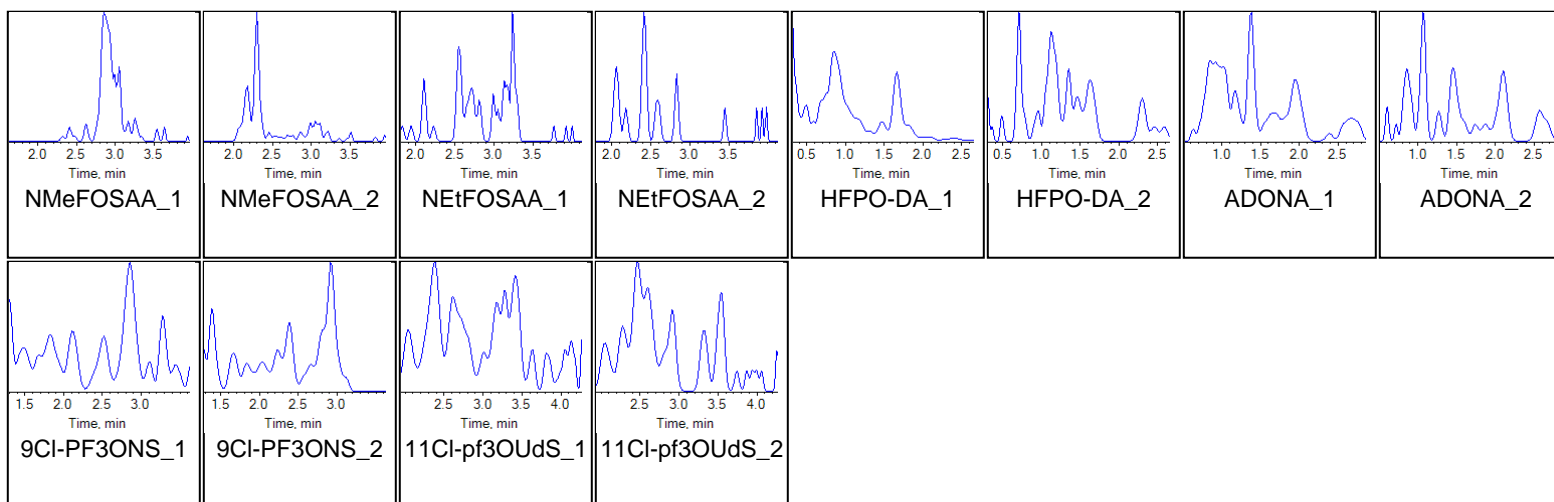
Chromatograms

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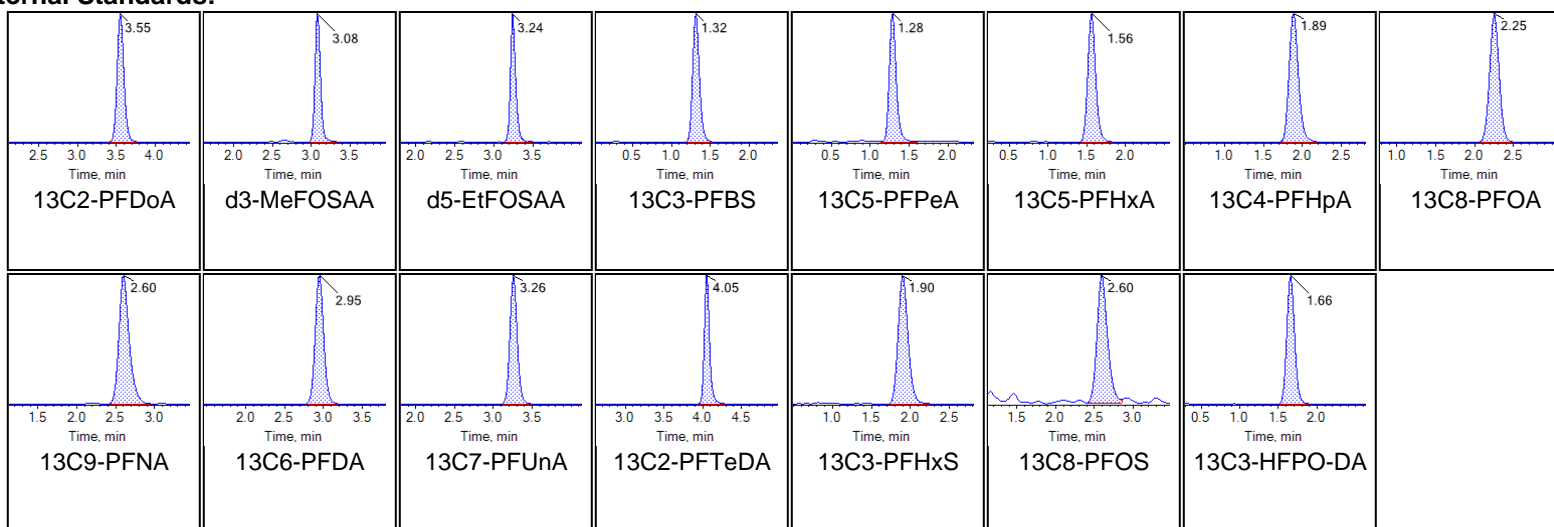




Chromatogram Report

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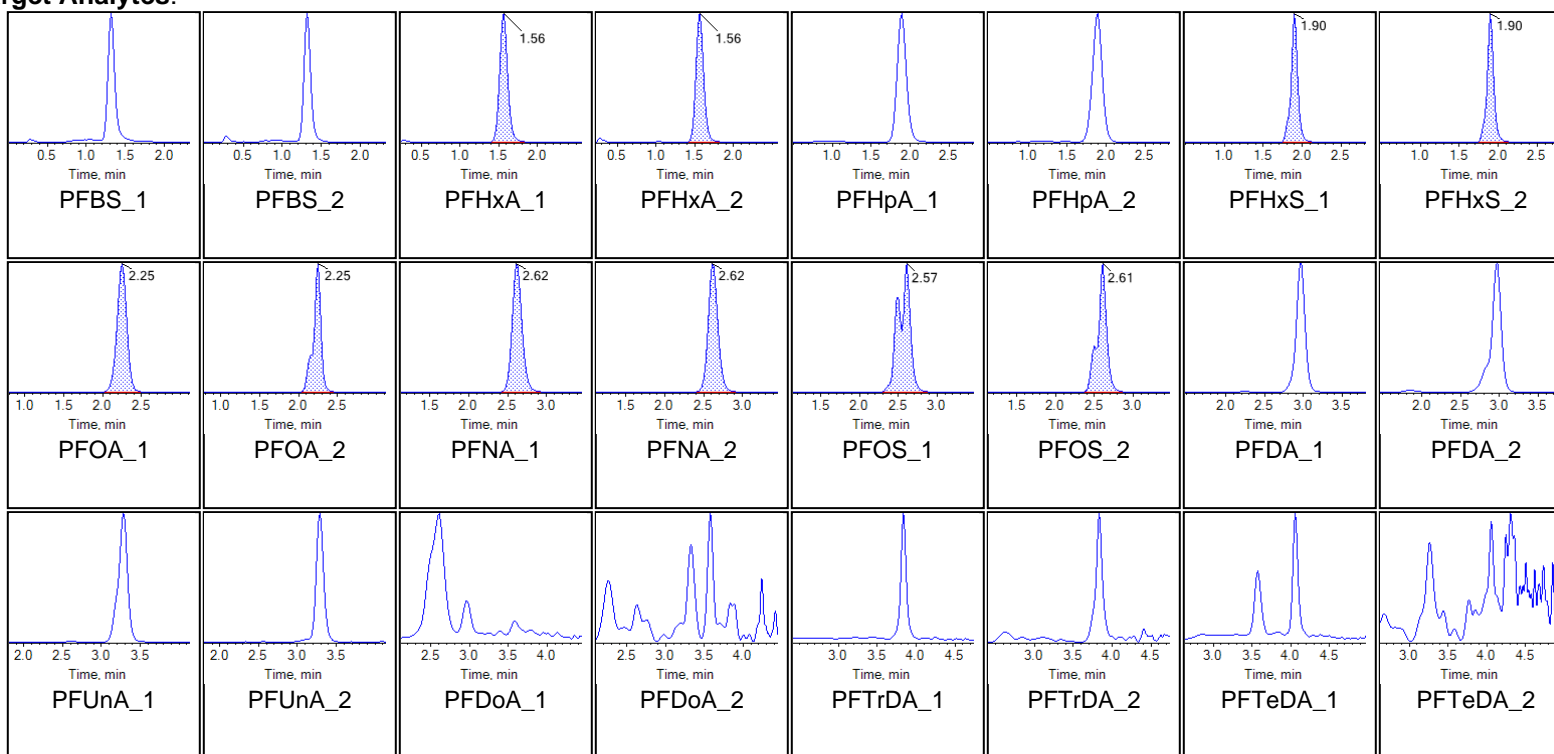
Internal Standards:



Sample Name	G1772-FS-D(7)	Injection Vial	29
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:16:35 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

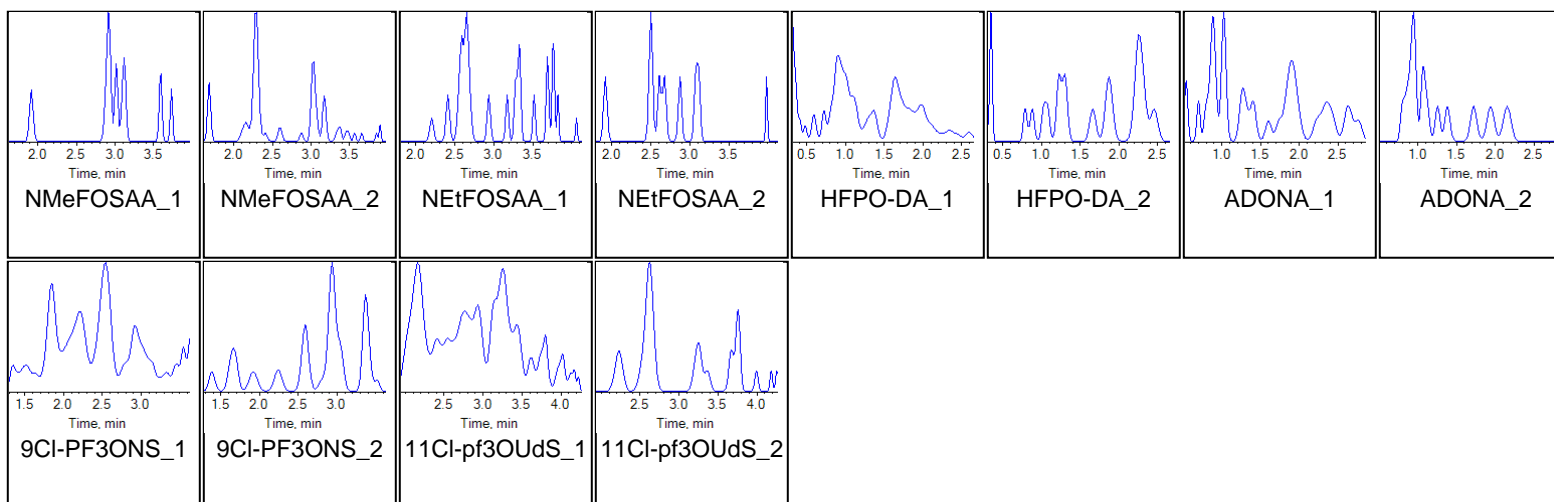
Chromatograms

Target Analytes:

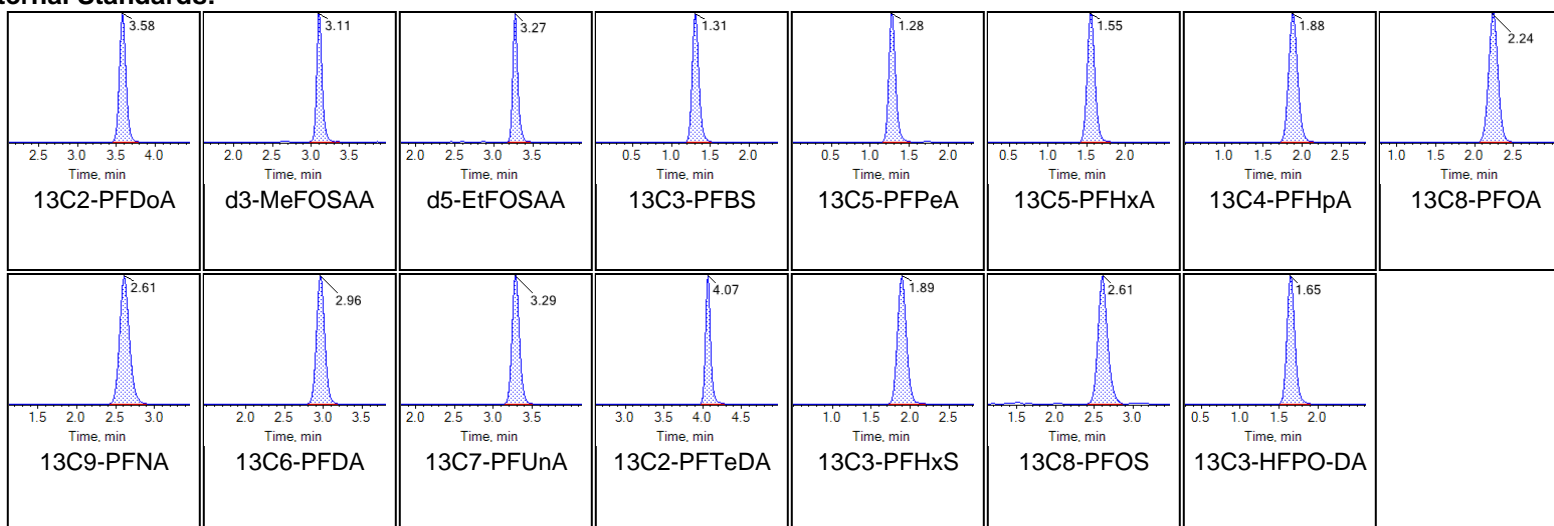




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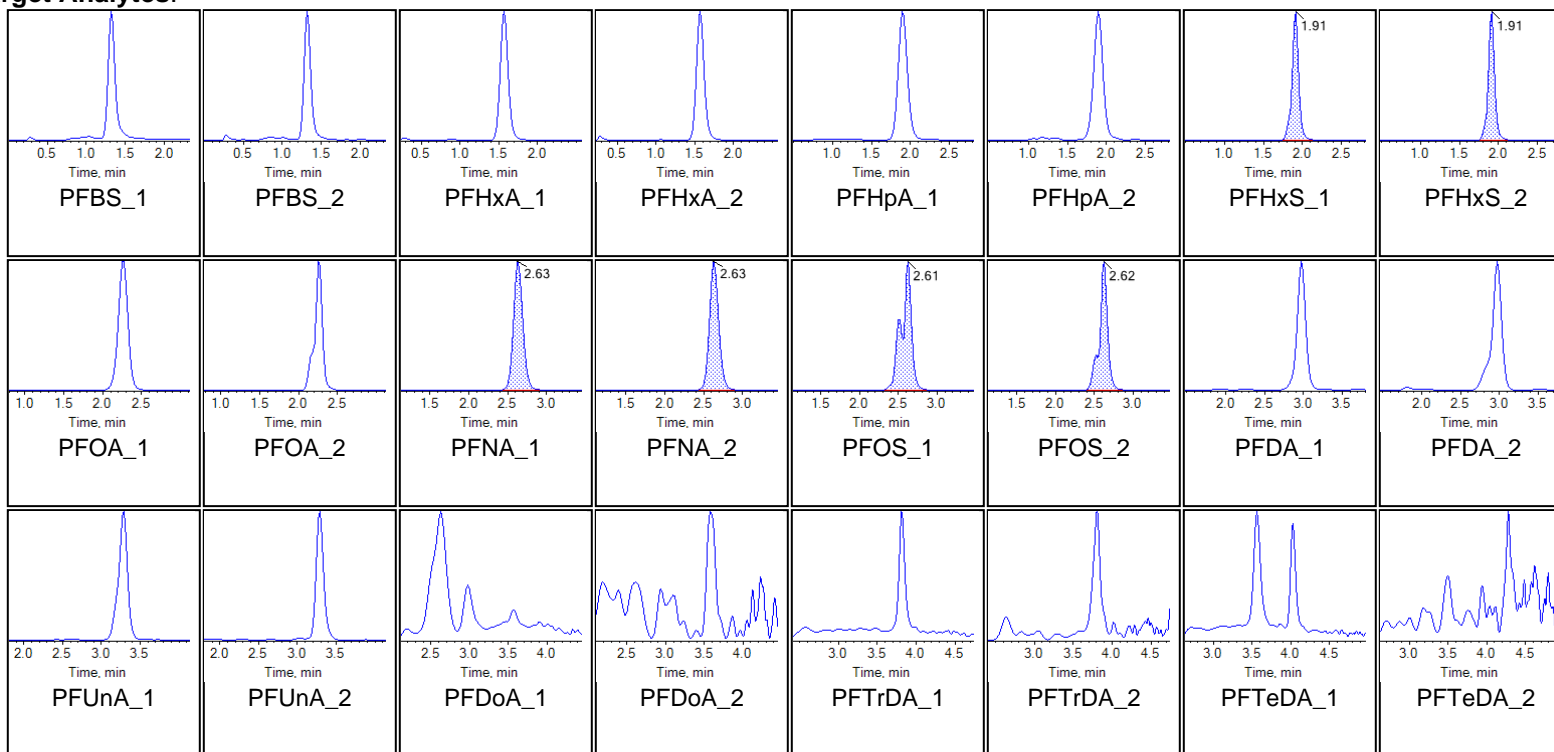
Internal Standards:



Sample Name	G1772-FS-D(9)	Injection Vial	30
Sample ID	CBD-AOA-MW02-1020	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	20-1321

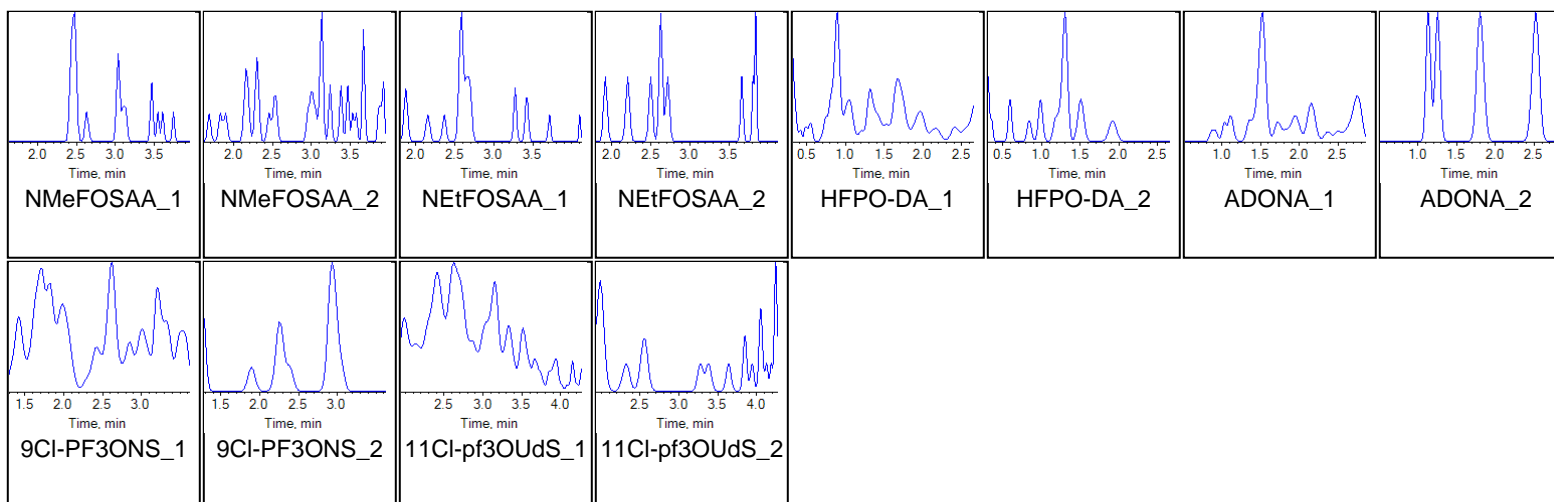
Chromatograms

Target Analytes:

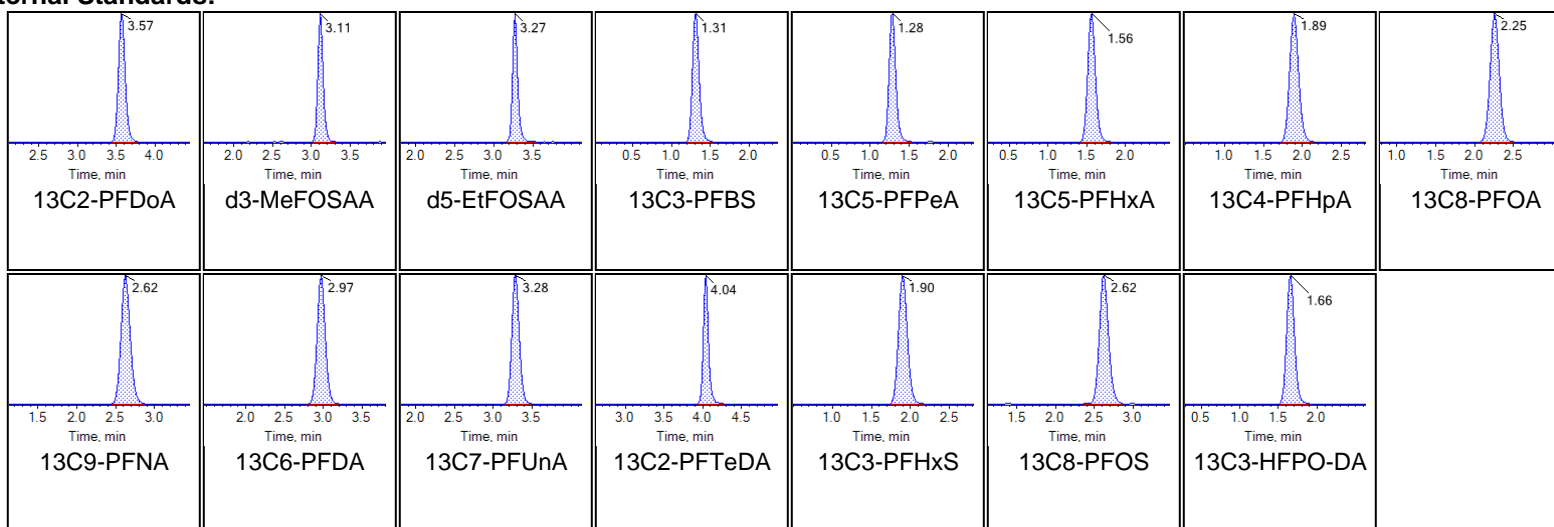




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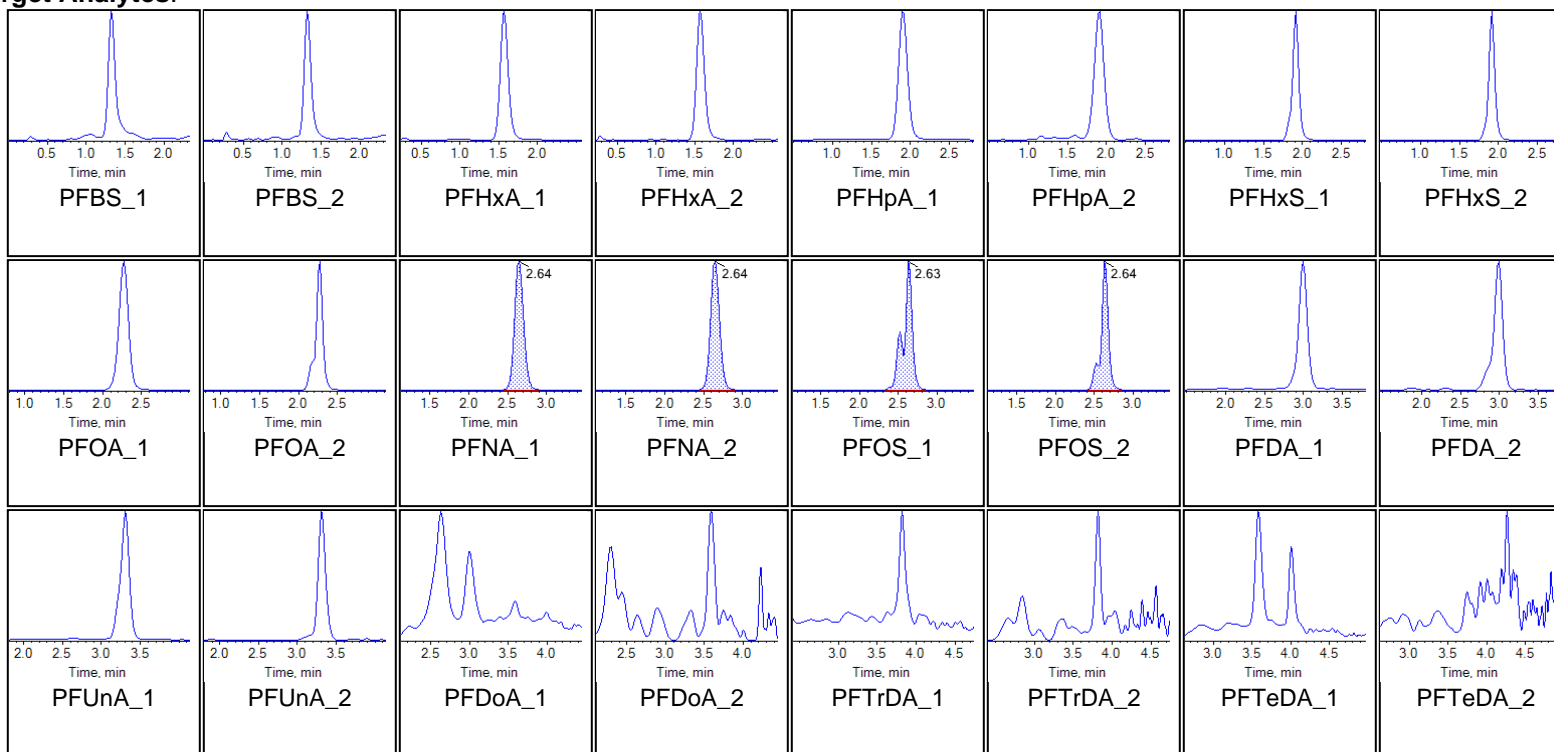
Internal Standards:



Sample Name	G1772-FS-D(11)	Injection Vial	31
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:37:33 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

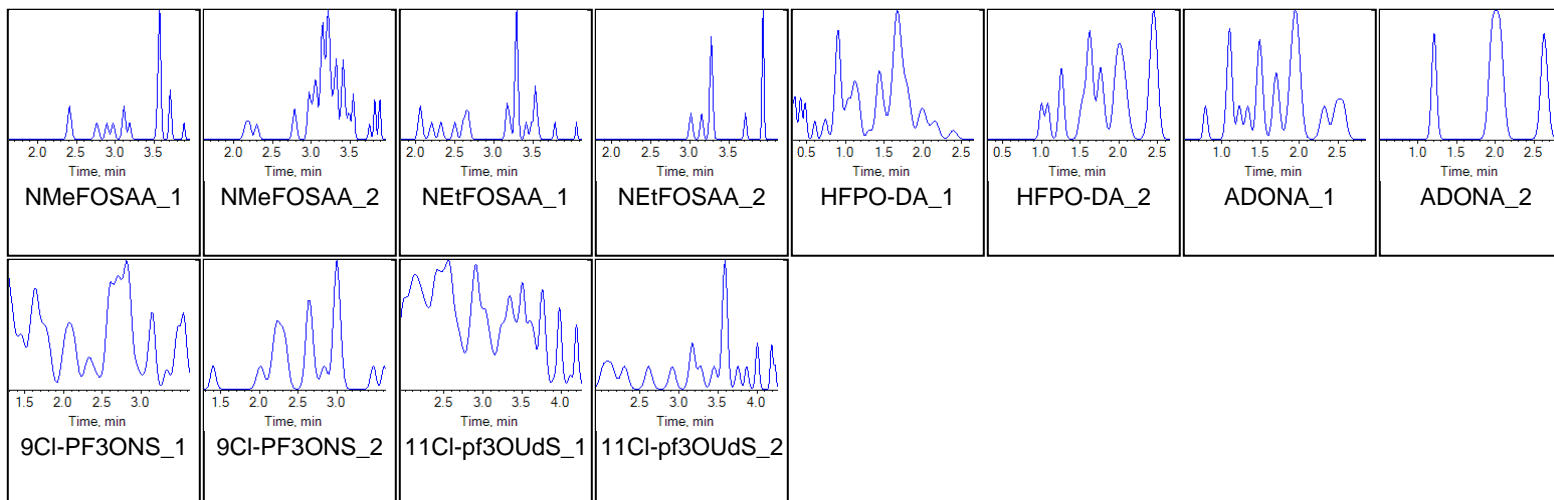
Chromatograms

Target Analytes:

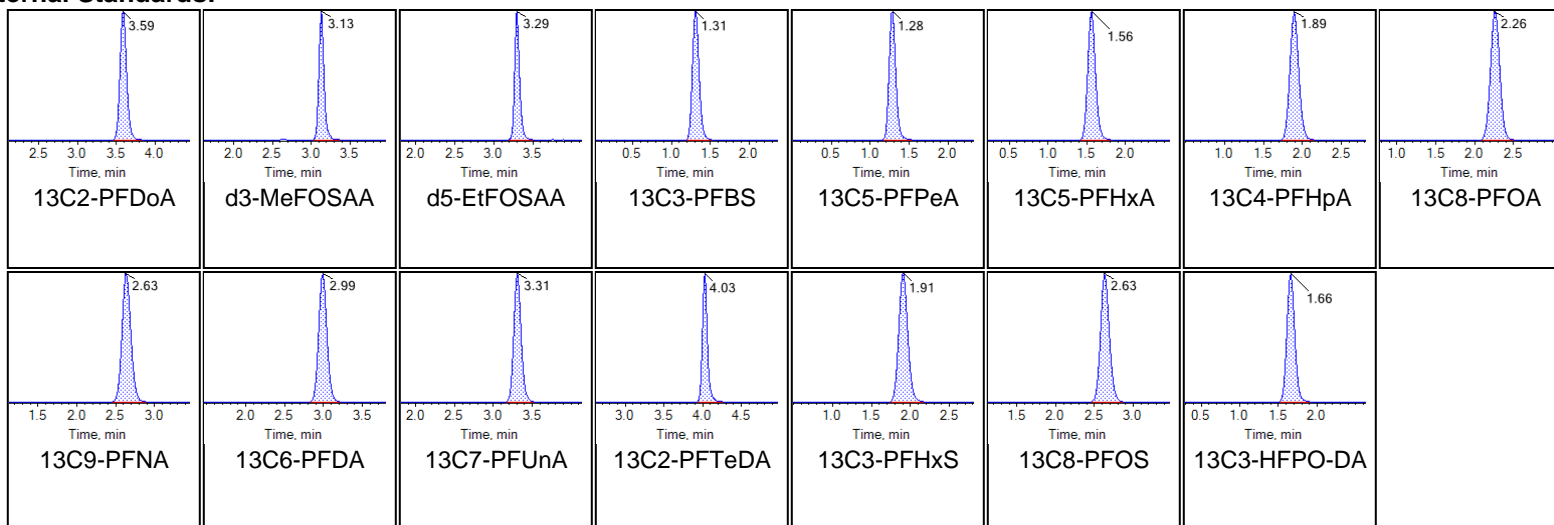




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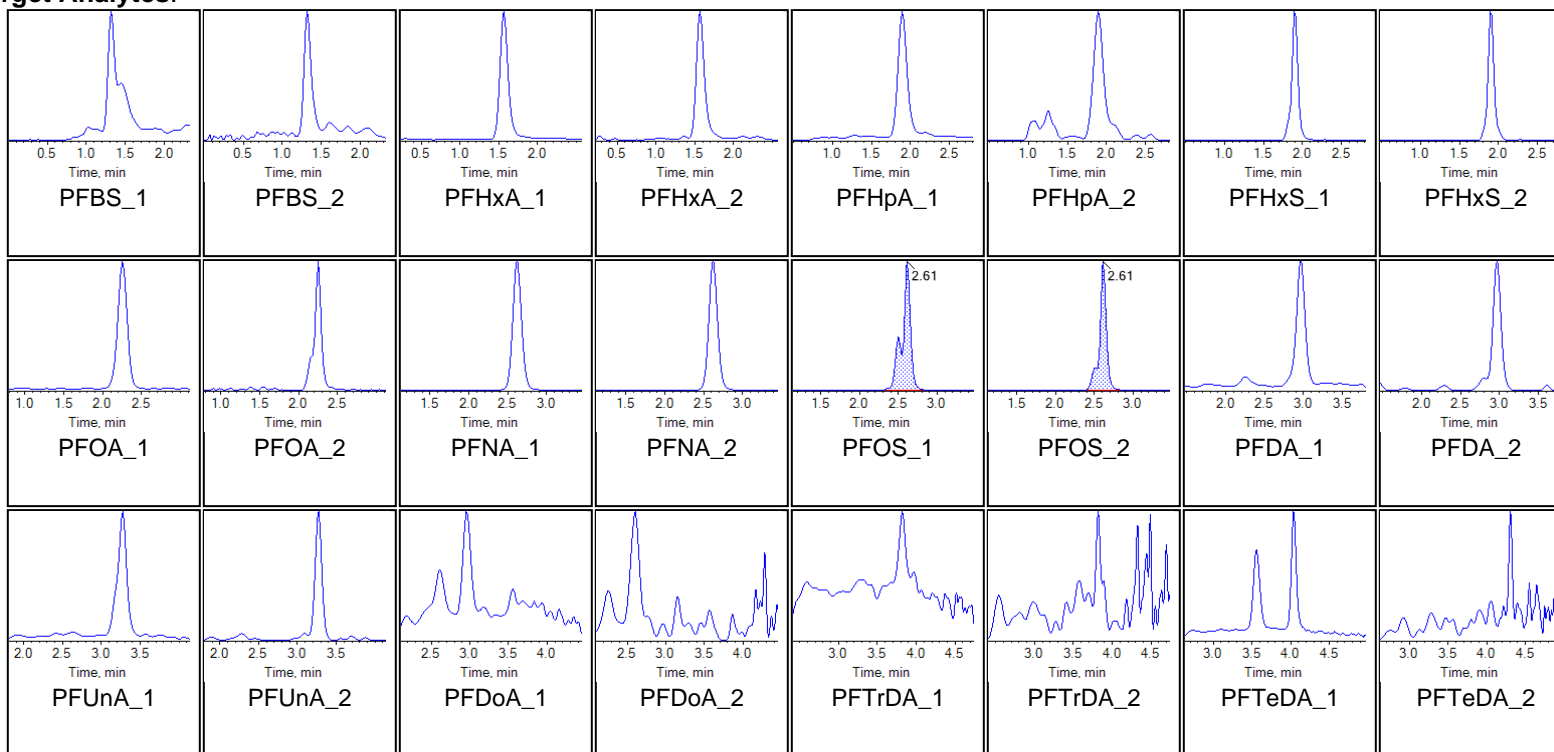
Internal Standards:



Sample Name	G1772-FS-D(13)	Injection Vial	32
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:48:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

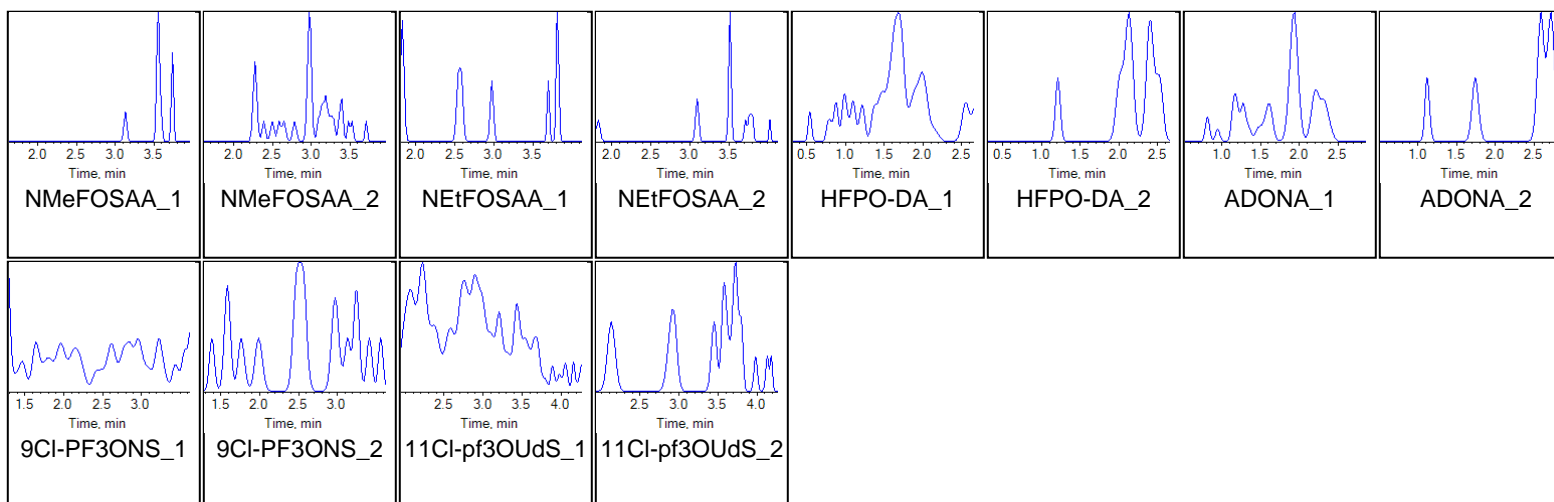
Chromatograms

Target Analytes:

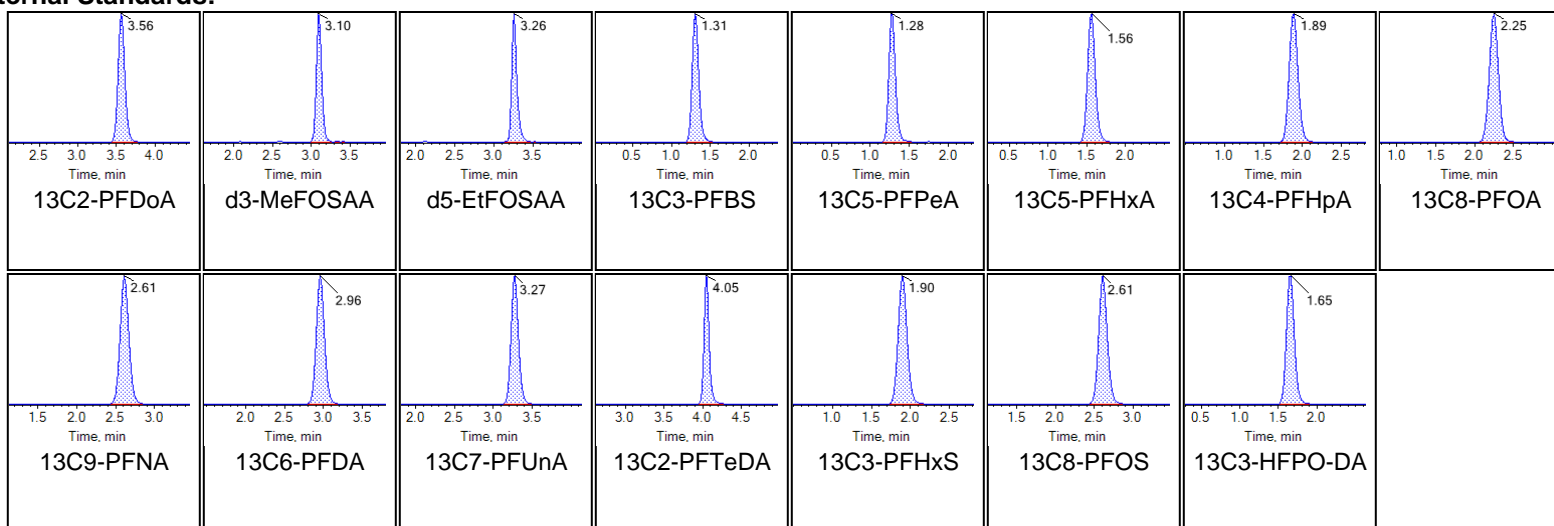




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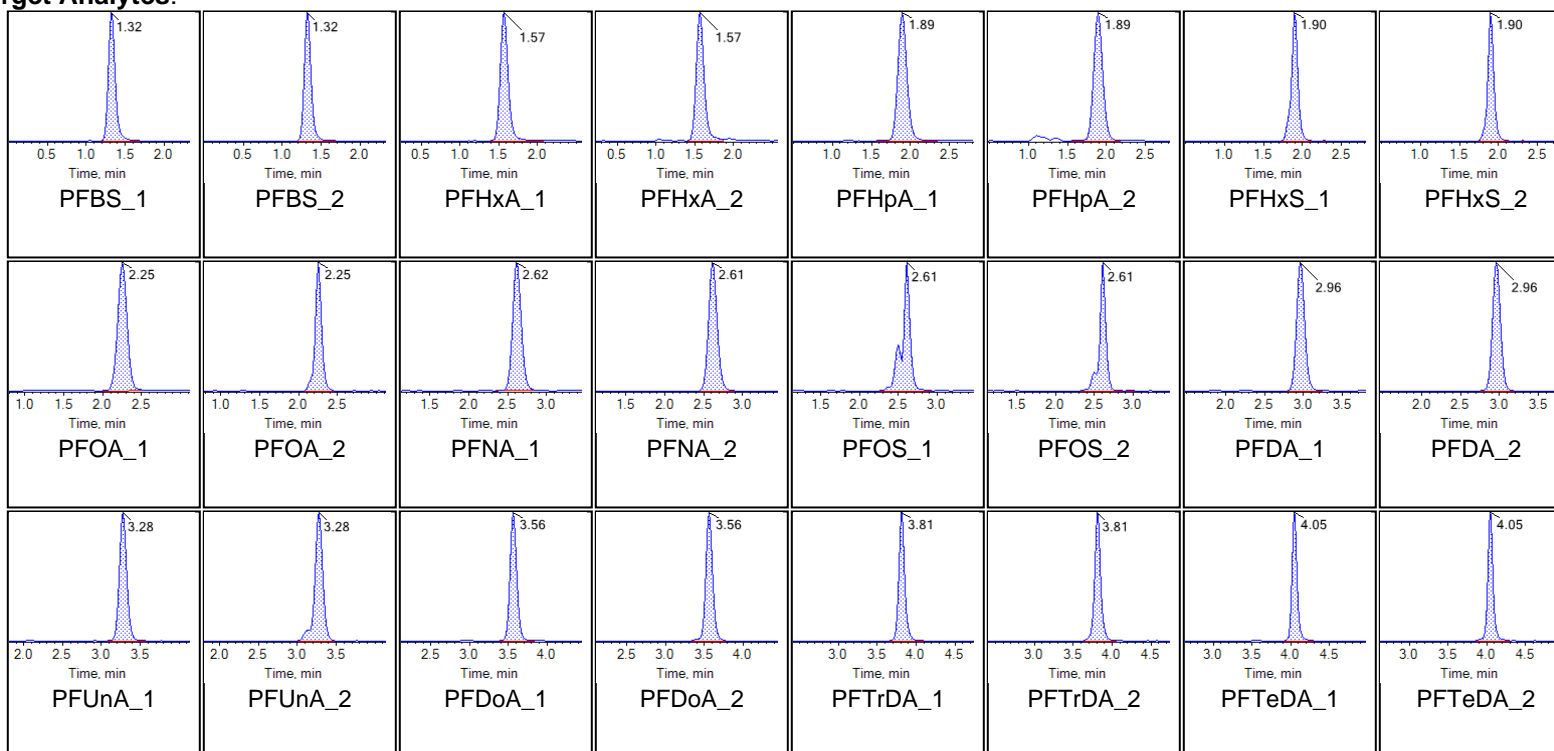
Chromatogram Report

Created with Analyst Reporter
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Sample Name	LE76 CCV	Injection Vial	34
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 11:09:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321

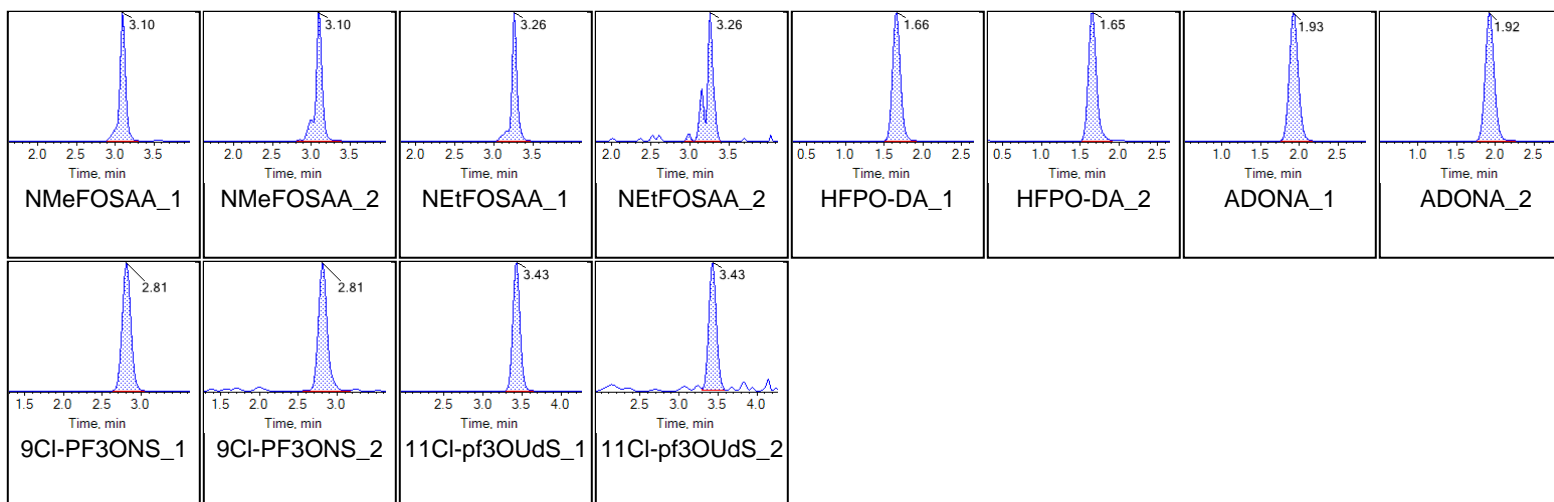
Chromatograms

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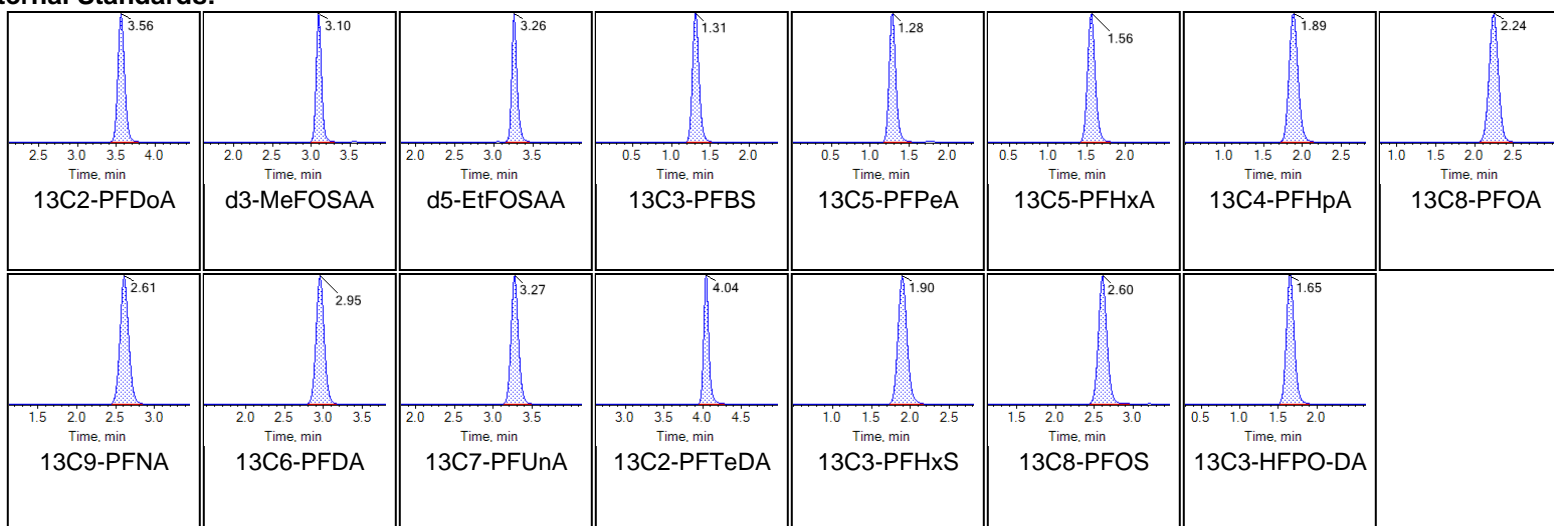




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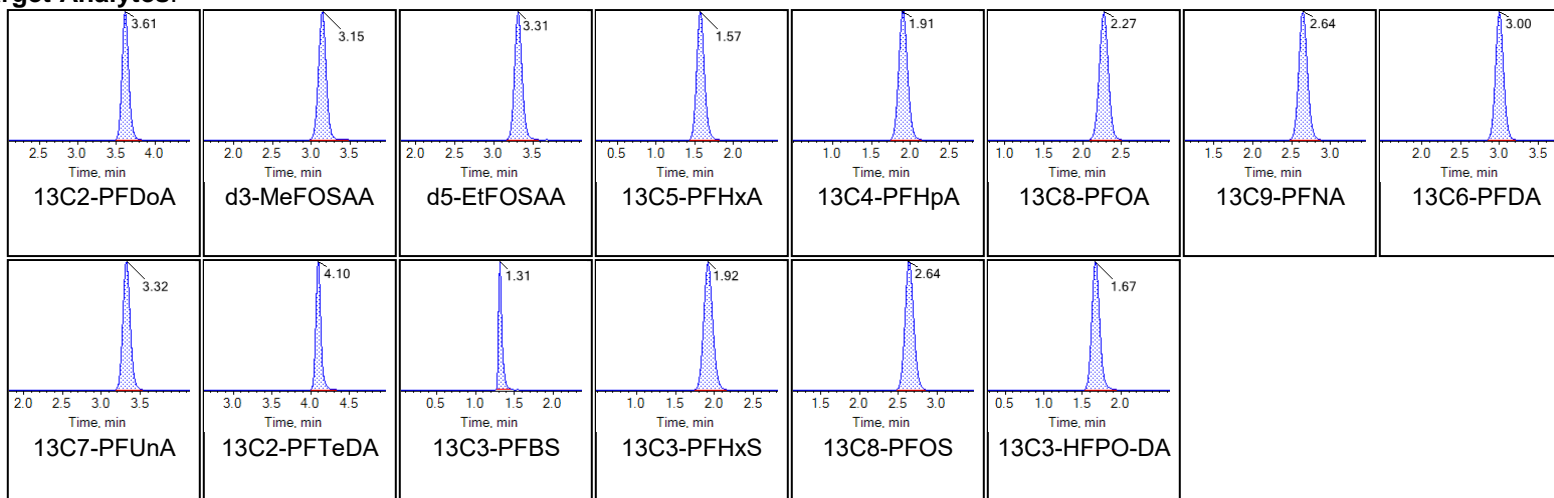
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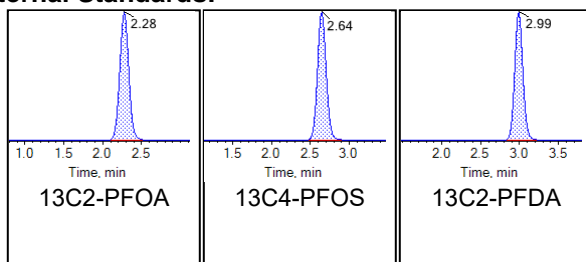
Sample Name	LD74	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:07:44 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





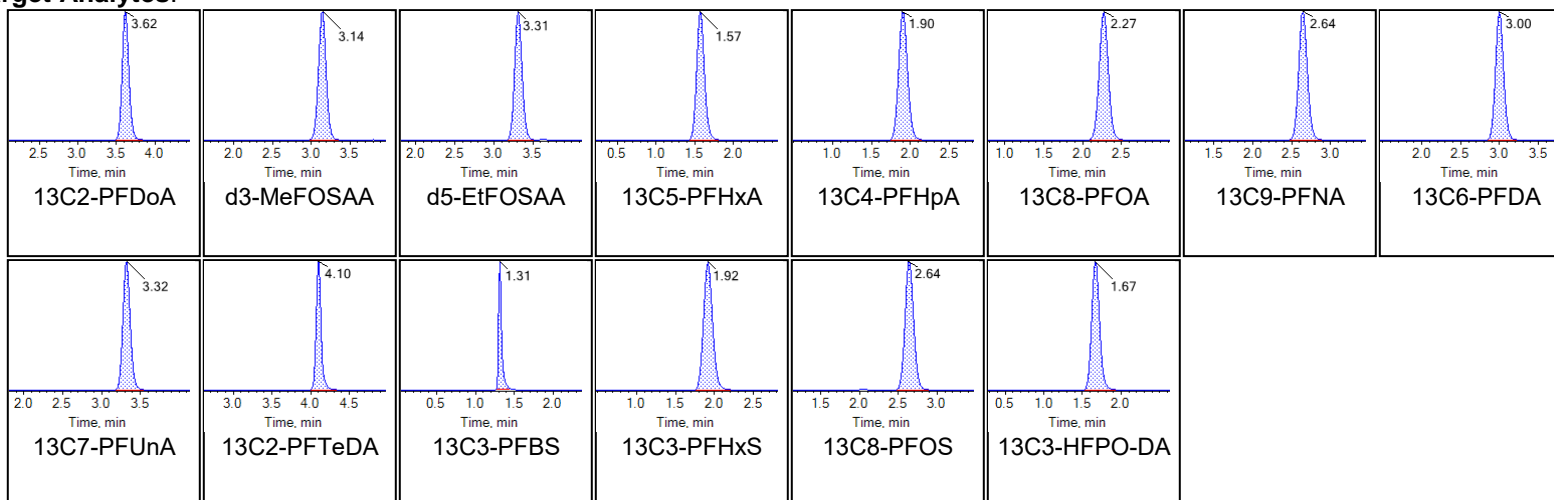
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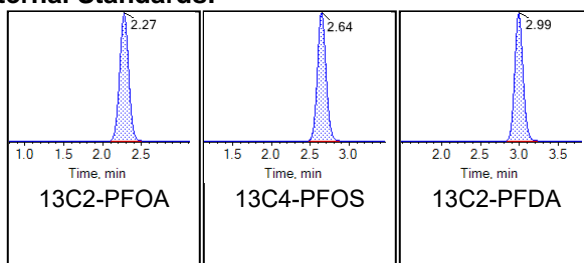
Sample Name	LD75	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:18:11 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





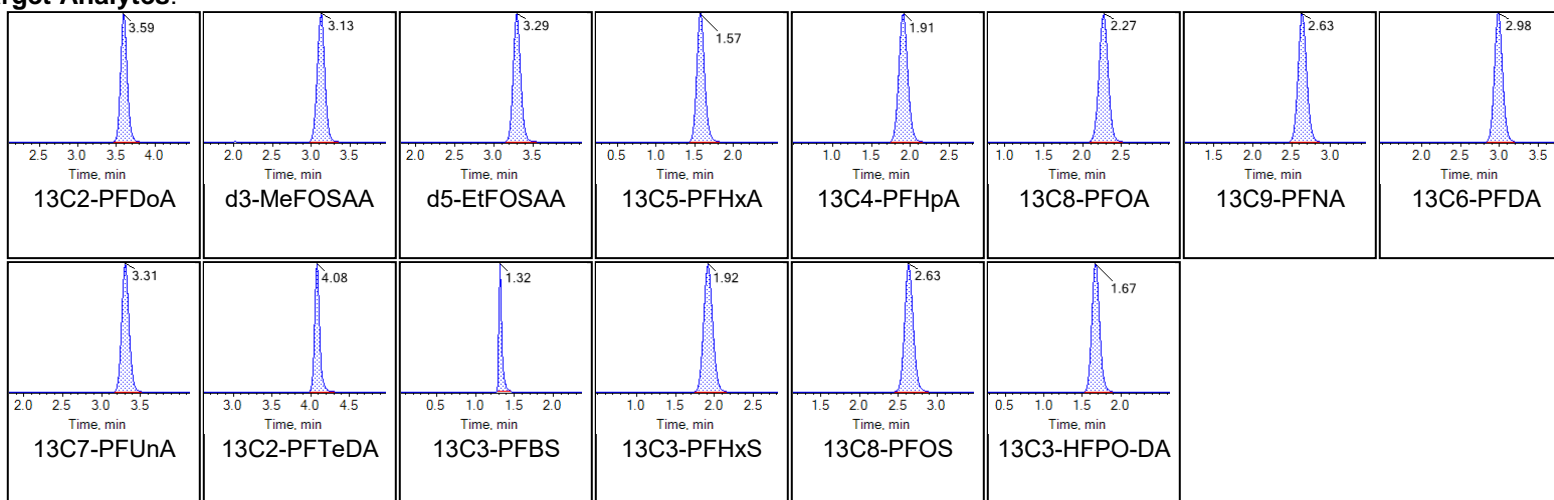
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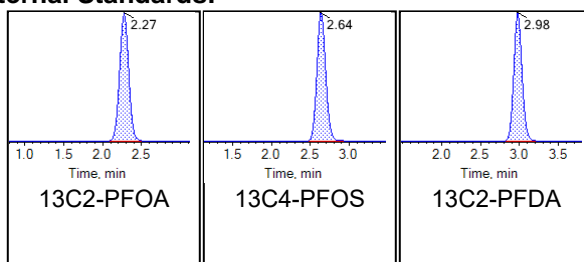
Sample Name	LD76	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:28:38 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





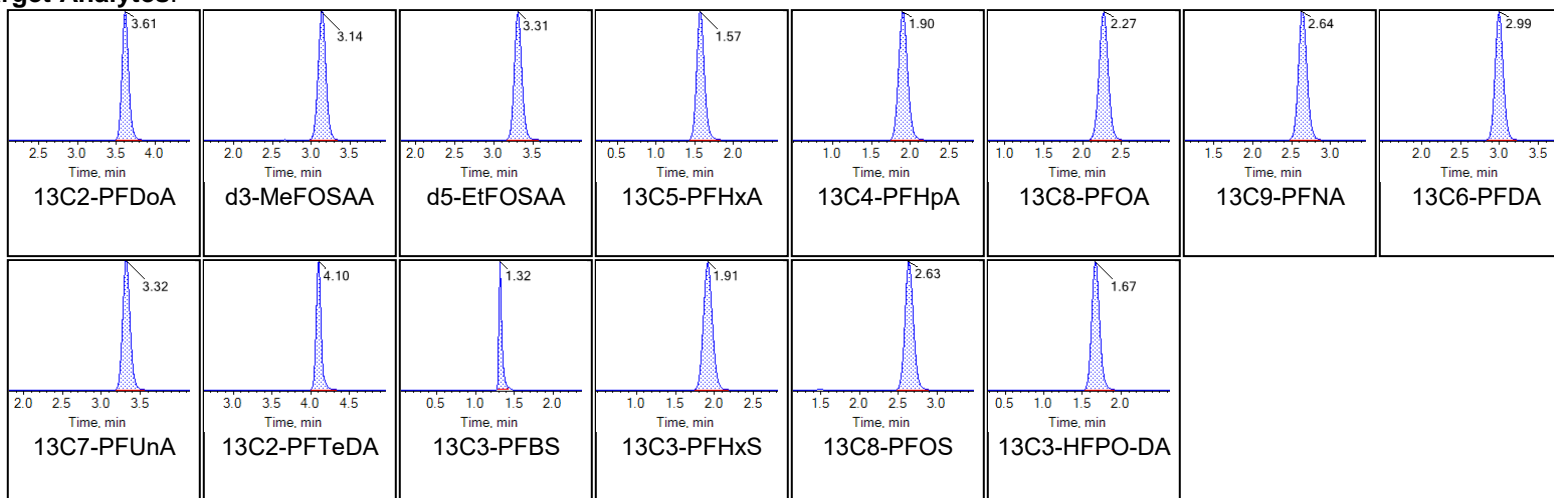
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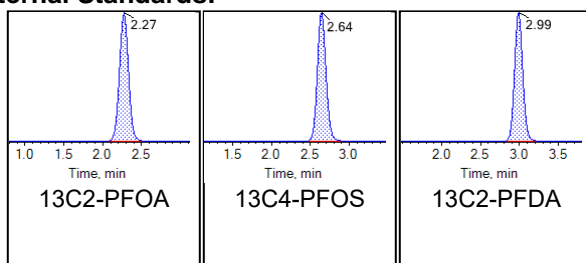
Sample Name	LD77	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:39:05 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





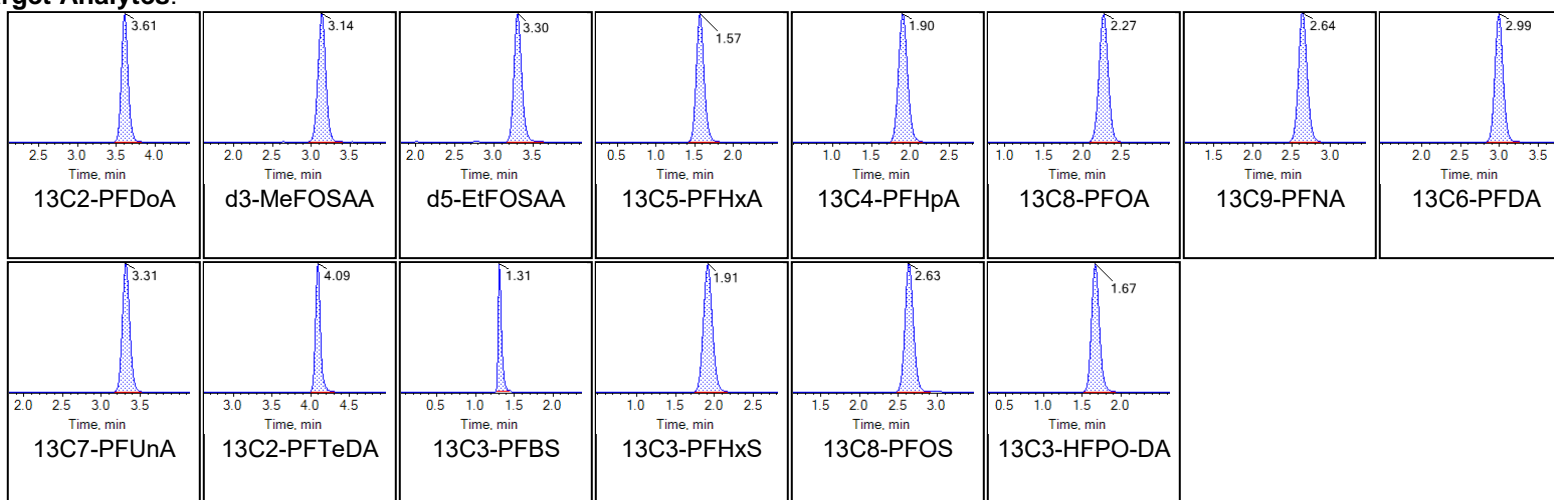
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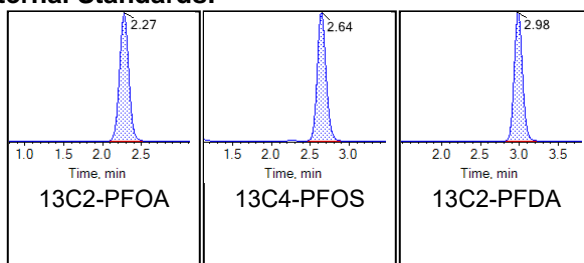
Sample Name	LD78	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:49:32 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





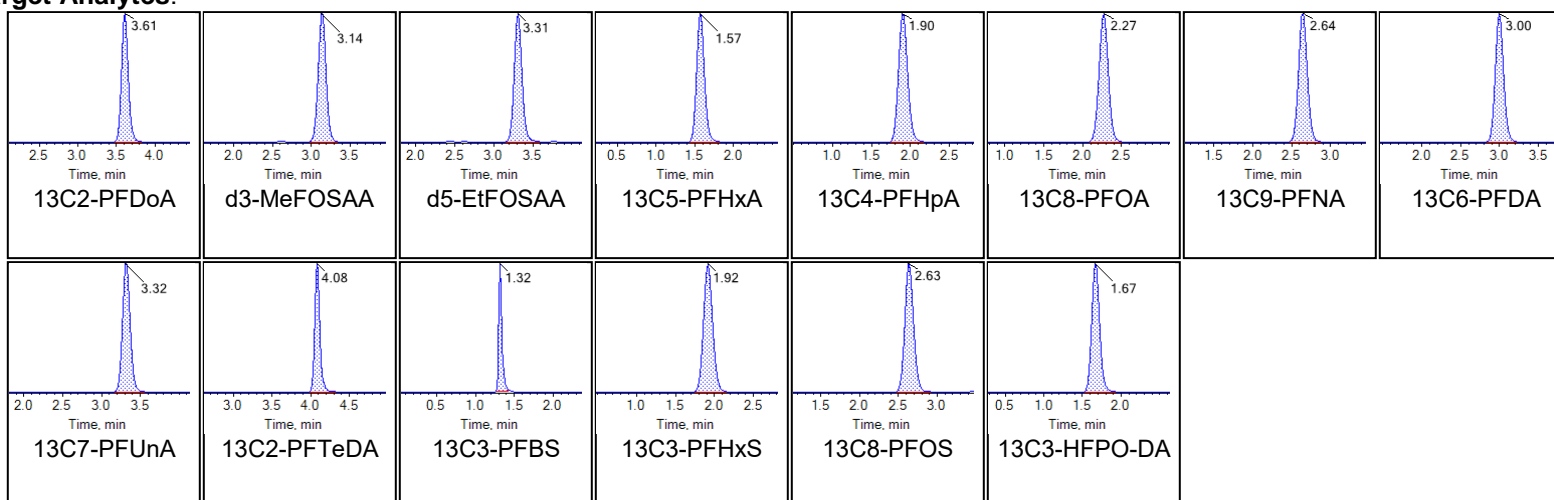
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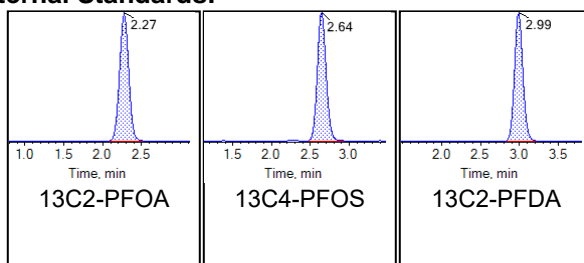
Sample Name	LD79	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 8:59:59 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





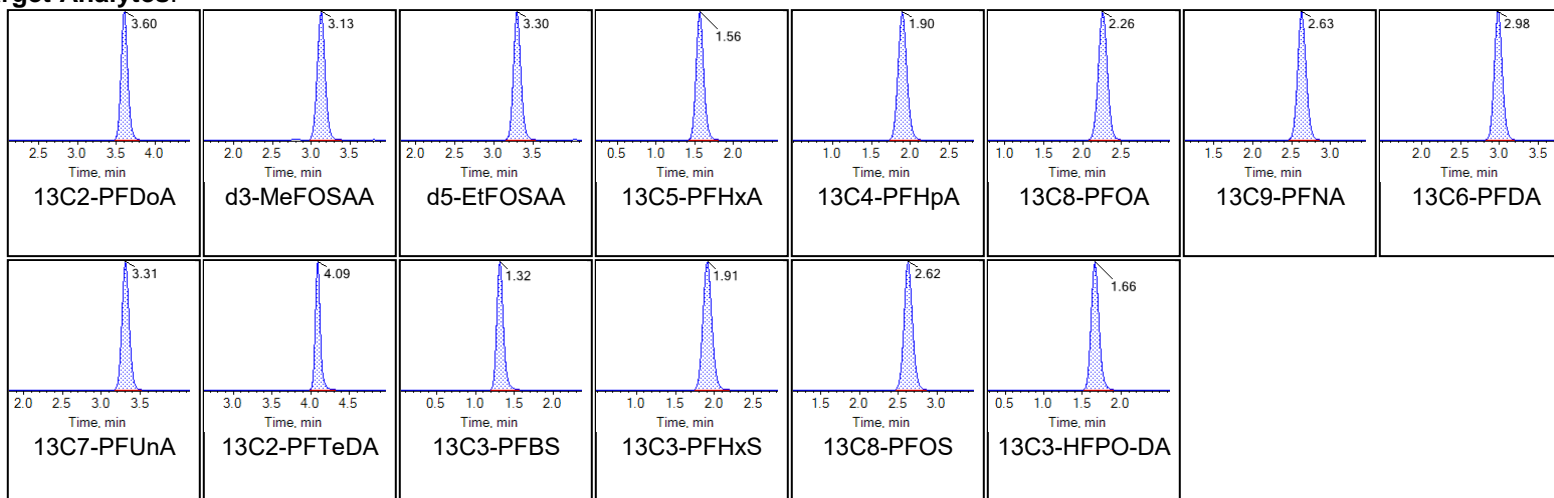
Chromatogram Report

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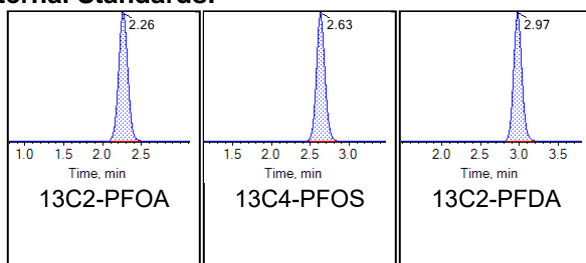
Sample Name	LD80 IB	Injection Vial	8
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 9:10:26 PM	Data File	AE_11112020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





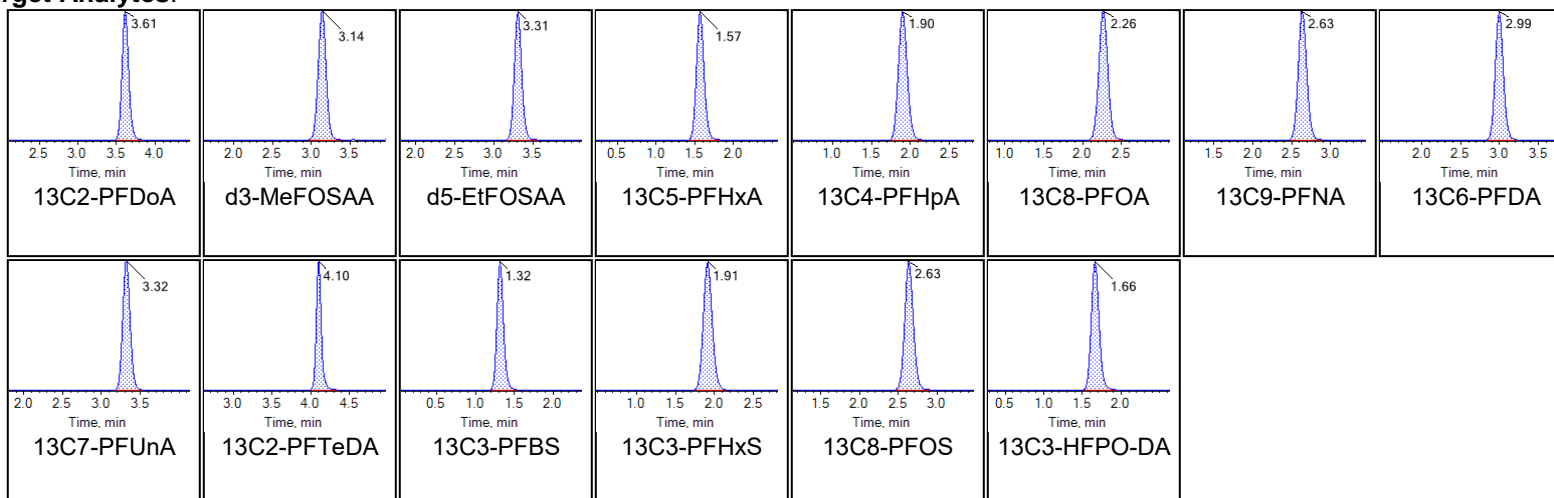
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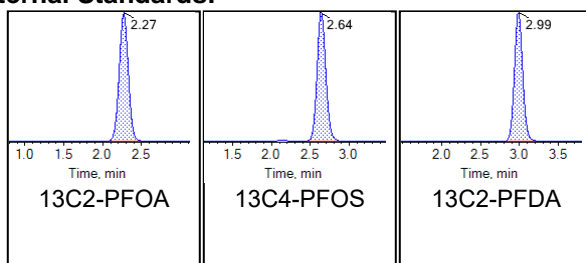
Sample Name	LD81 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 9:20:54 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





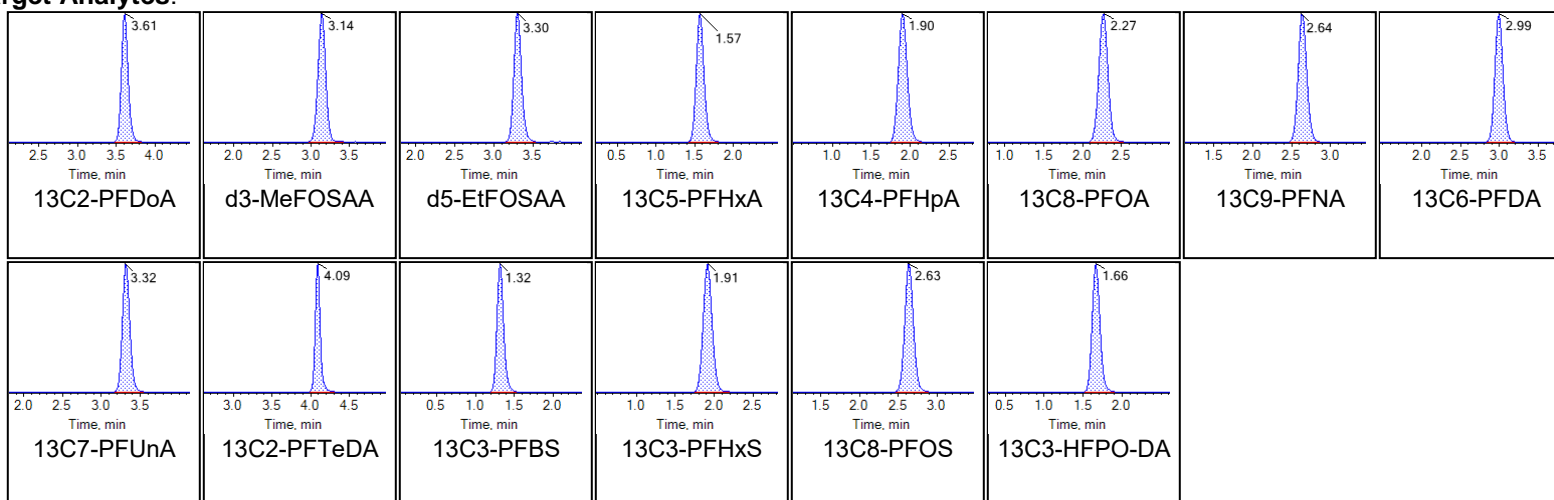
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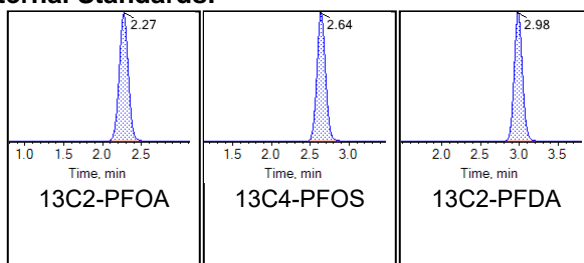
Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 10:44:35 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





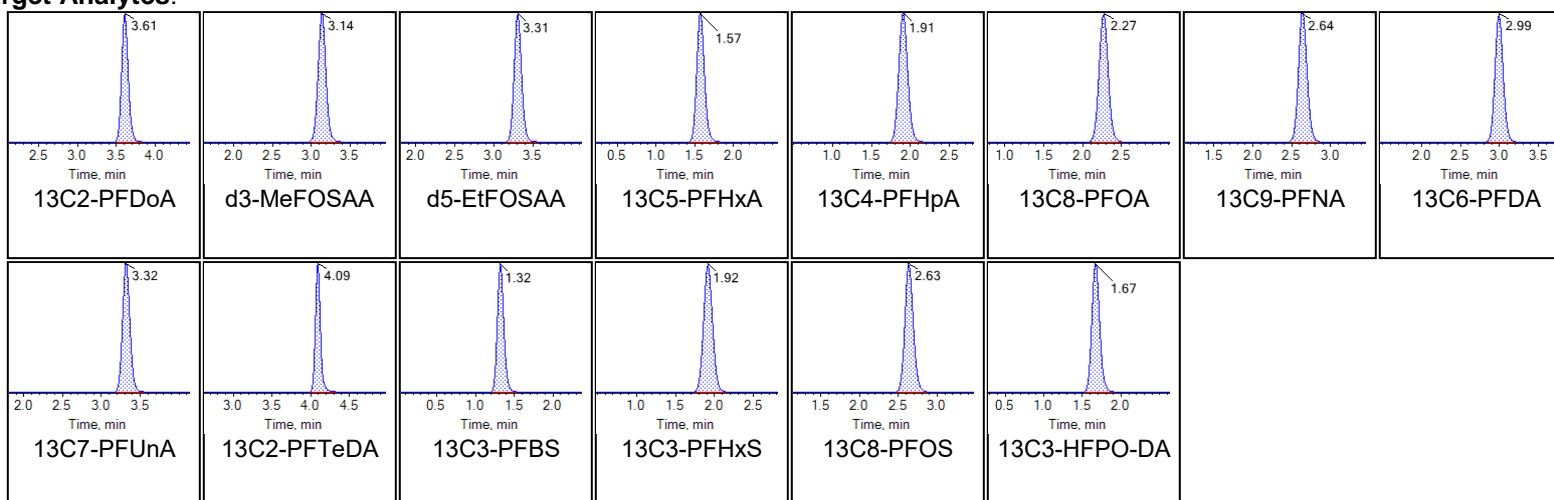
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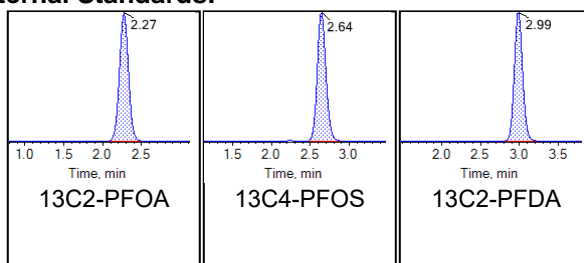
Sample Name	DA945PB-FS(0)	Injection Vial	19
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:05:31 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





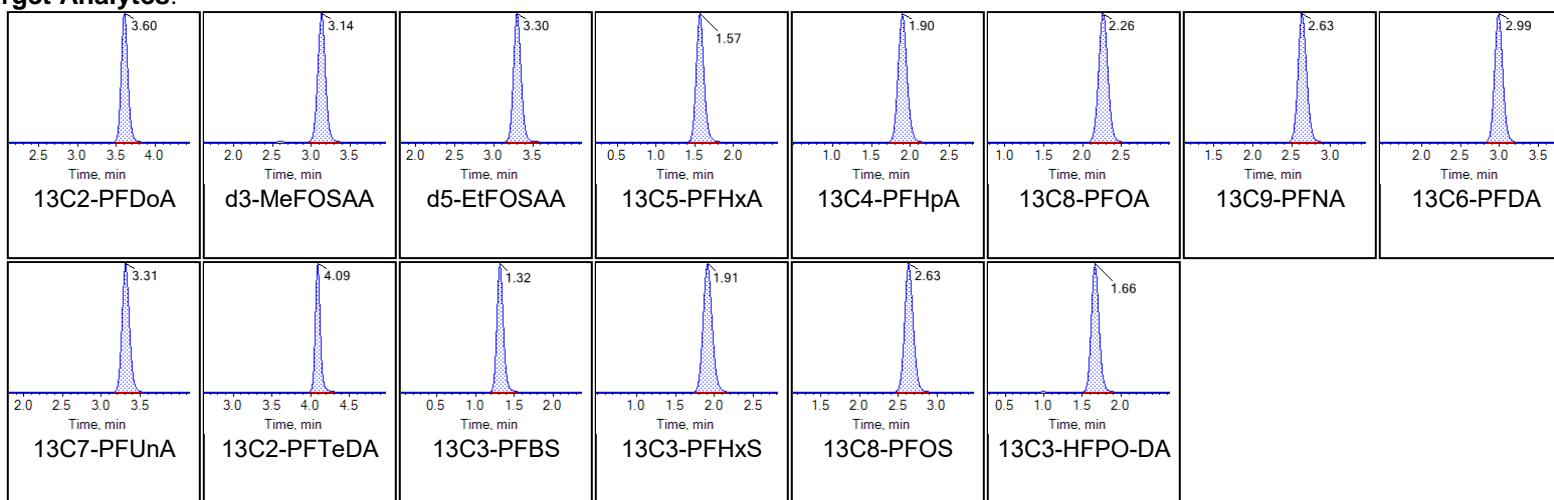
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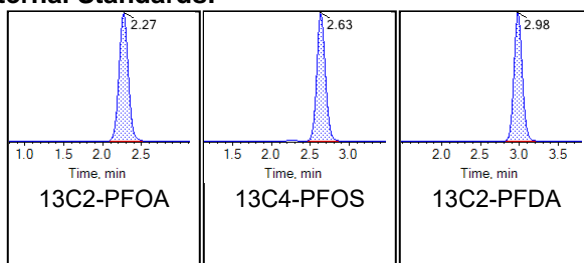
Sample Name	DA946LCS-FS(0)	Injection Vial	20
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:15:58 PM	Data File	AE_11112020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





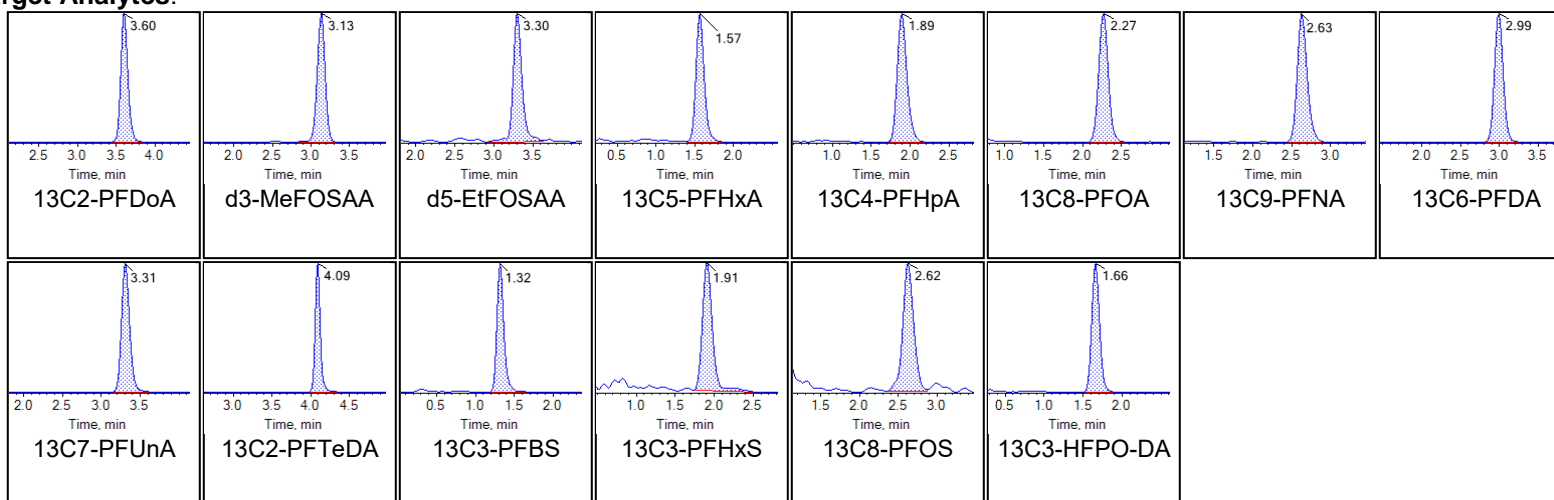
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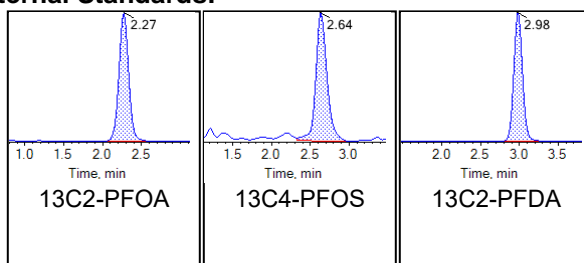
Sample Name	G1765-FS(0)	Injection Vial	21
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:26:27 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





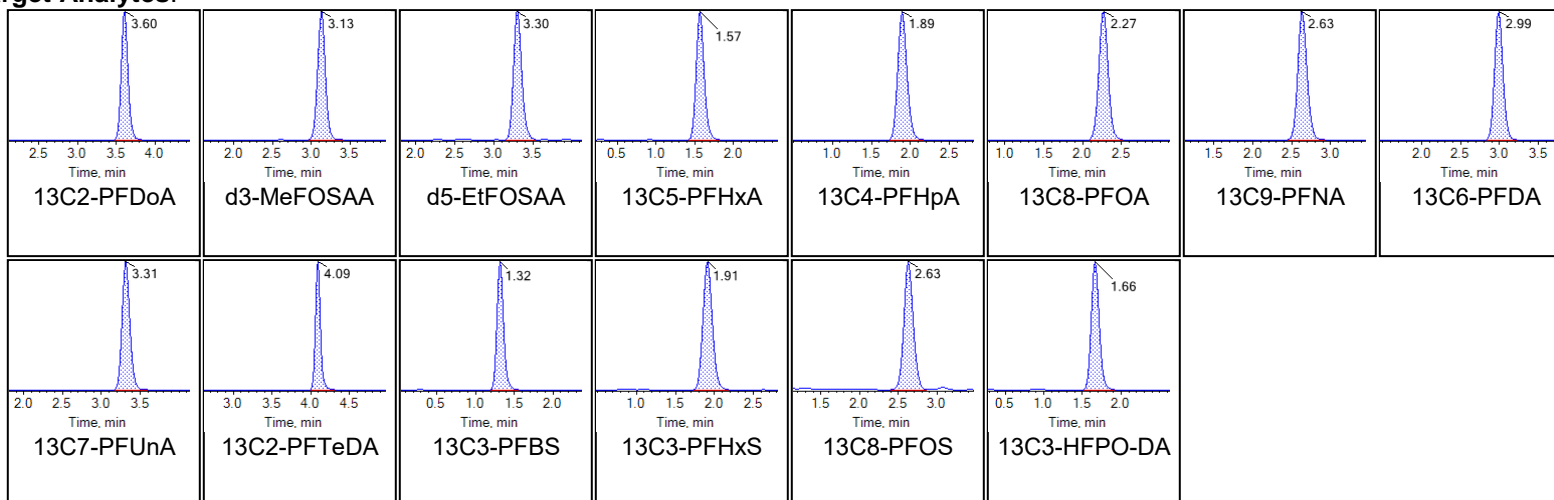
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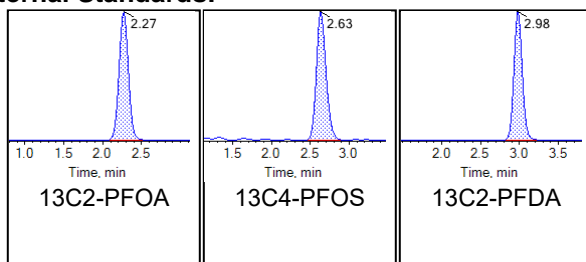
Sample Name	G1765-FS-D(3)	Injection Vial	22
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:36:56 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





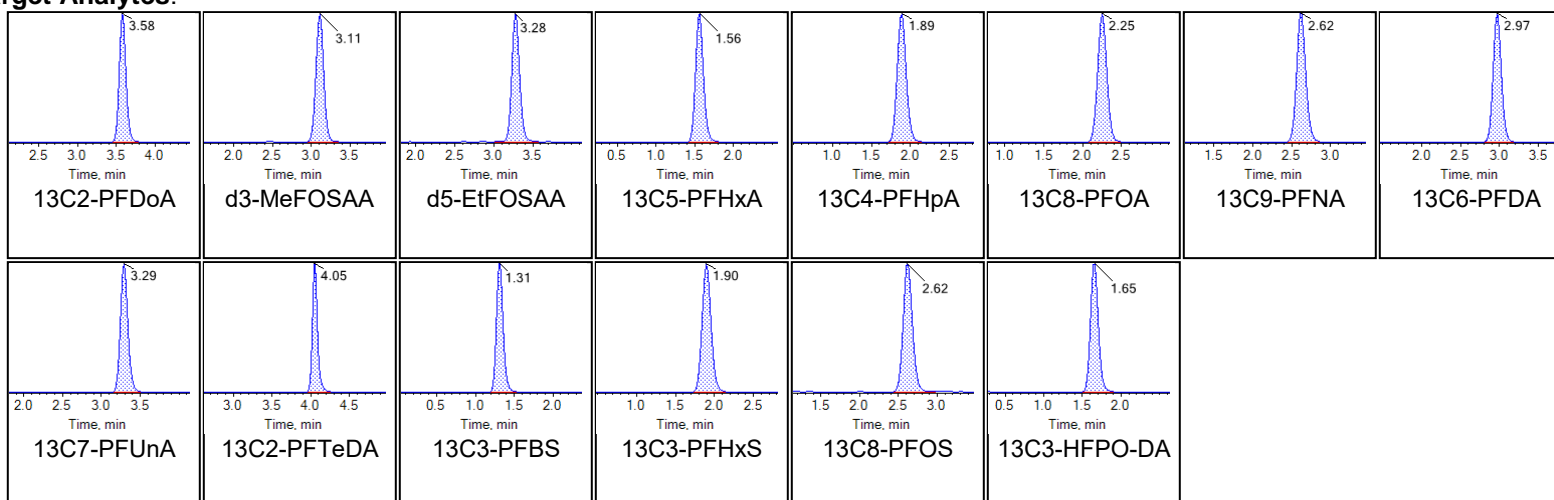
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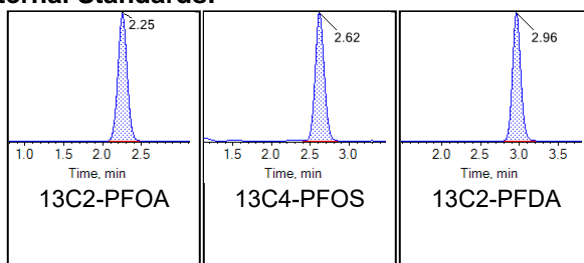
Sample Name	G1765-FS-D(5)	Injection Vial	23
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:47:24 PM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





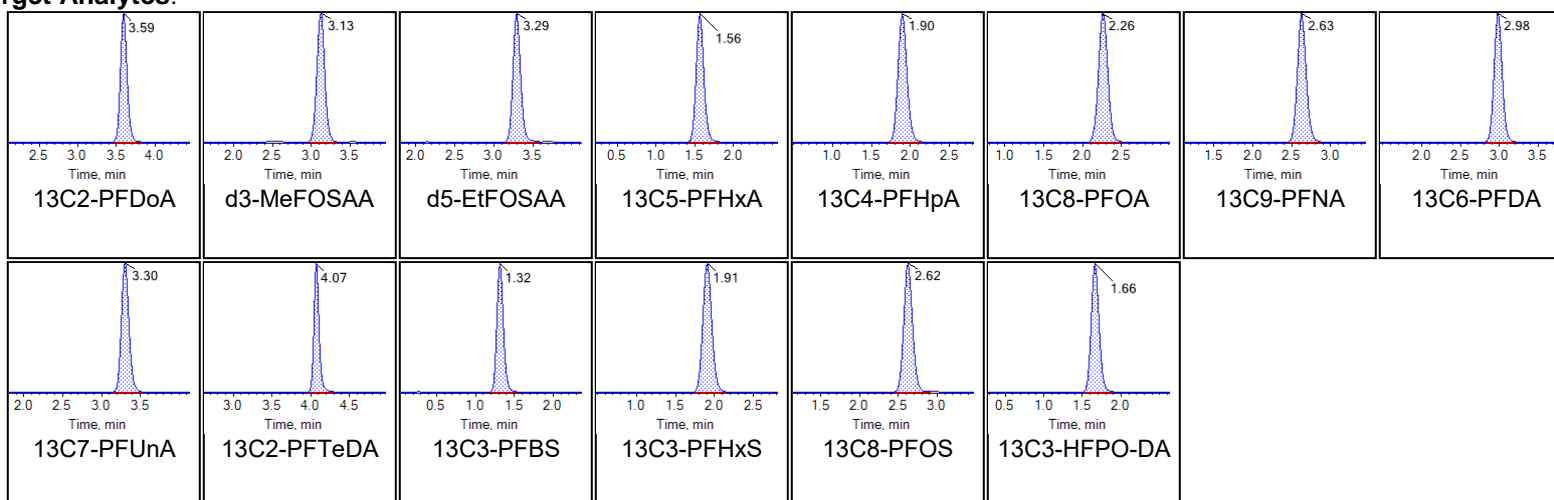
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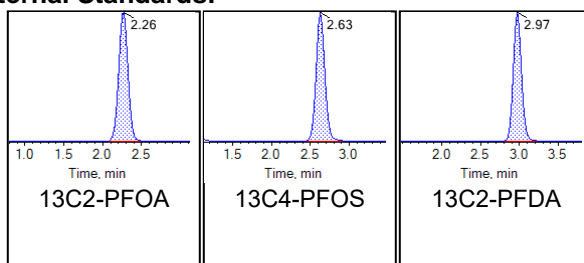
Sample Name	G1765-FS-D(7)	Injection Vial	24
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/10/2020 11:57:52 PM	Data File	AE_11112020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





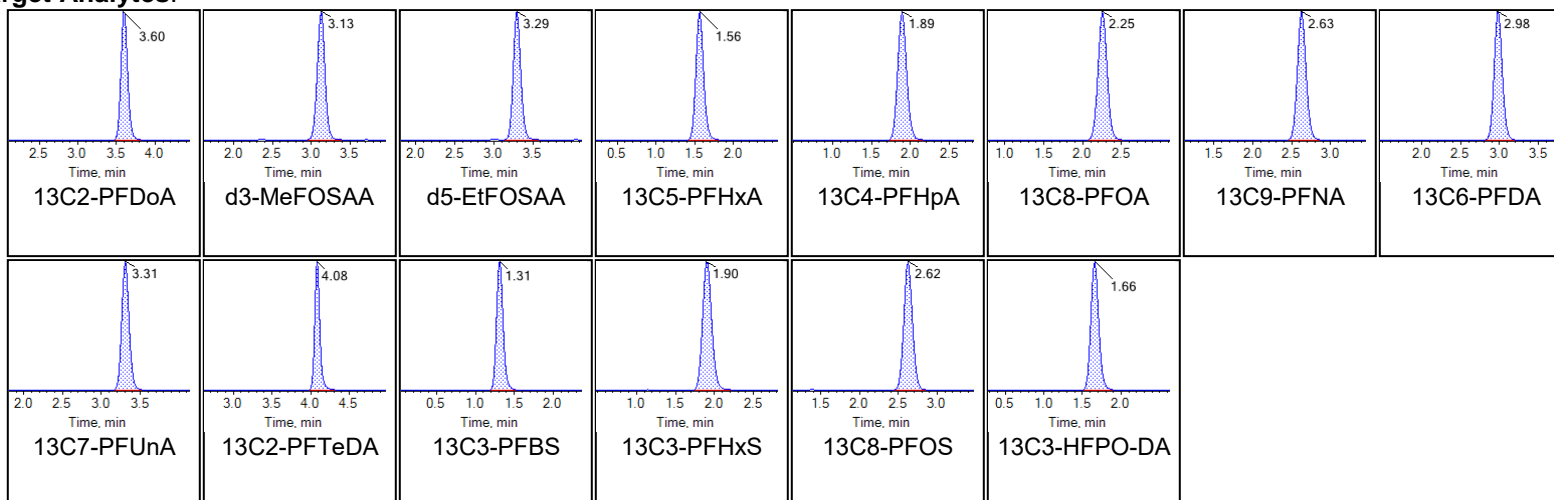
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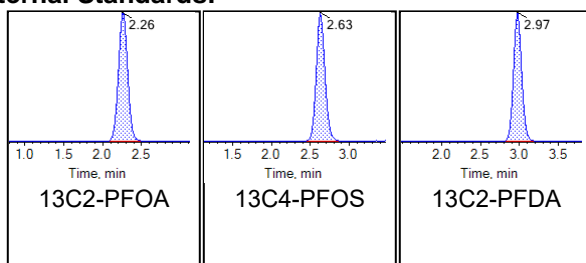
Sample Name	G1765-FS-D(9)	Injection Vial	25
Sample ID	CBD-AOA-MW04-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:08:20 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





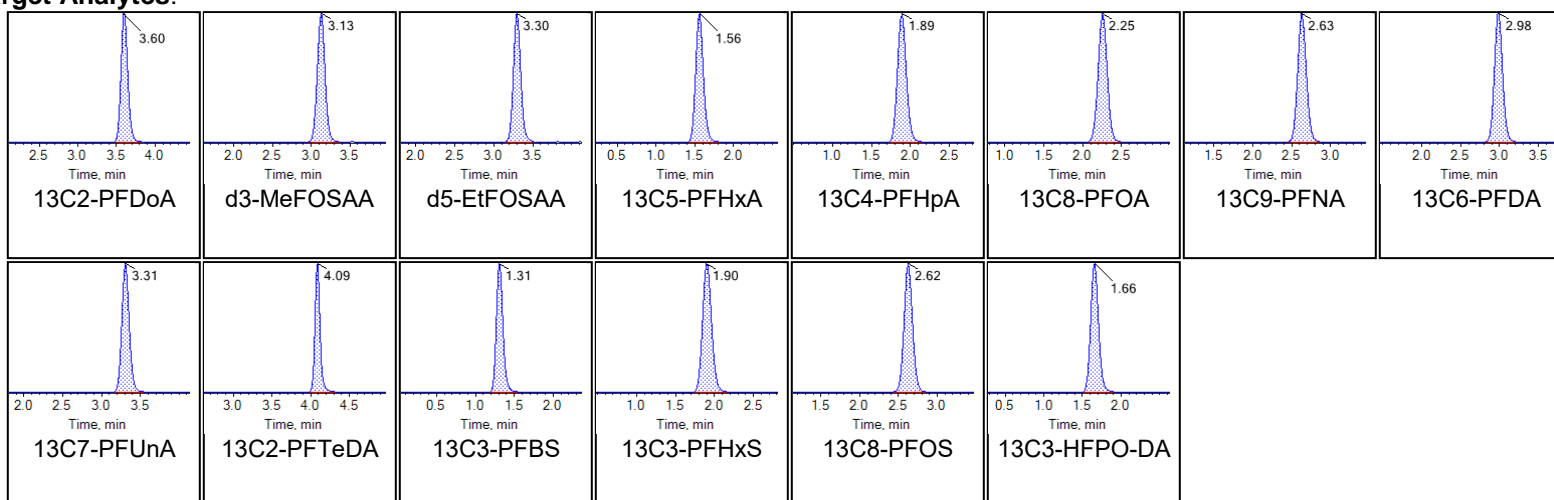
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 3:42:47 PM

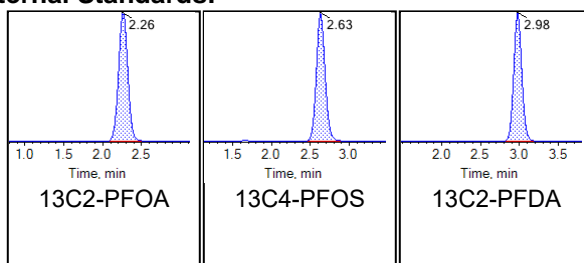
Sample Name	LE77 CCV	Injection Vial	27
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:29:16 AM	Data File	AE_11112020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





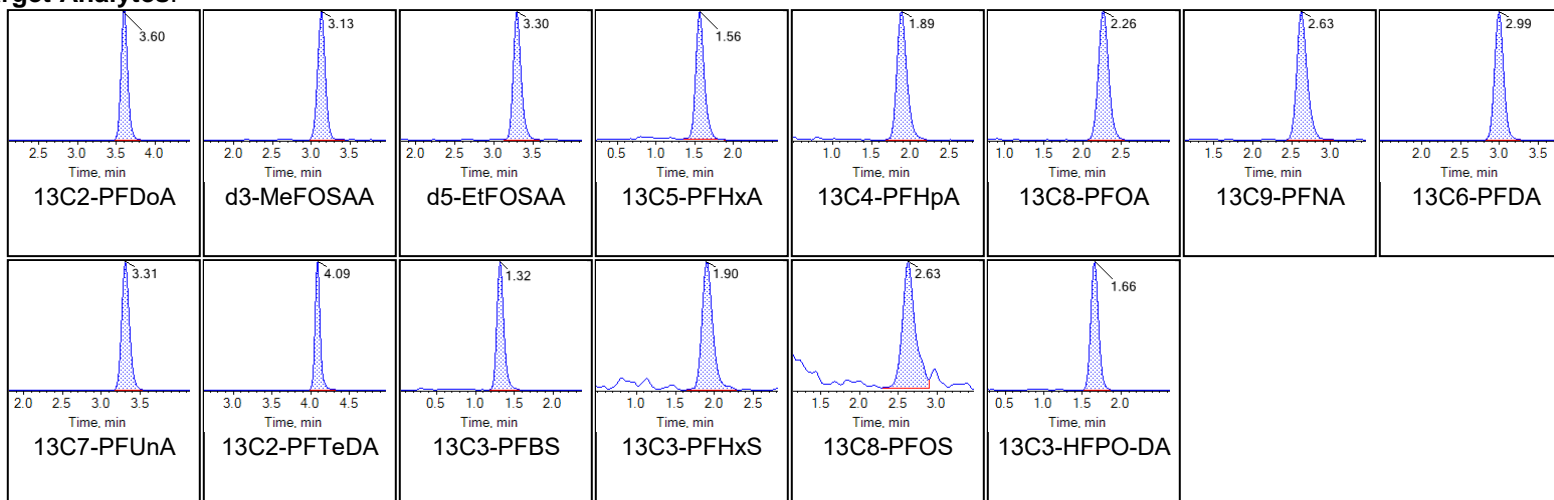
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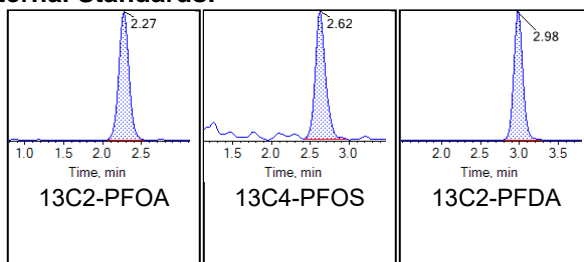
Sample Name	G1766-FS(0)	Injection Vial	28
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:39:43 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





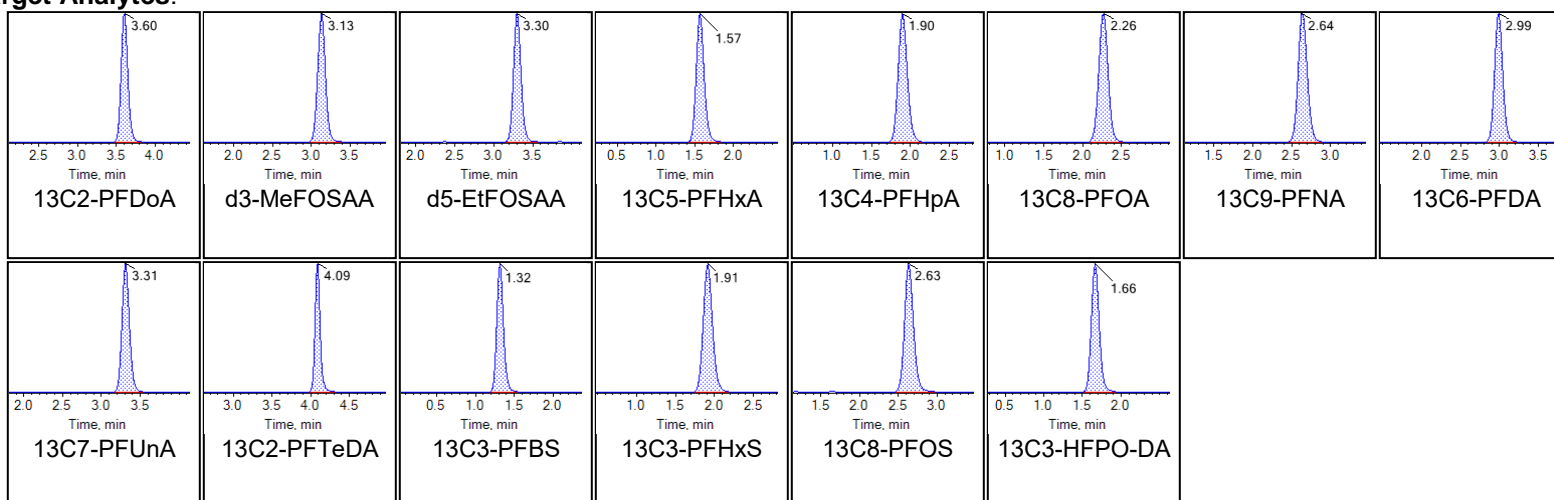
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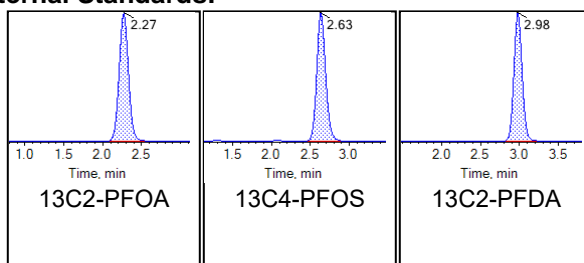
Sample Name	G1766-FS-D(5)	Injection Vial	30
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:00:39 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





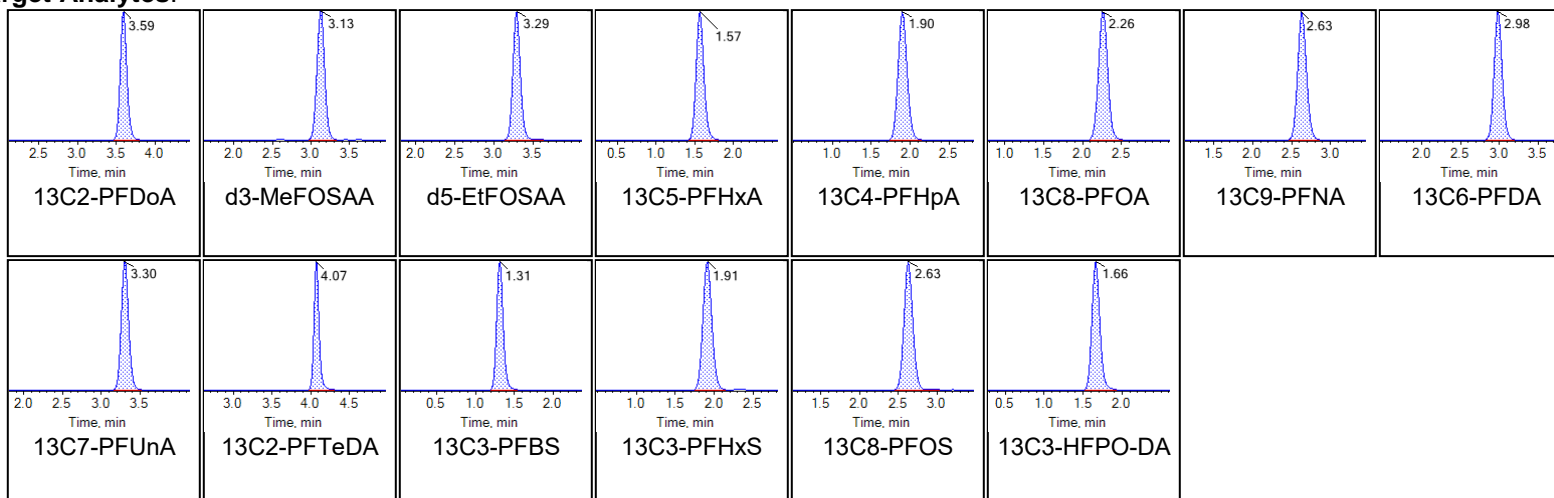
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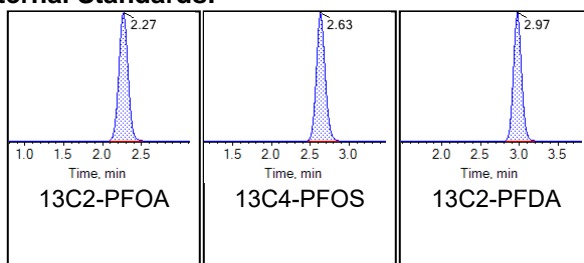
Sample Name	G1766-FS-D(7)	Injection Vial	31
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:11:06 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





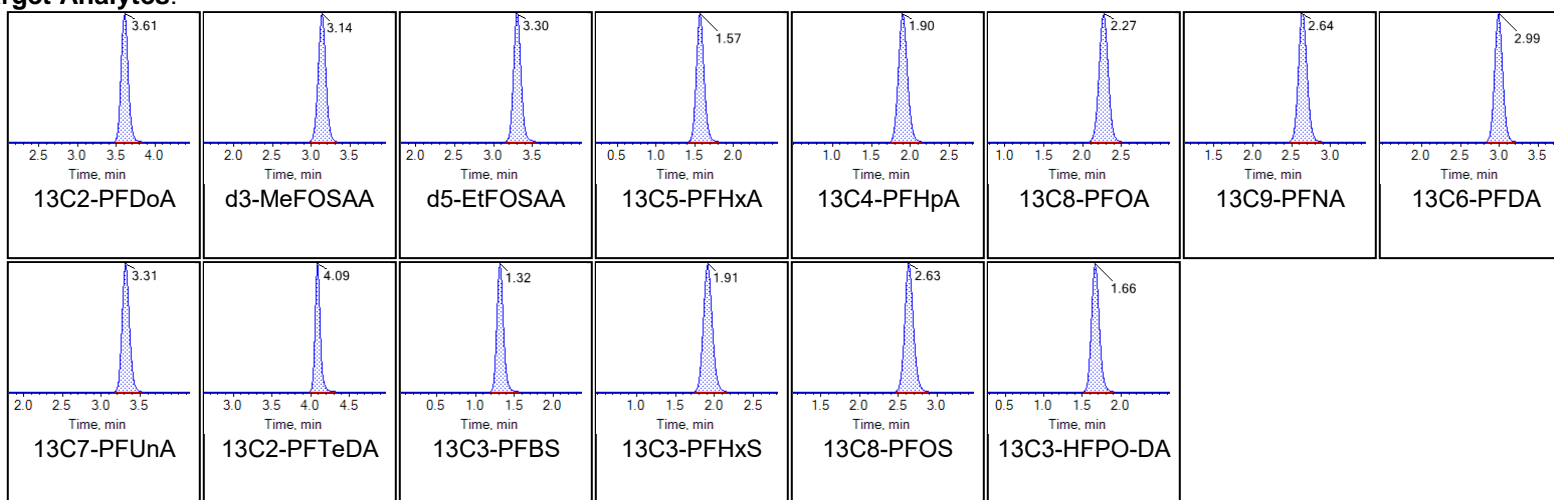
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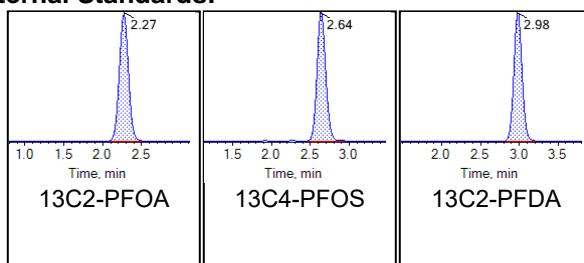
Sample Name	G1766-FS-D(9)	Injection Vial	32
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:21:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





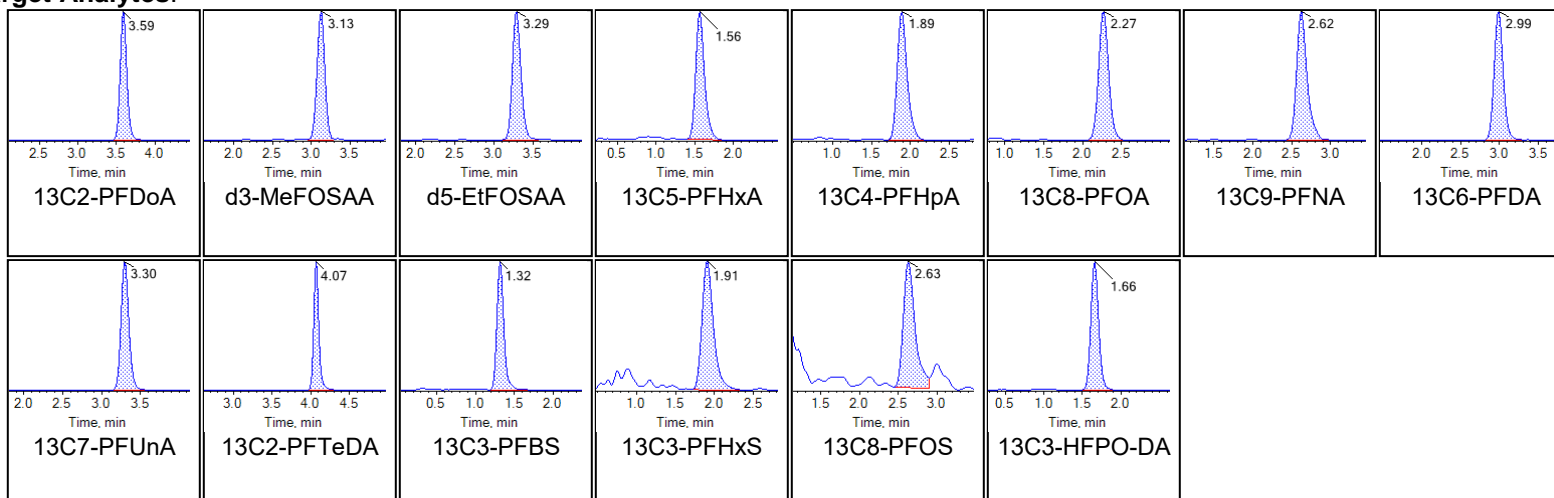
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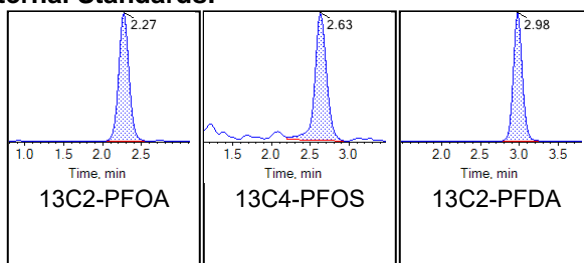
Sample Name	G1767-FS(0)	Injection Vial	33
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:32:03 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





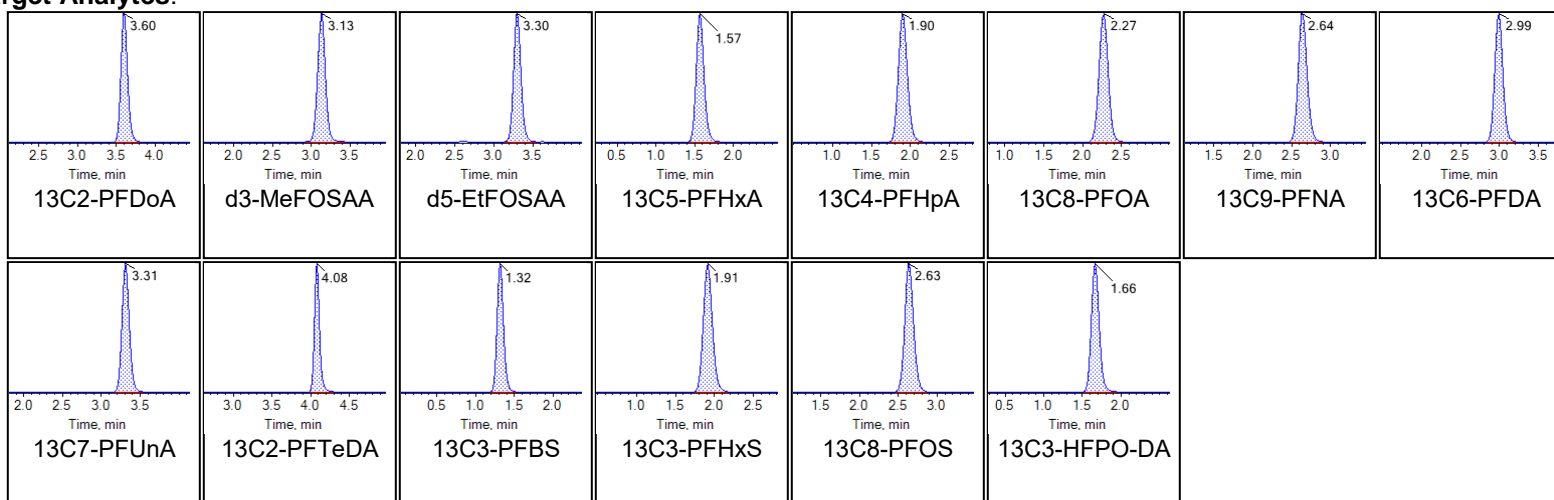
Chromatogram Report

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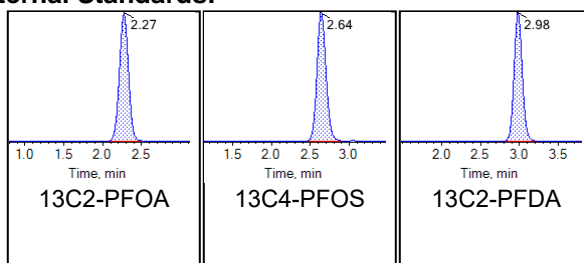
Sample Name	G1767-FS-D(7)	Injection Vial	35
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:52:58 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





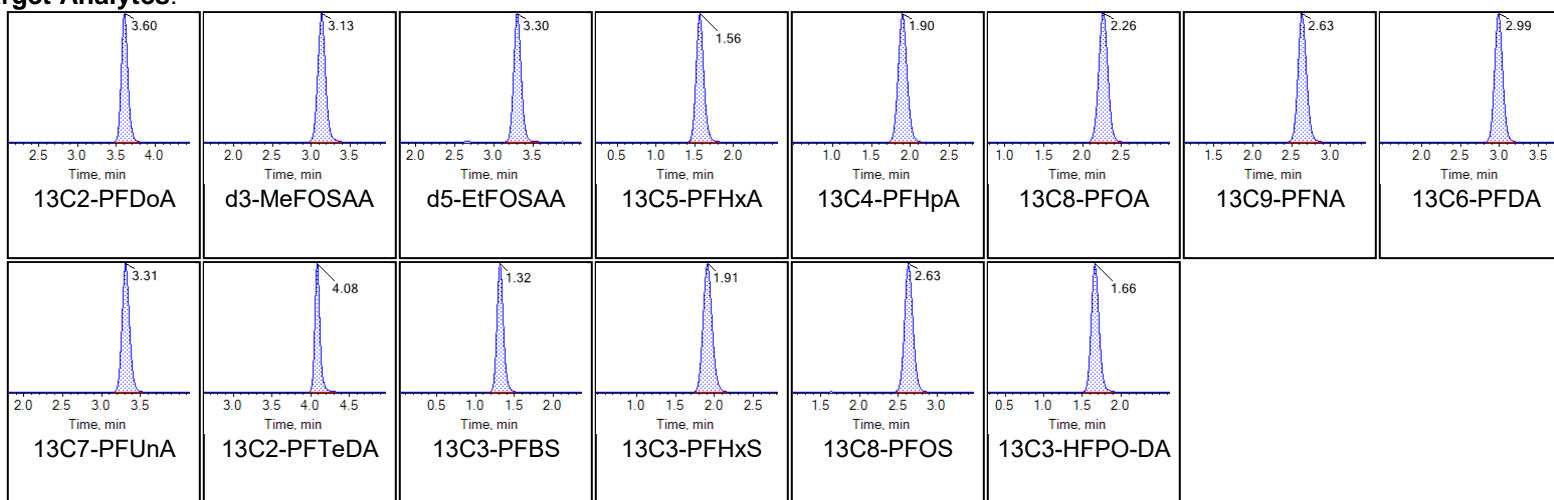
Chromatogram Report

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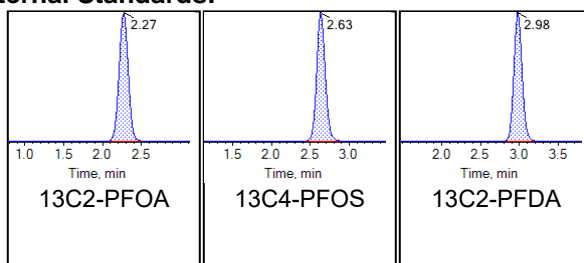
Sample Name	G1767-FS-D(9)	Injection Vial	36
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:03:27 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





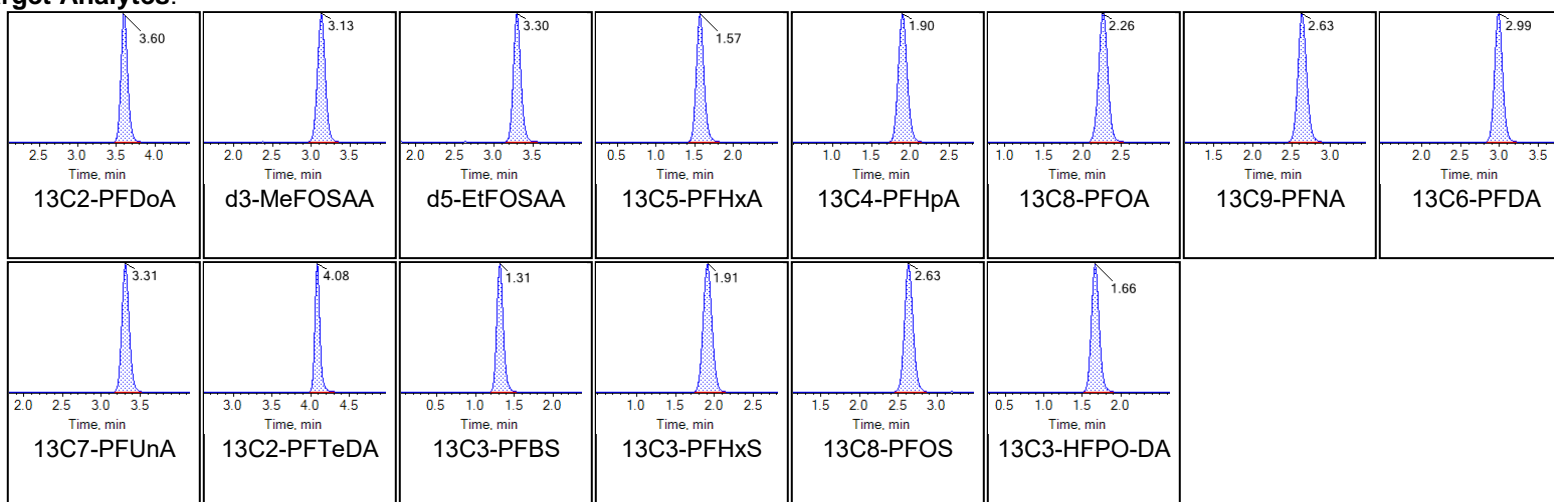
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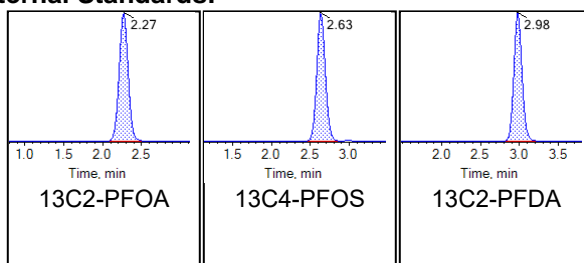
Sample Name	LE76 CCV	Injection Vial	38
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:24:22 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





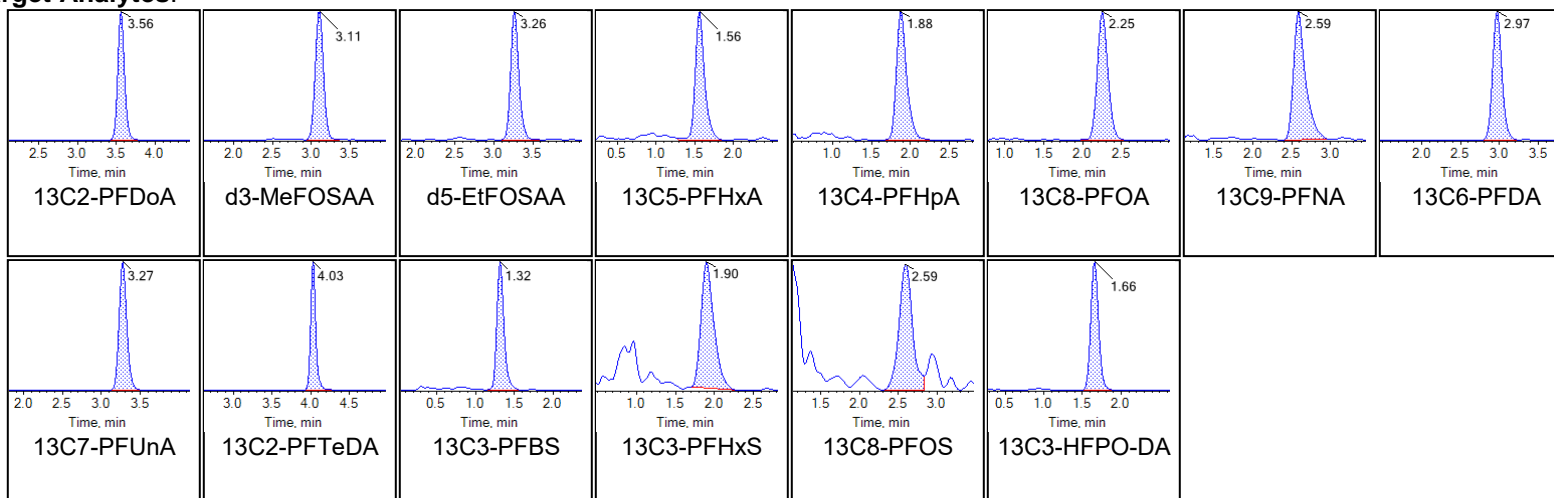
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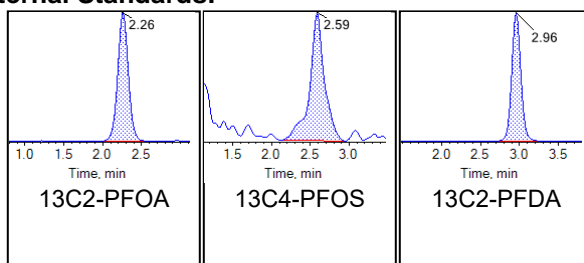
Sample Name	G1768-FS(0)	Injection Vial	39
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:34:50 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





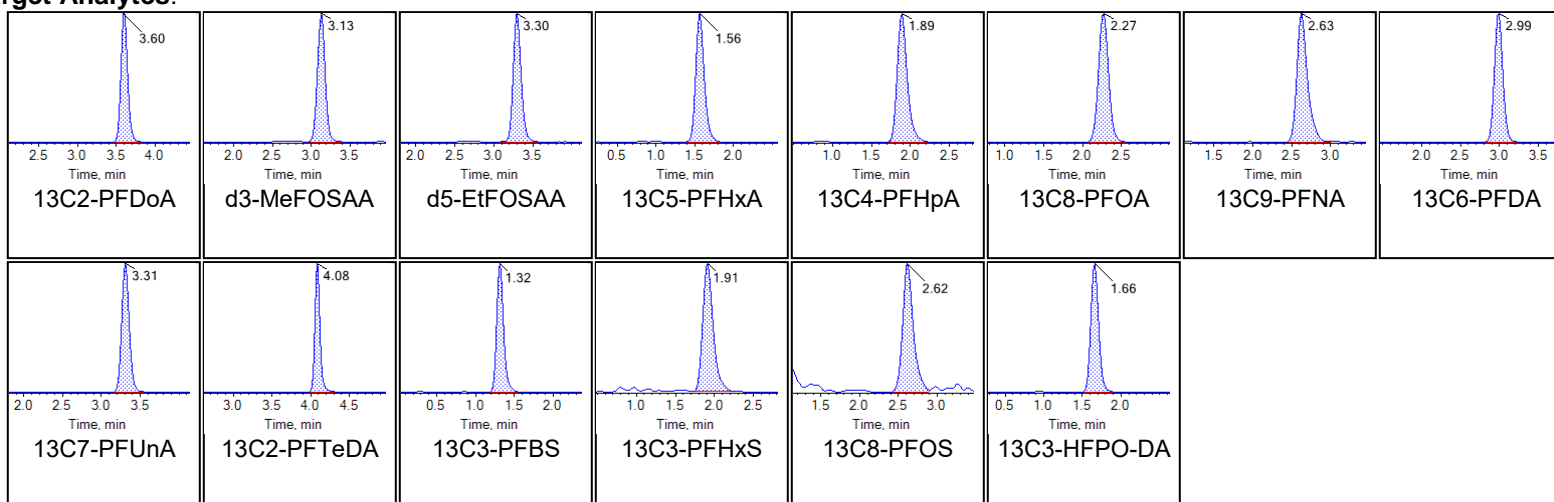
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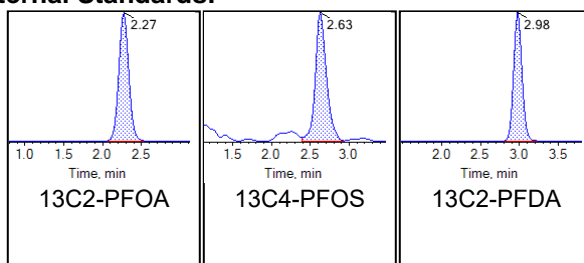
Sample Name	G1768-FS-D(3)	Injection Vial	40
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:45:18 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





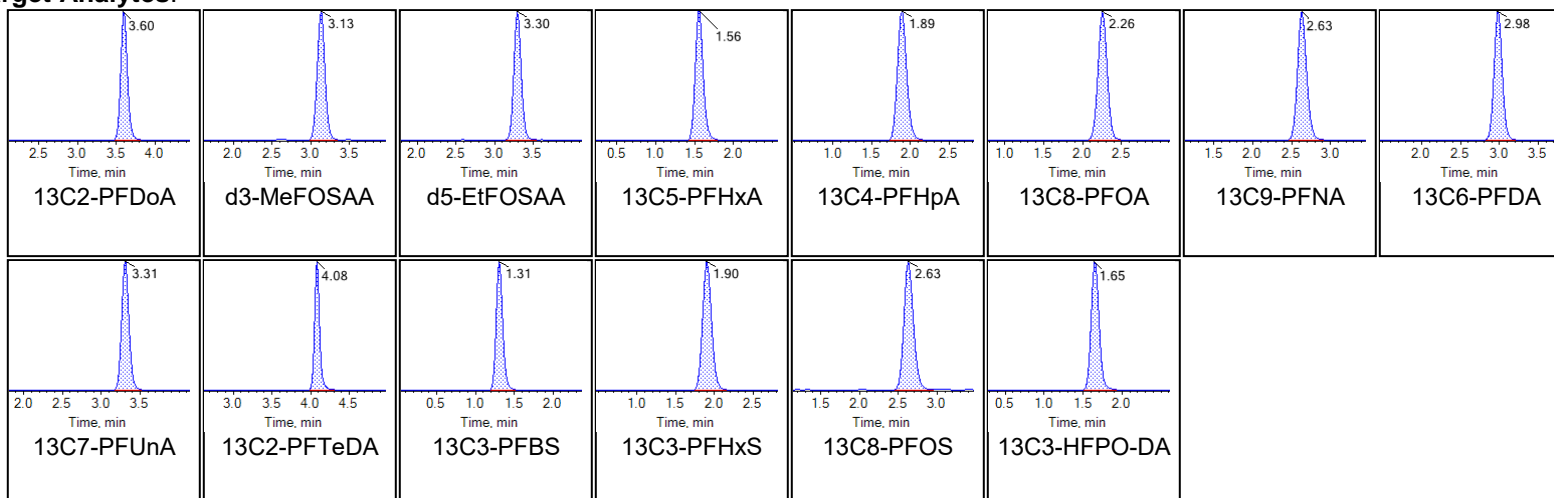
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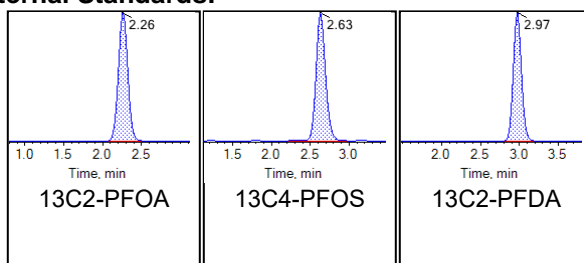
Sample Name	G1768-FS-D(5)	Injection Vial	41
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 2:55:45 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





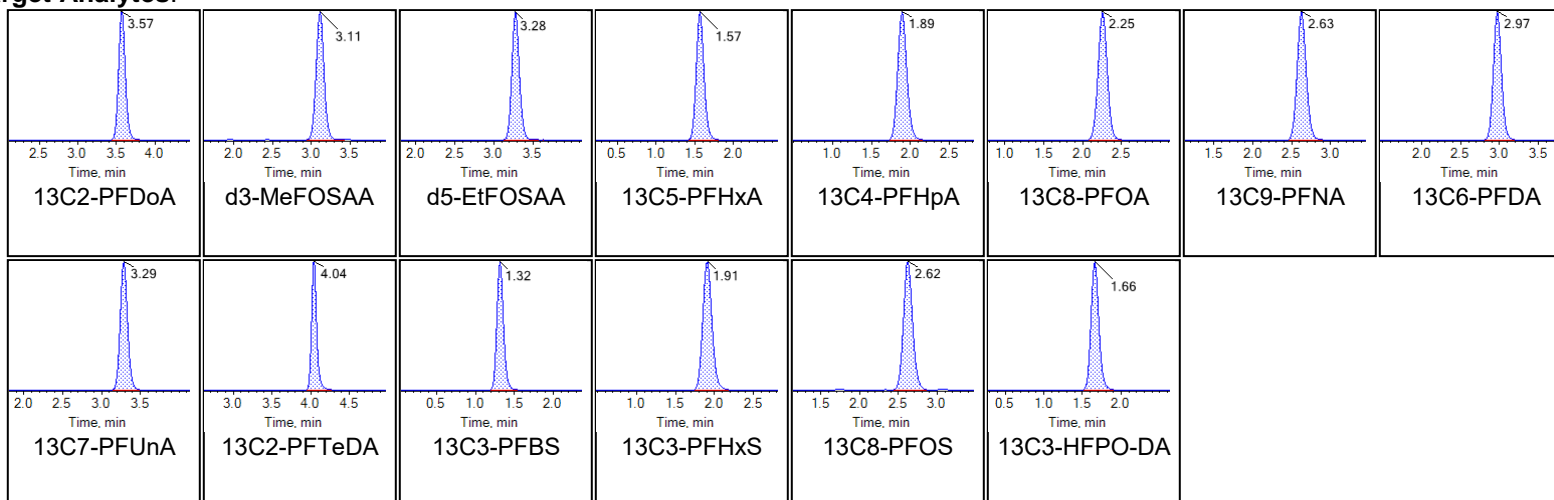
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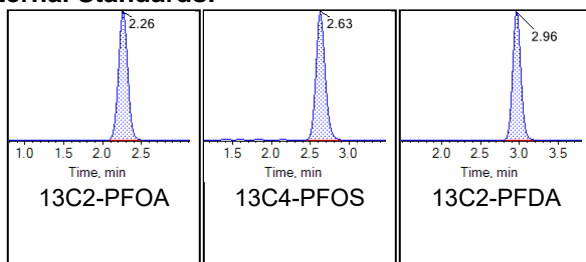
Sample Name	G1768-FS-D(7)	Injection Vial	42
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:06:13 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





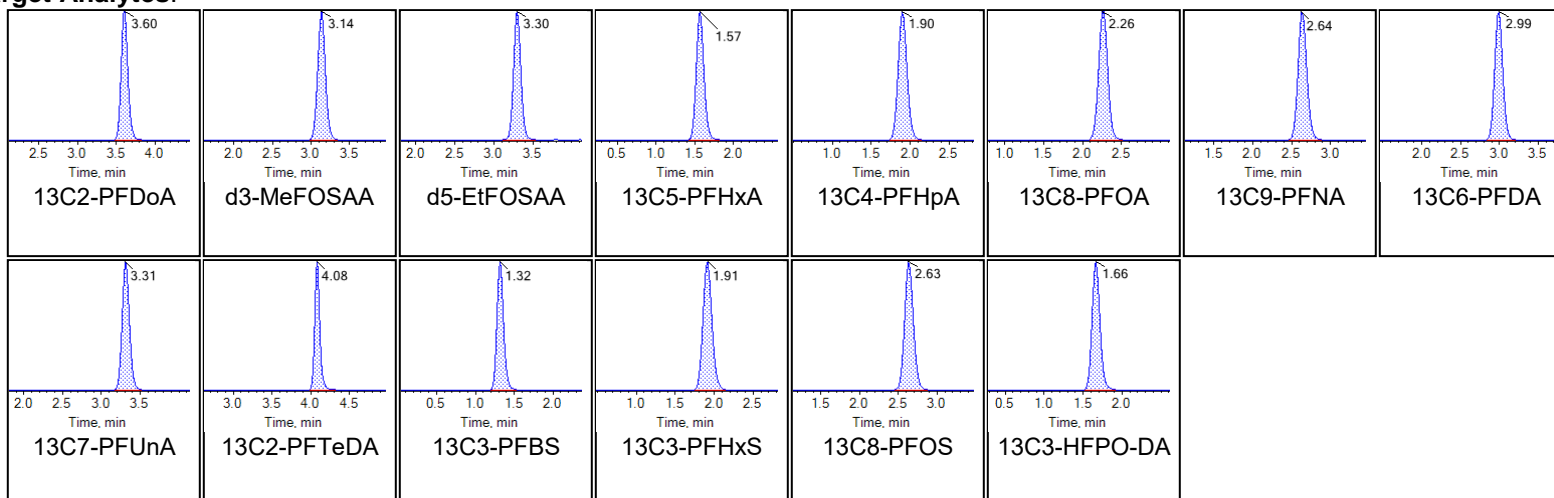
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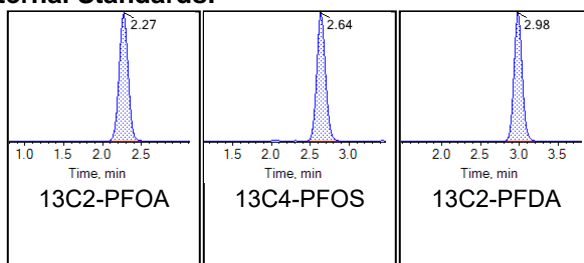
Sample Name	G1768-FS-D(9)	Injection Vial	43
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:16:41 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





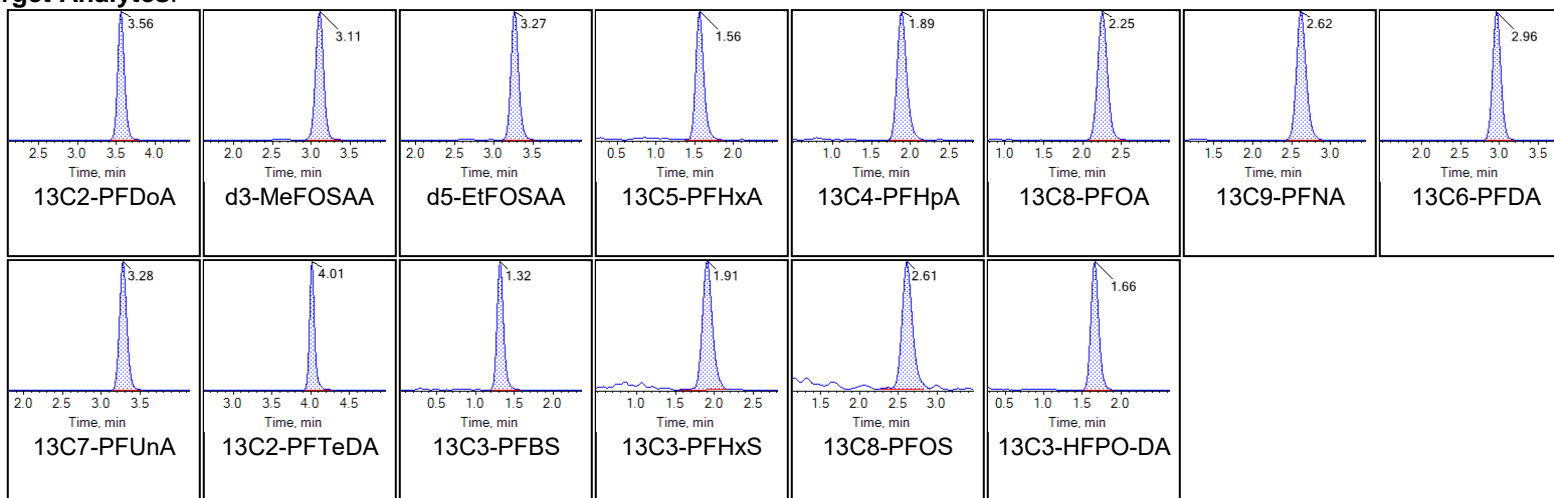
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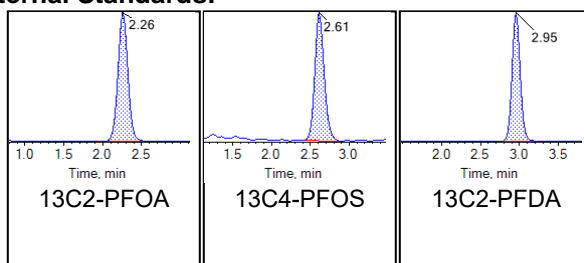
Sample Name	G1773-FS(0)	Injection Vial	45
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:37:38 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





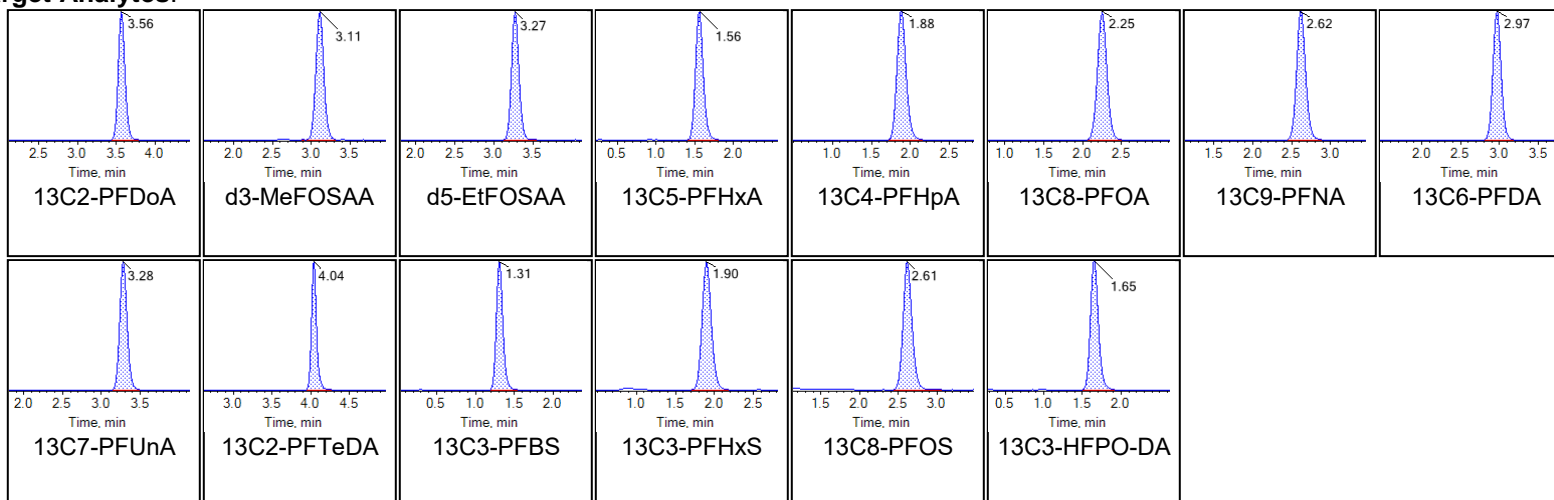
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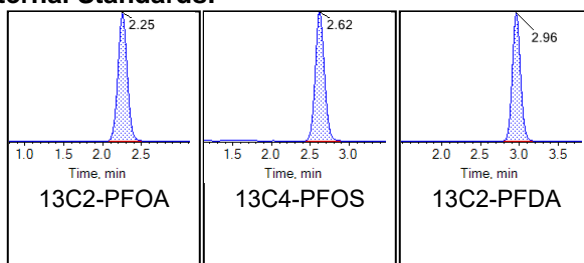
Sample Name	G1773-FS-D(3)	Injection Vial	46
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:48:07 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





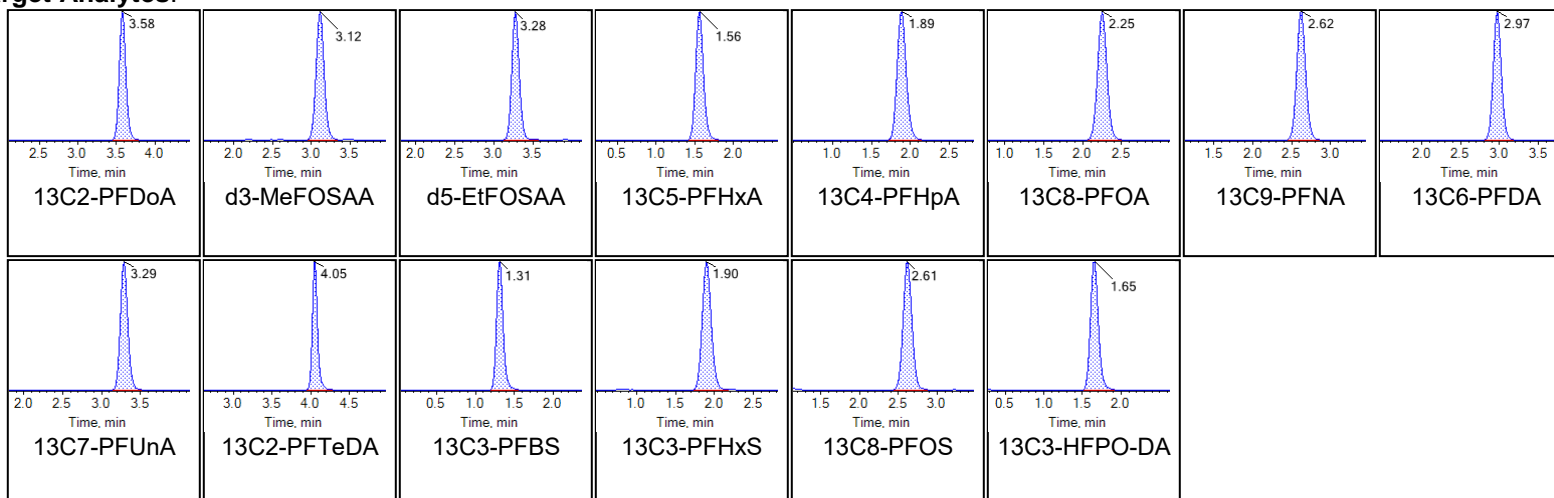
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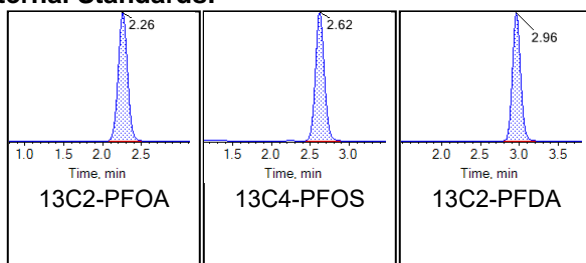
Sample Name	G1773-FS-D(5)	Injection Vial	47
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 3:58:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





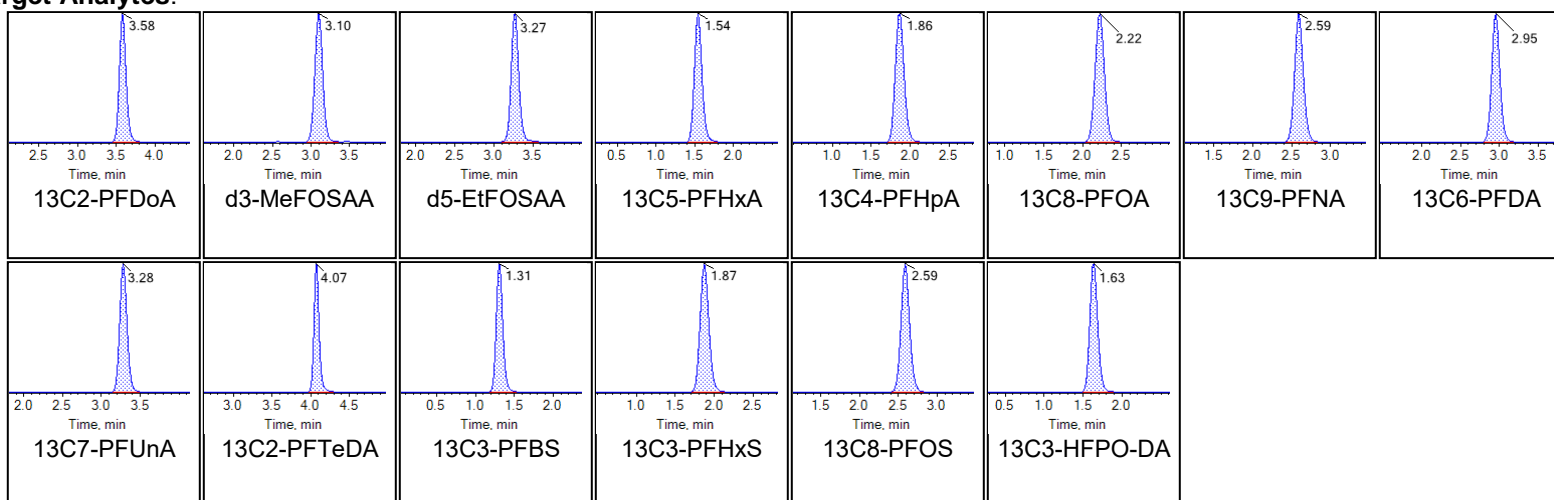
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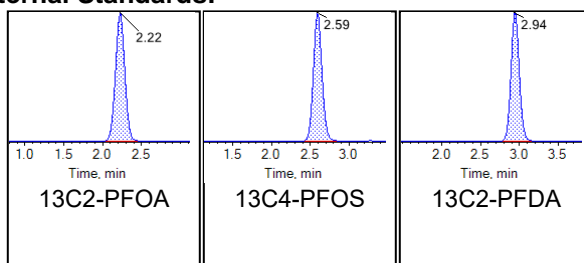
Sample Name	LE77 CCV	Injection Vial	49
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:19:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





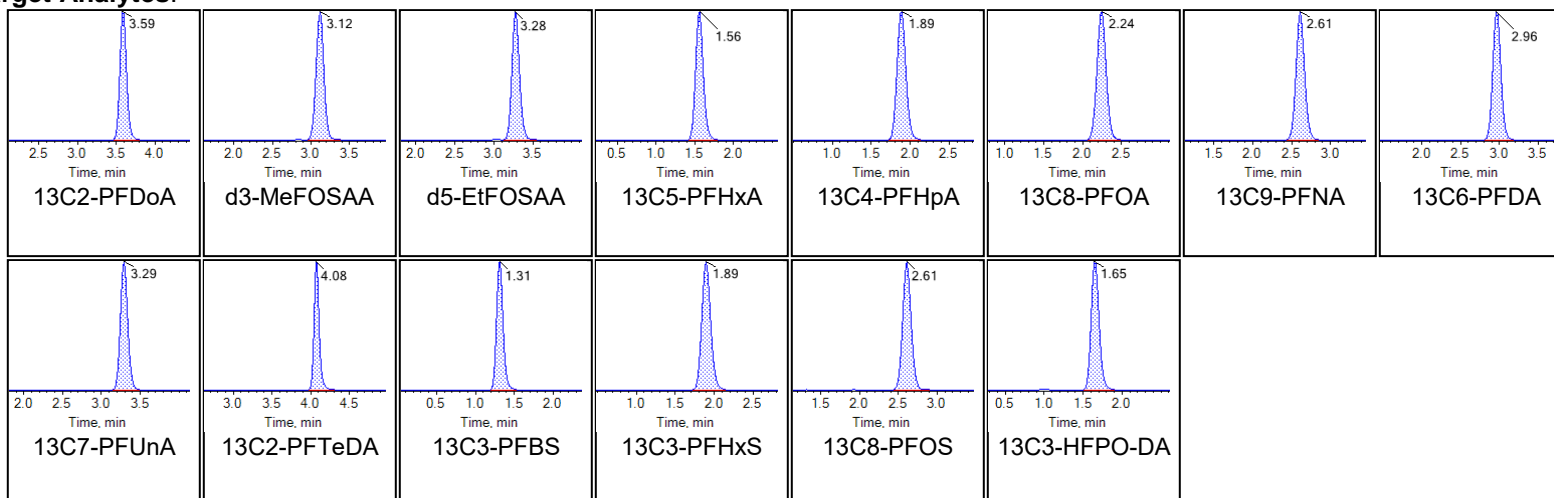
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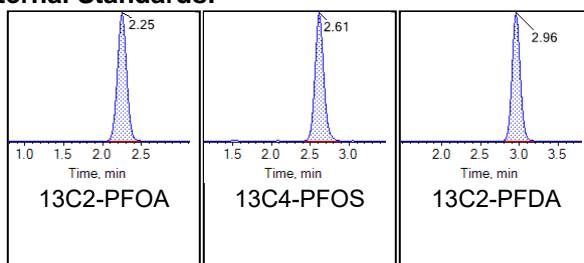
Sample Name	G1774-FS(0)	Injection Vial	50
Sample ID	CBD-AOA-EB01-101920-GW	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:30:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





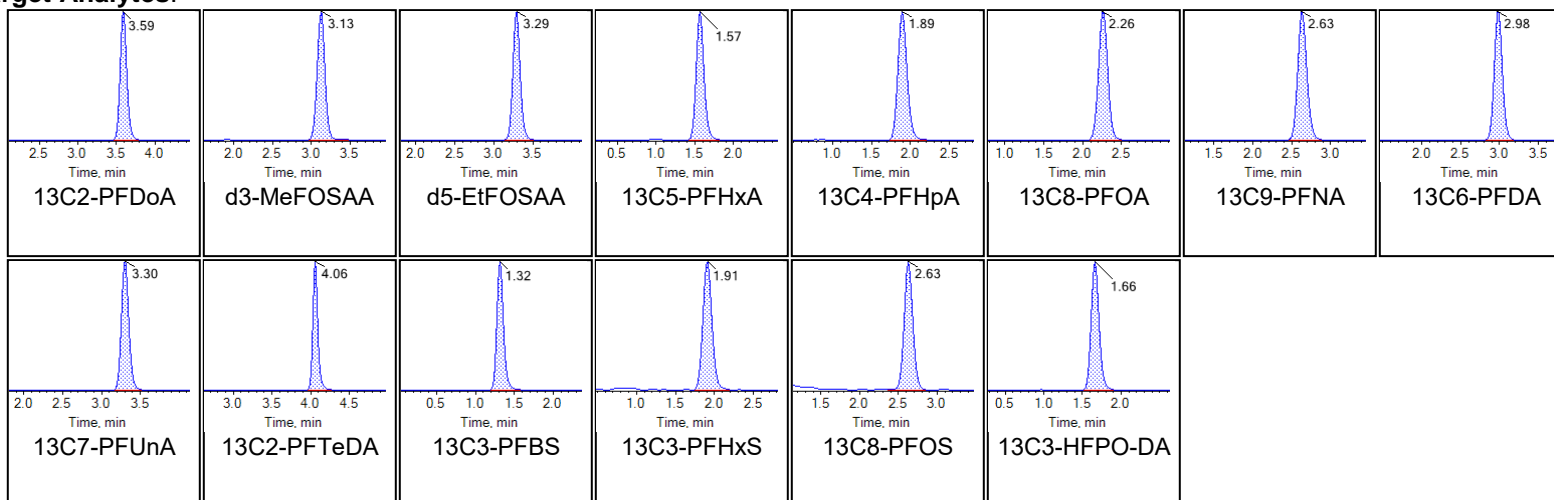
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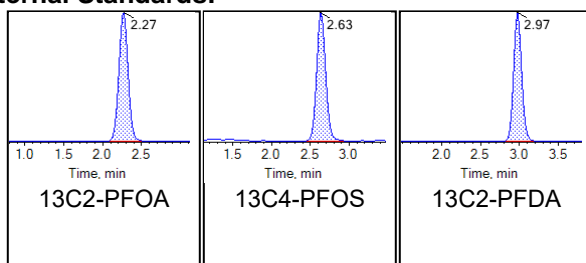
Sample Name	G1775-FS(0)	Injection Vial	51
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:40:29 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





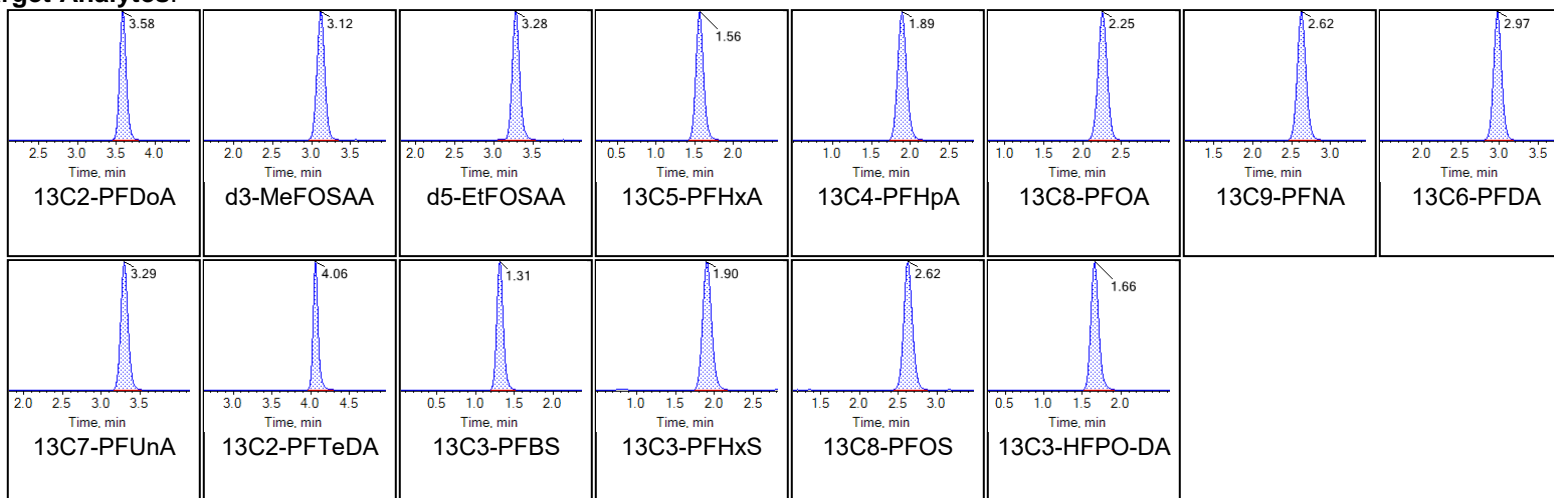
Chromatogram Report

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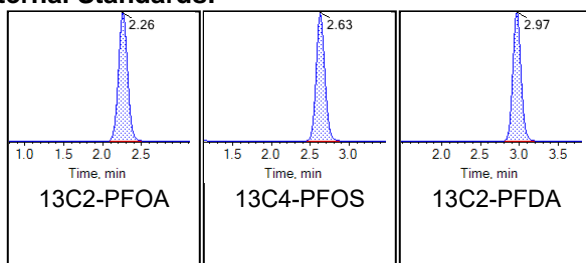
Sample Name	G1775-FS-D(3)	Injection Vial	52
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 4:50:57 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





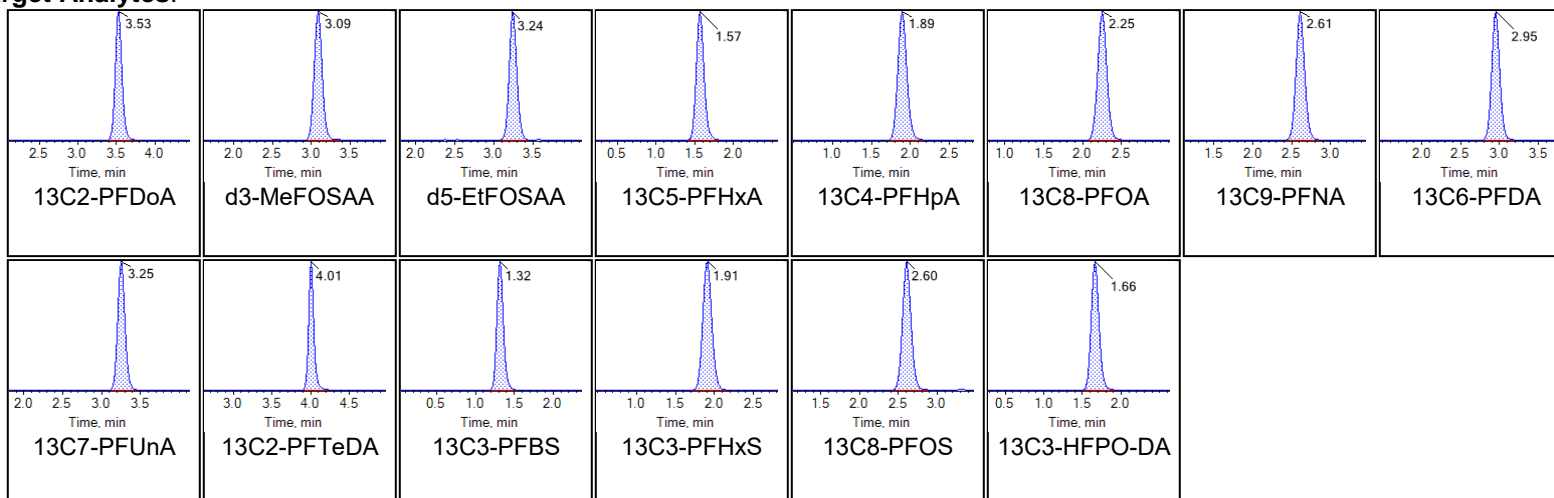
Chromatogram Report

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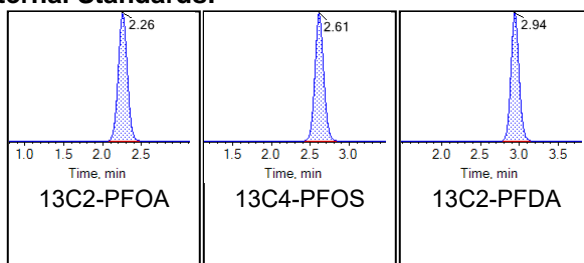
Sample Name	LE76 CCV	Injection Vial	1
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:22:20 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





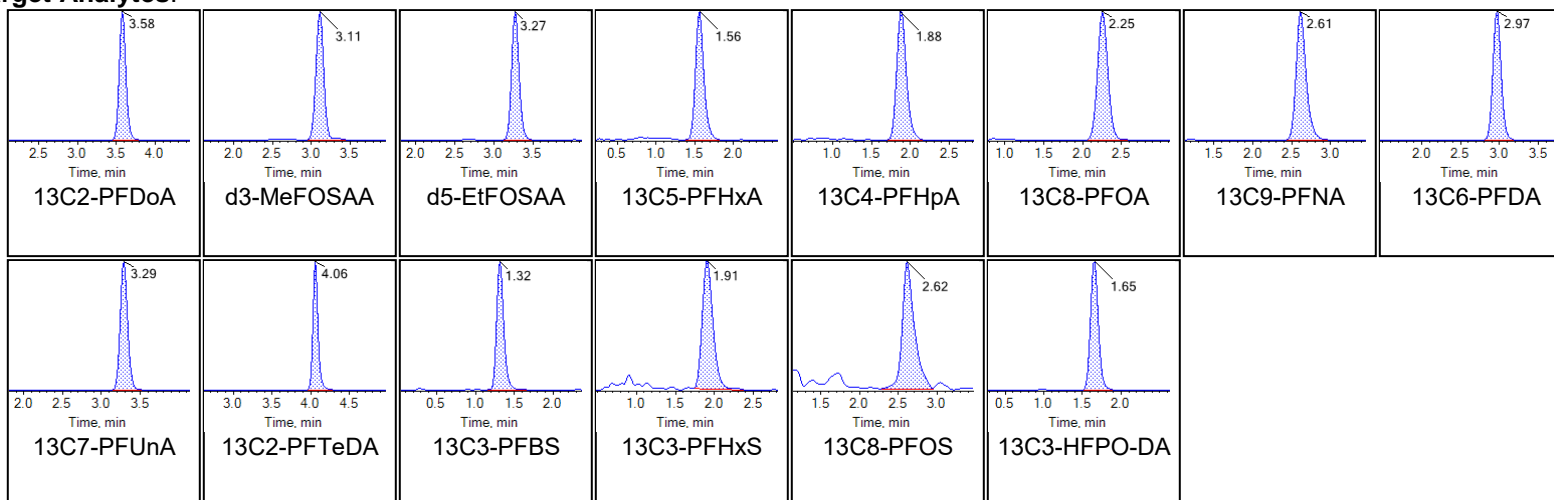
Chromatogram Report

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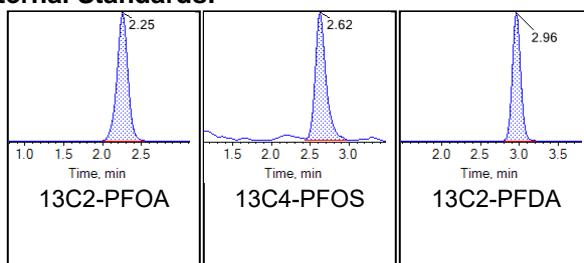
Sample Name	G1769-FS(0)	Injection Vial	2
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:32:48 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





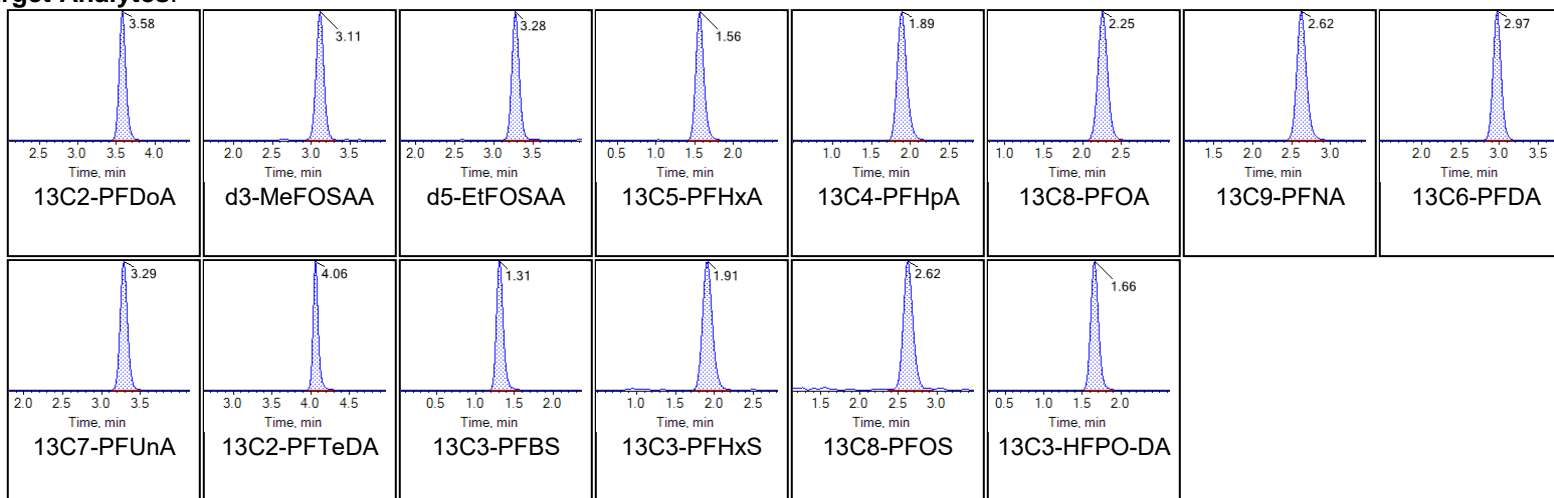
Chromatogram Report

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Printed: 13/11/2020 3:42:47 PM

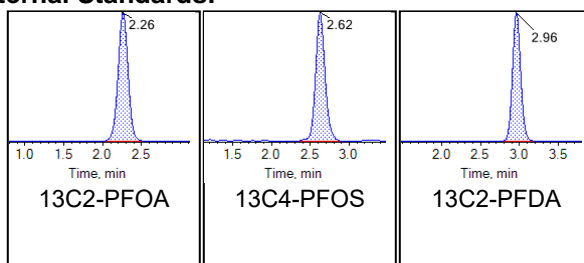
Sample Name	G1769-FS-D(3)	Injection Vial	3
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 5:43:16 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





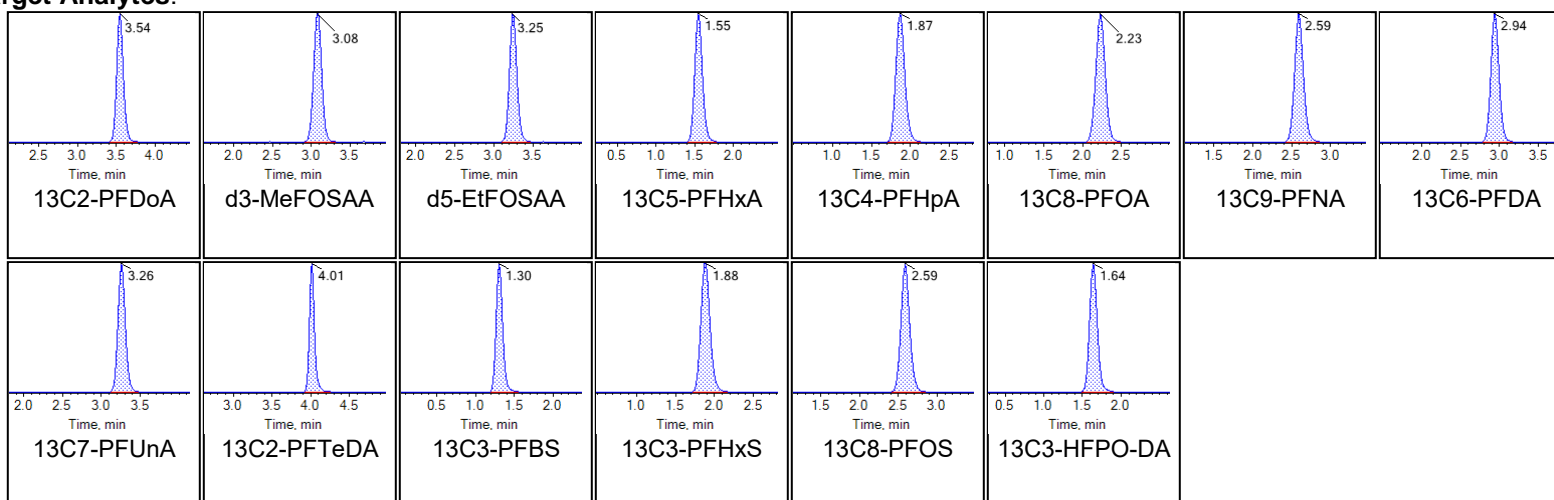
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 3:42:47 PM

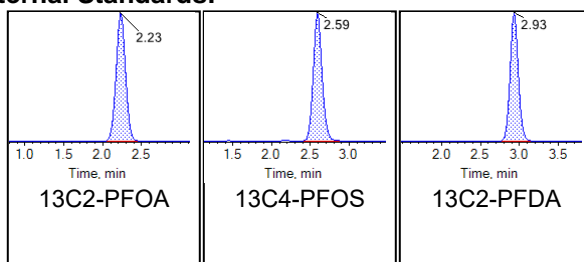
Sample Name	G1769-FS-D(7)	Injection Vial	5
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:04:16 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





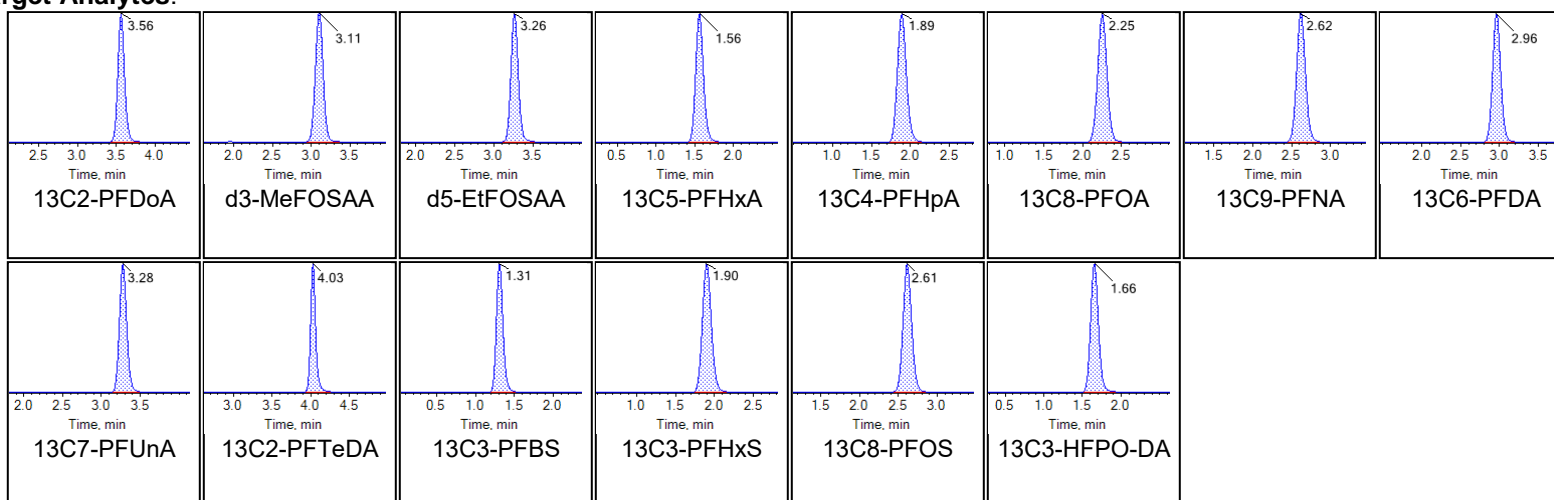
Chromatogram Report

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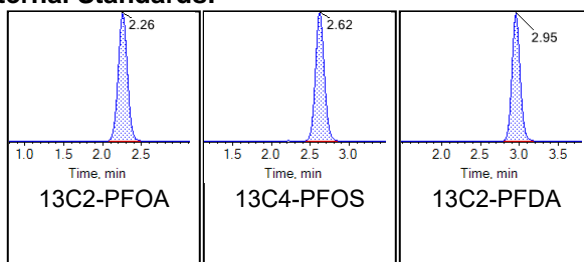
Sample Name	G1769-FS-D(9)	Injection Vial	6
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:14:44 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





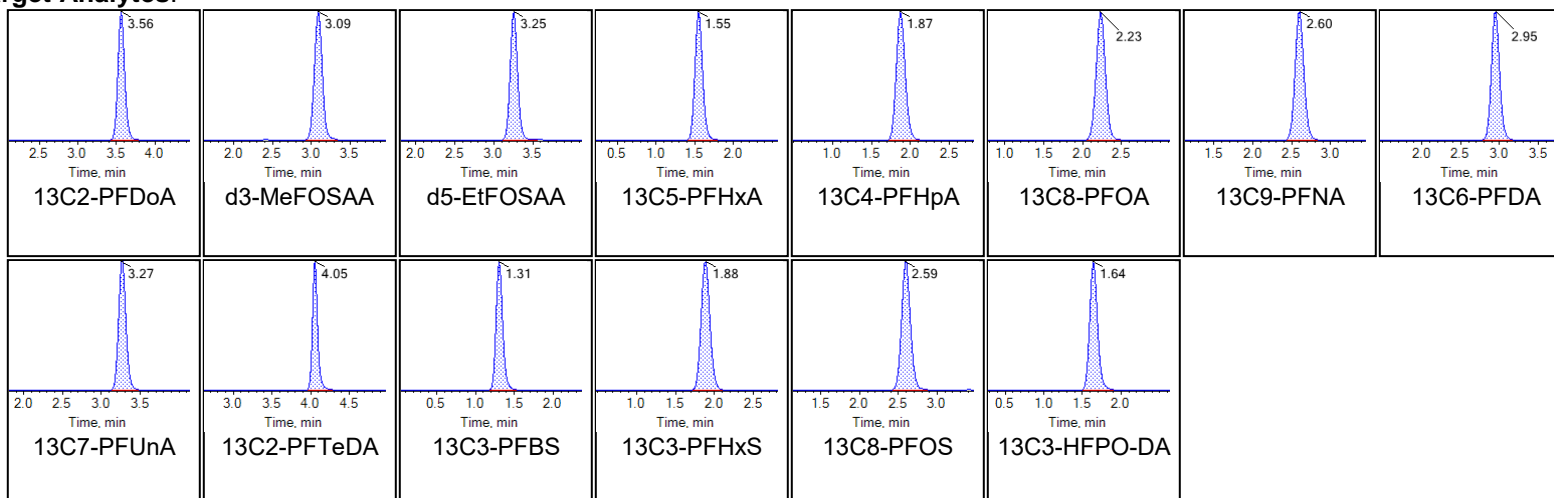
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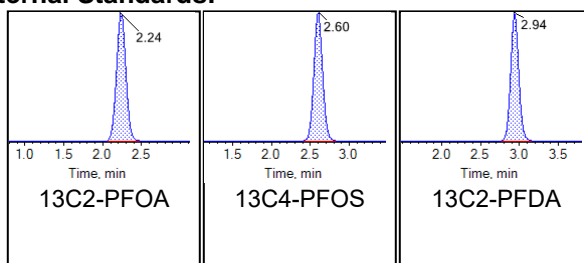
Sample Name	G1769-FS-D(11)	Injection Vial	7
Sample ID	CBD-AOA-MW08-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:25:14 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





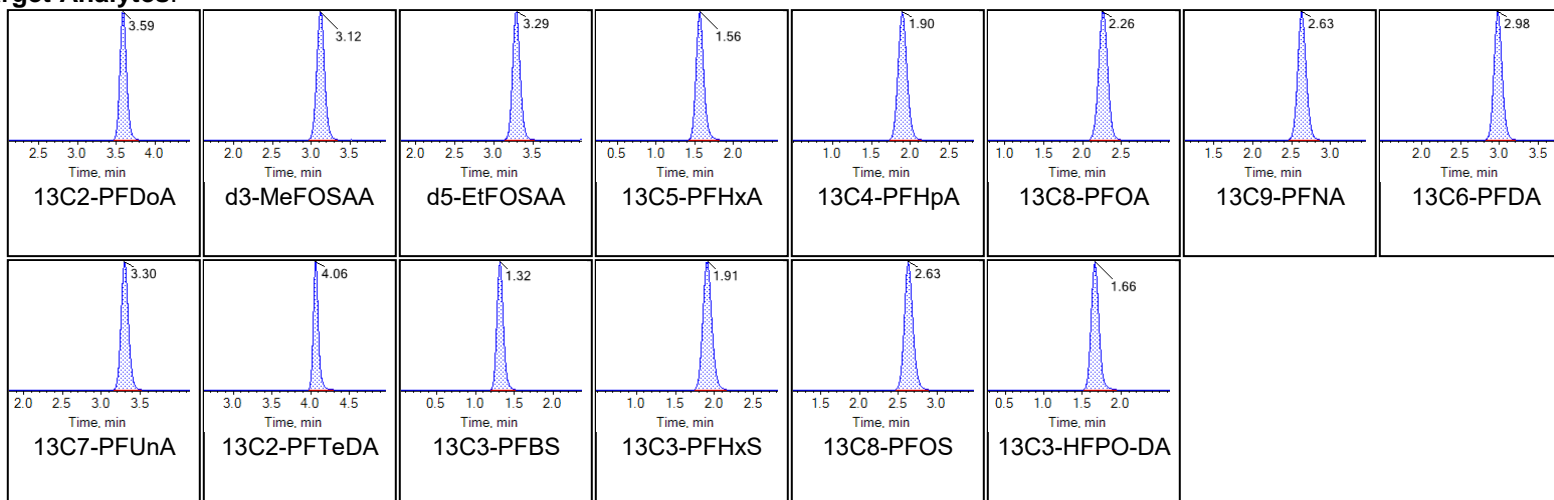
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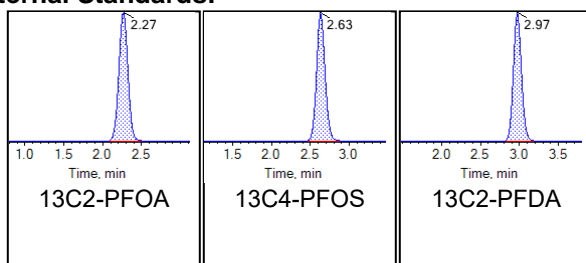
Sample Name	LE77 CCV	Injection Vial	9
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:46:11 AM	Data File	AE_11112020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





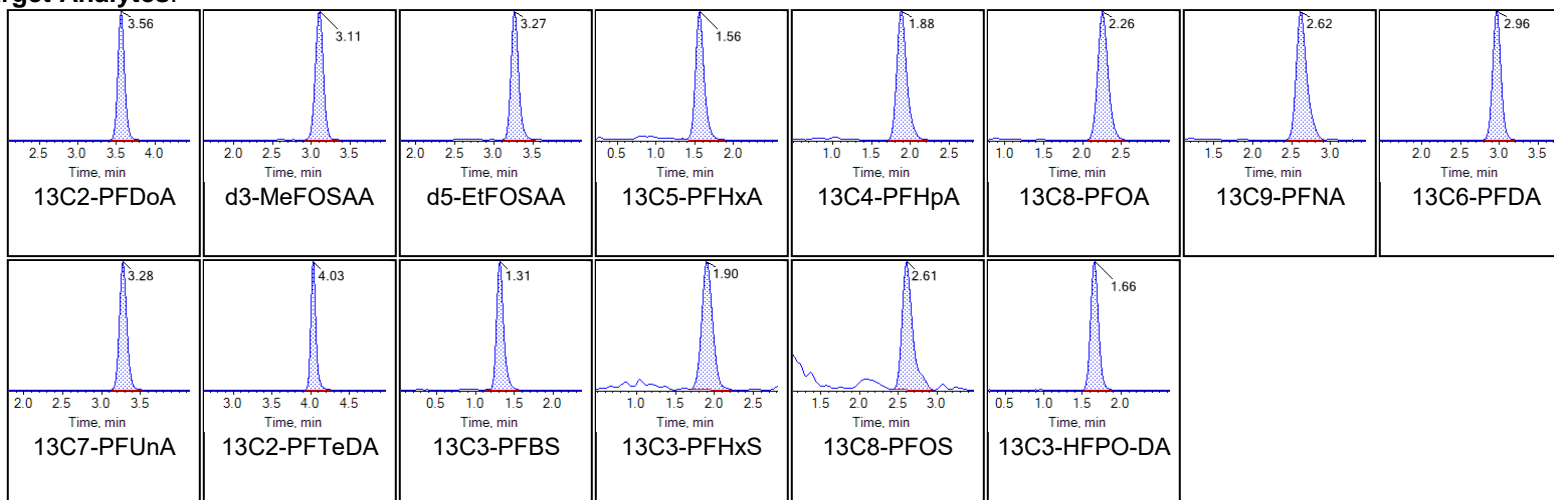
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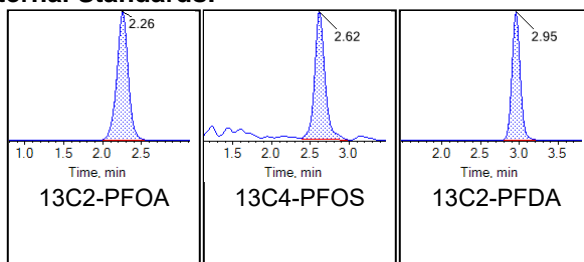
Sample Name	G1770MS-FS(0)	Injection Vial	10
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 6:56:39 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





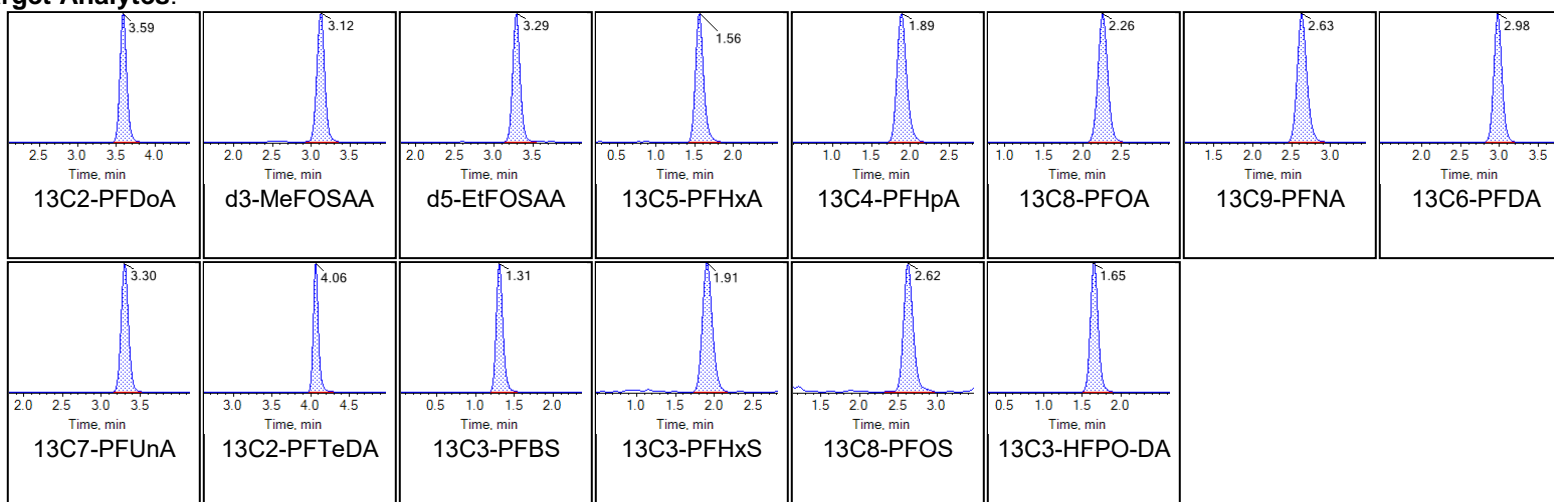
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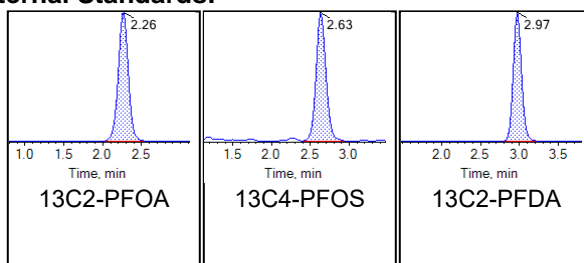
Sample Name	G1770MS-FS-D(3)	Injection Vial	11
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:07:07 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





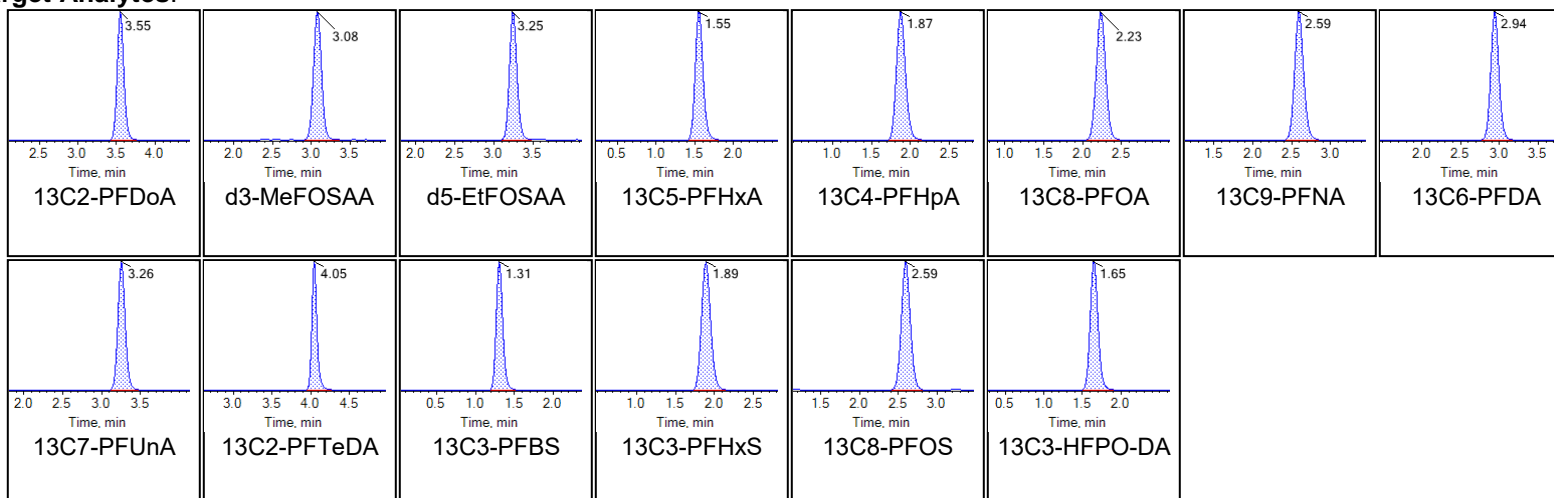
Chromatogram Report

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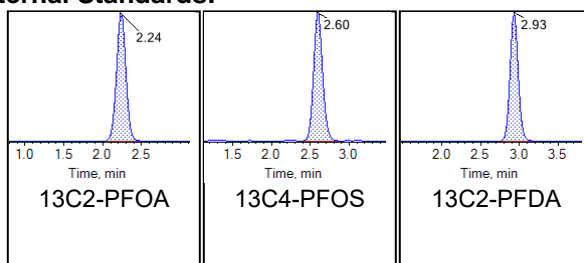
Sample Name	G1770MS-FS-D(7)	Injection Vial	13
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:28:05 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





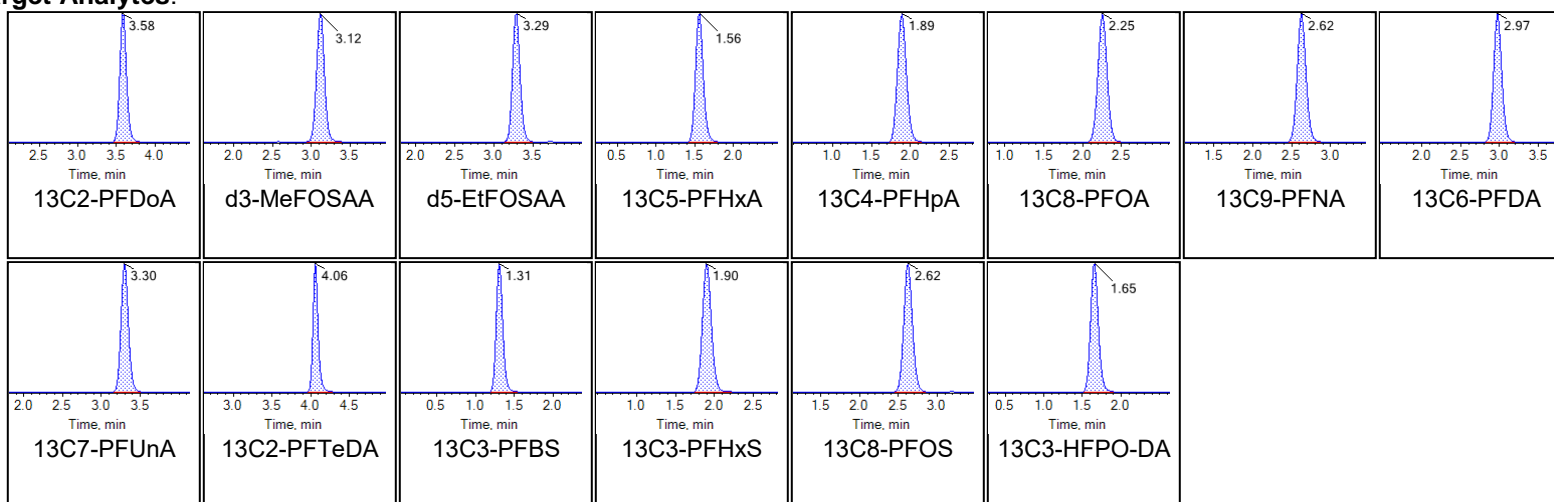
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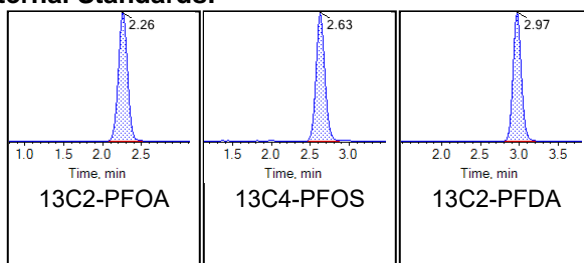
Sample Name	G1770MS-FS-D(9)	Injection Vial	14
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:38:34 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





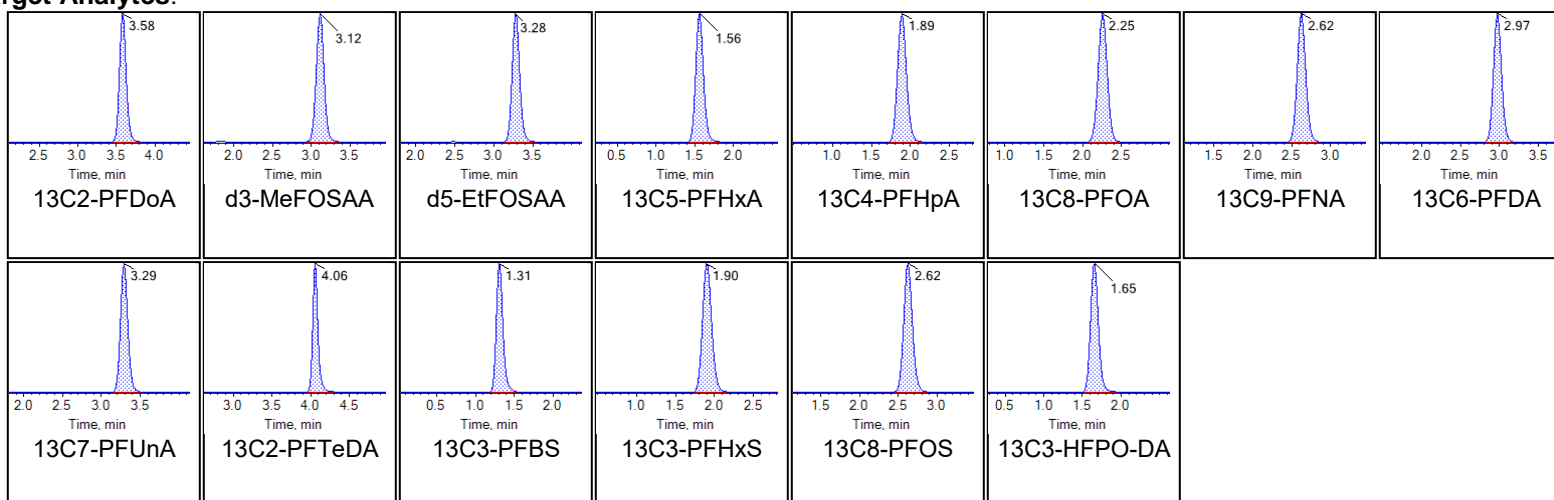
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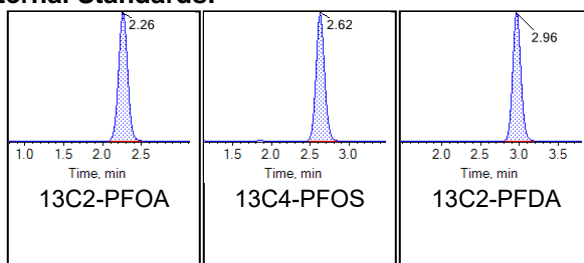
Sample Name	G1770MS-FS-D(11)	Injection Vial	15
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 7:49:03 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





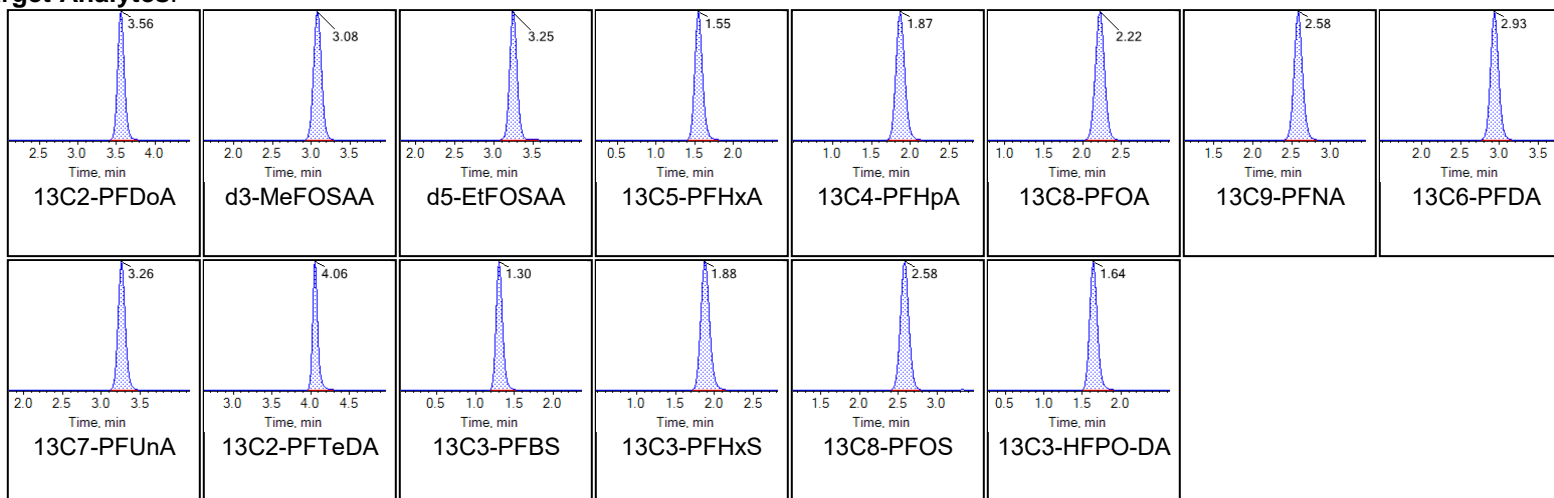
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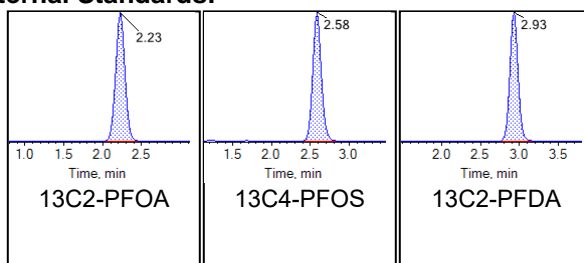
Sample Name	LE76 CCV	Injection Vial	17
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:10:43 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





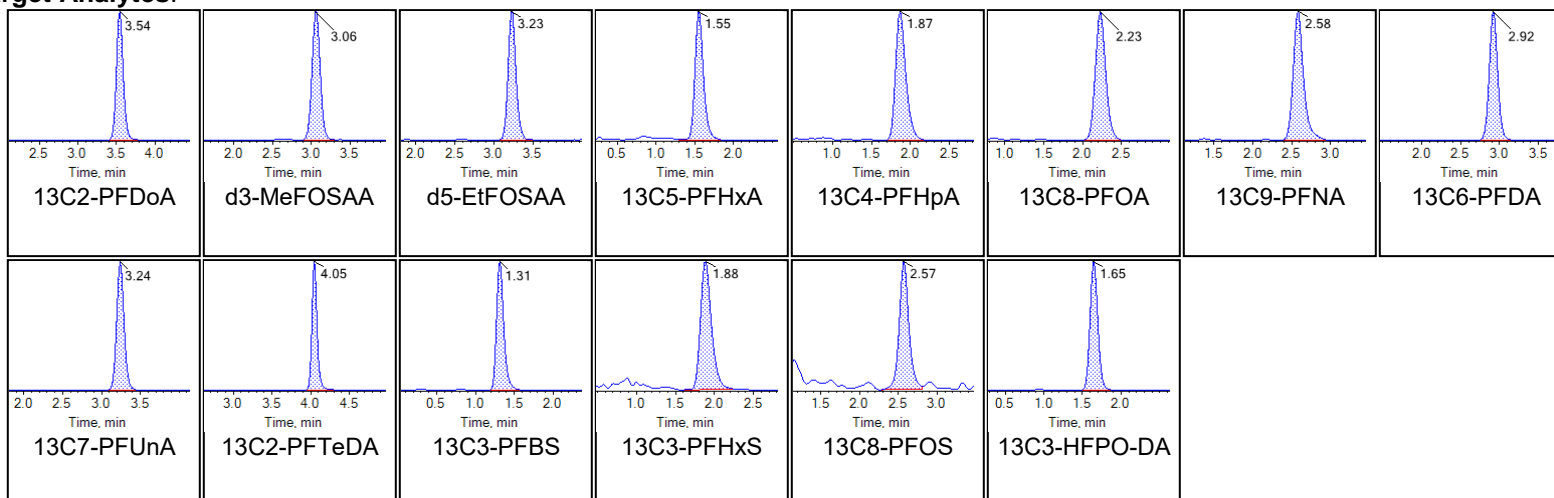
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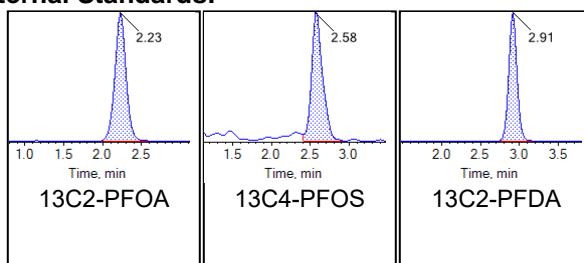
Sample Name	G1771MSD-FS(0)	Injection Vial	18
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:21:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





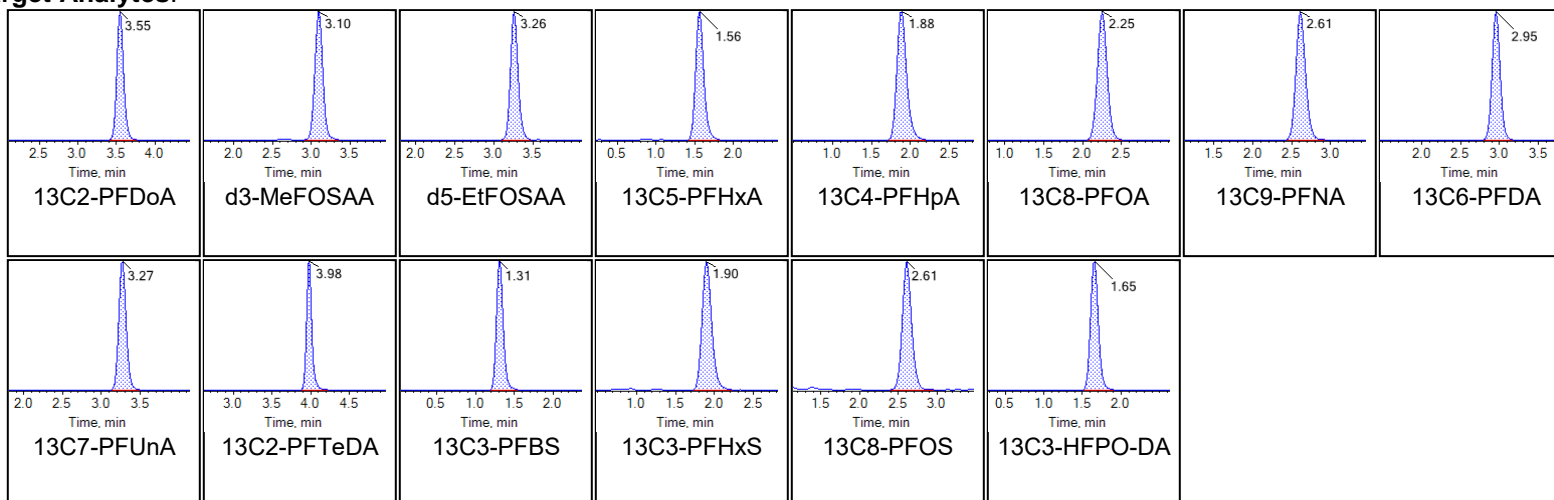
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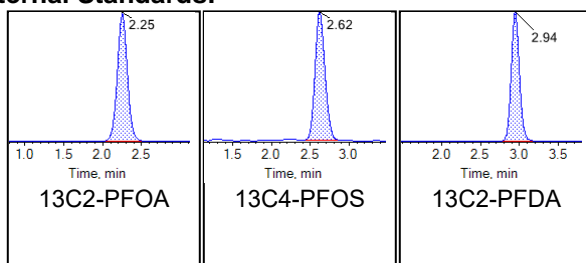
Sample Name	G1771MSD-FS-D(3)	Injection Vial	19
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:31:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





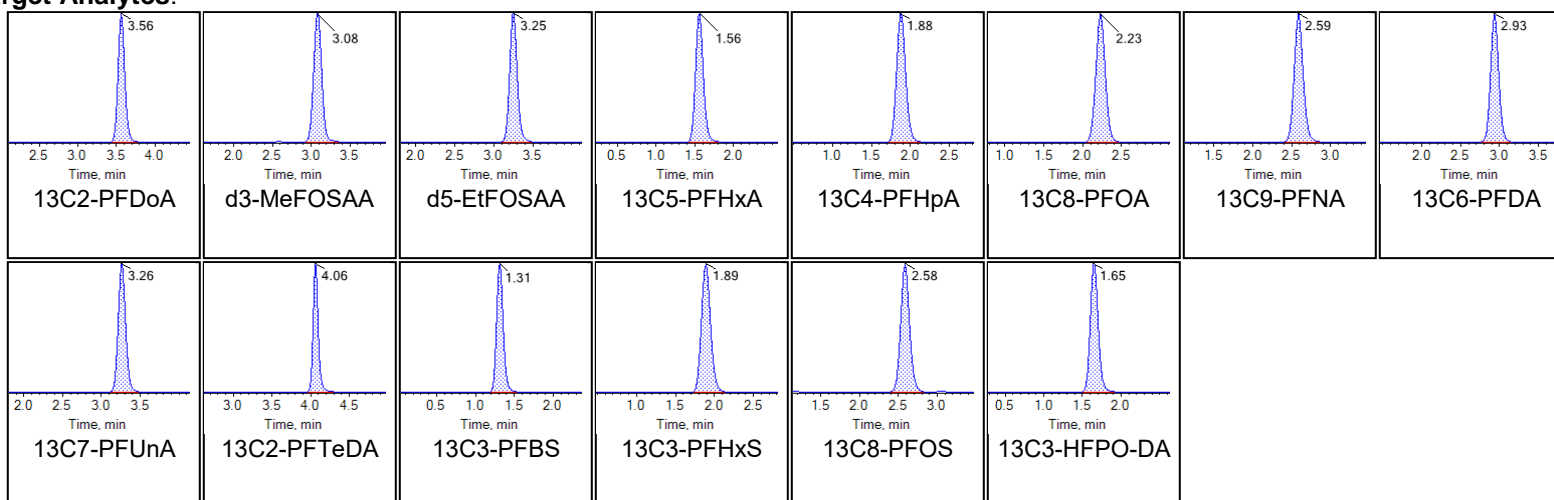
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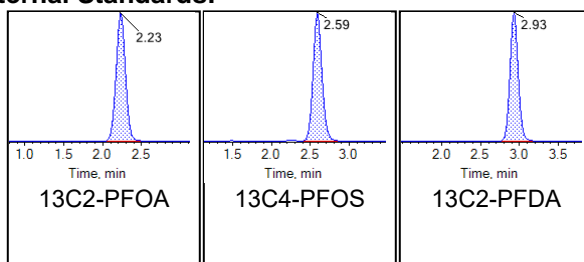
Sample Name	G1771MSD-FS-D(7)	Injection Vial	21
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 8:52:40 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





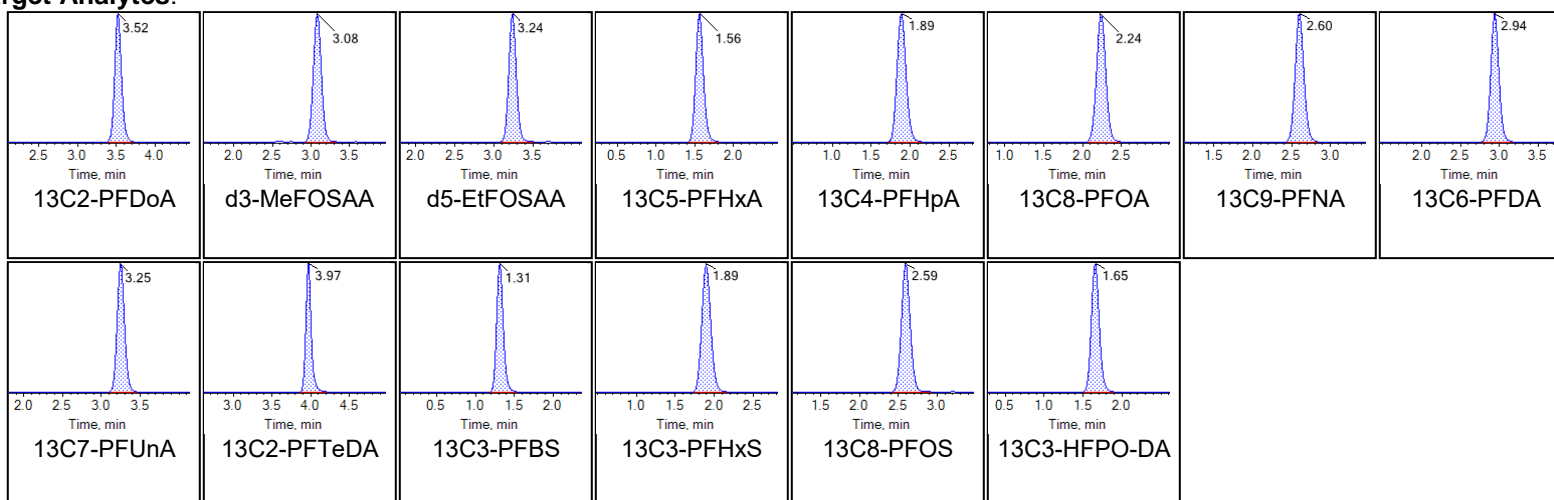
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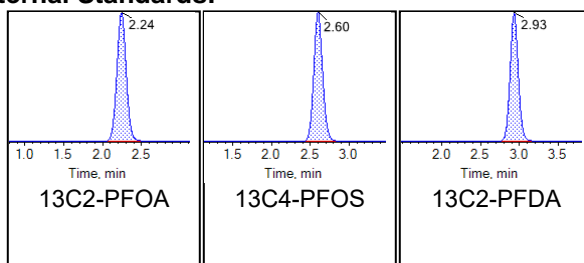
Sample Name	G1771MSD-FS-D(9)	Injection Vial	22
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:03:11 AM	Data File	AE_11112020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





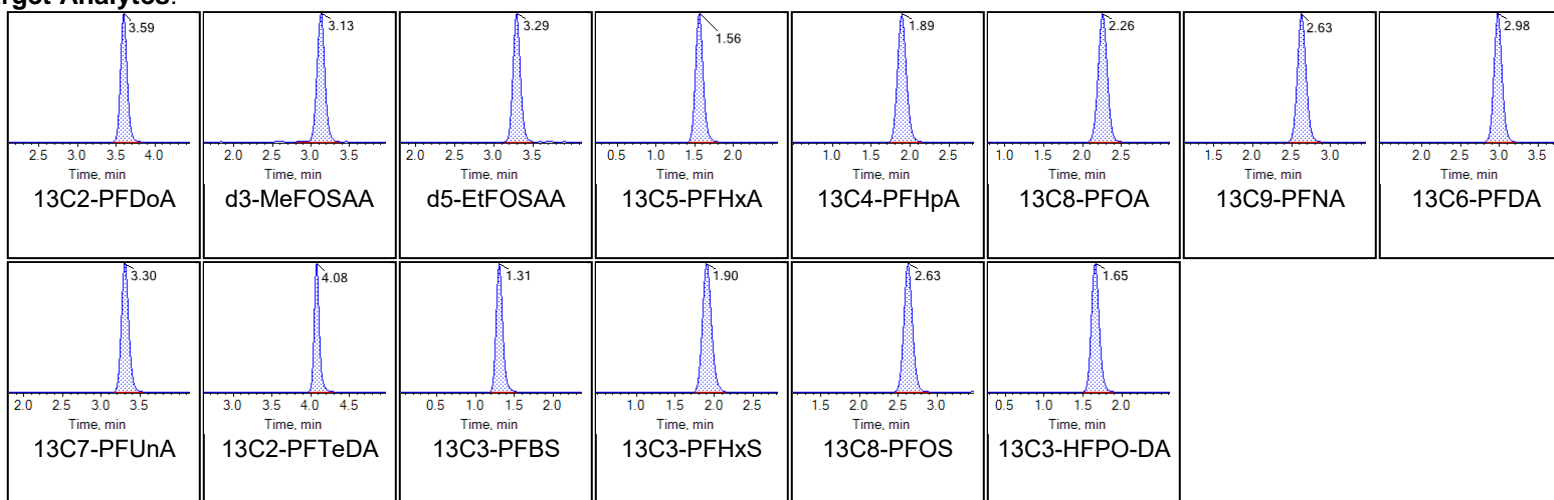
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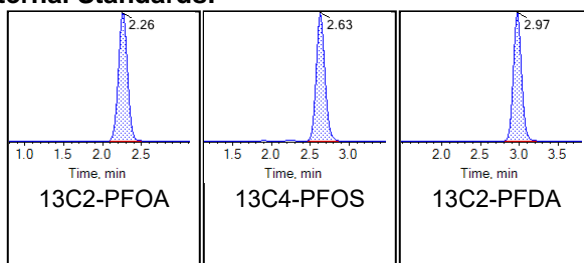
Sample Name	G1771MSD-FS-D(11)	Injection Vial	23
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:13:41 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





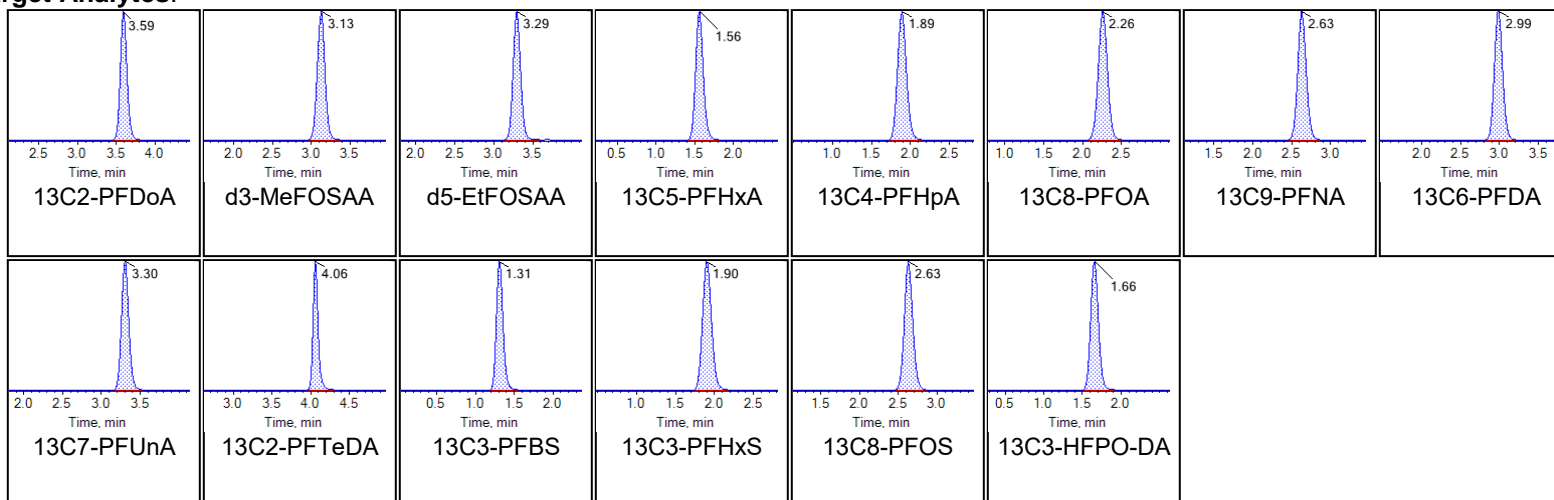
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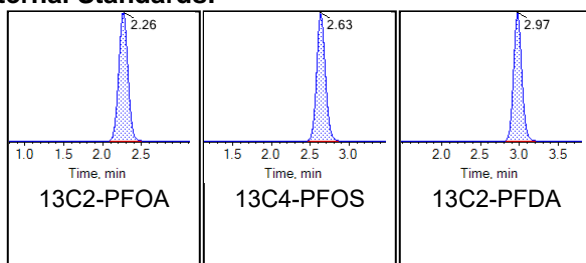
Sample Name	LE77 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:34:40 AM	Data File	AE_11112020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





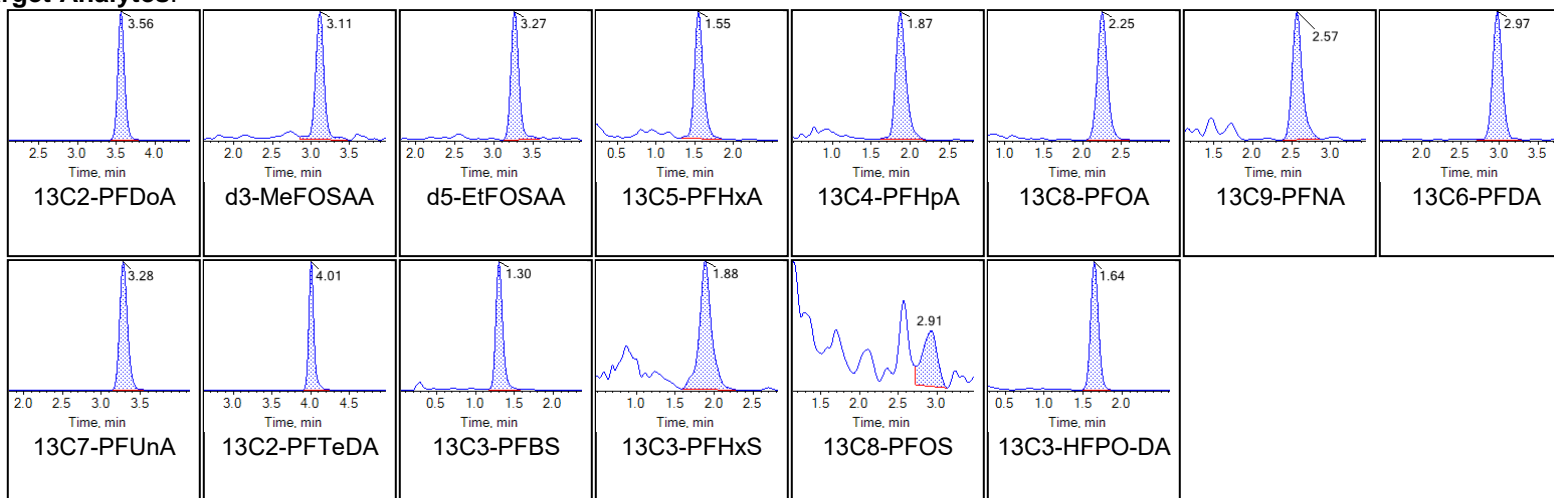
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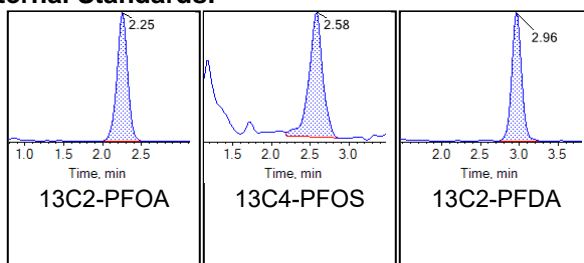
Sample Name	G1772-FS(0)	Injection Vial	26
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:45:09 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





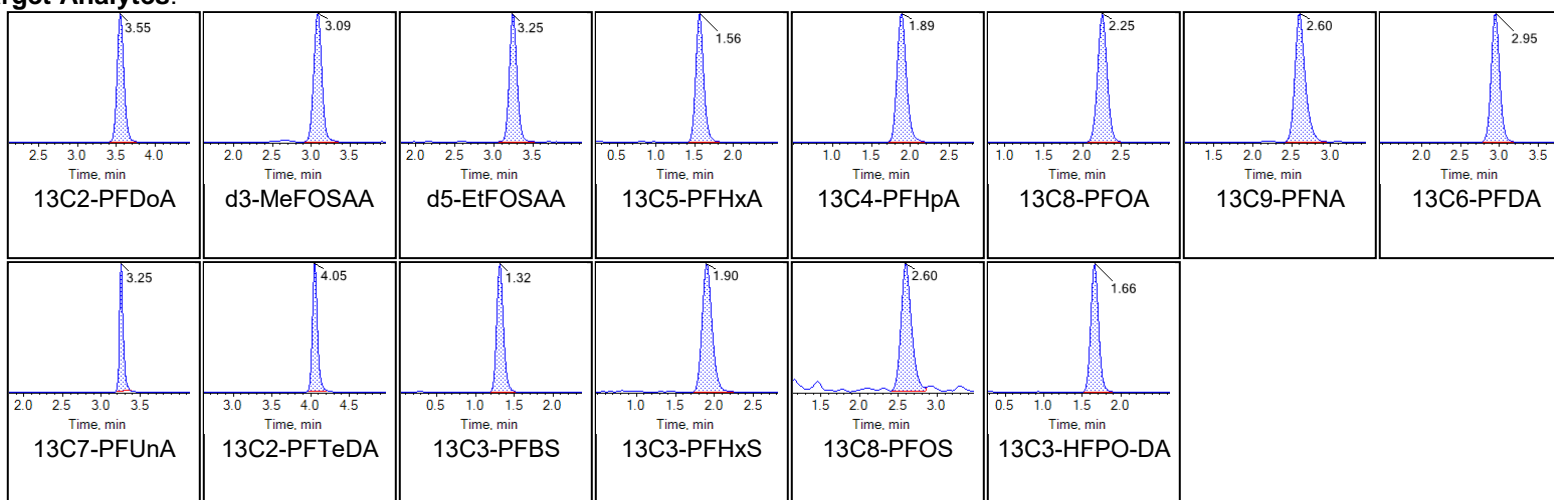
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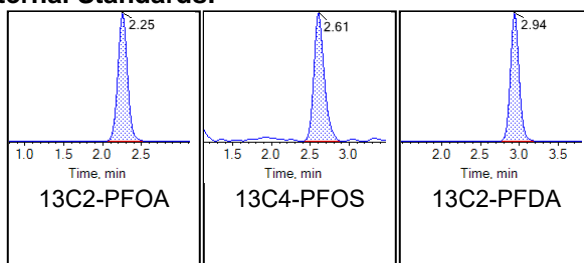
Sample Name	G1772-FS-D(3)	Injection Vial	27
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 9:55:37 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





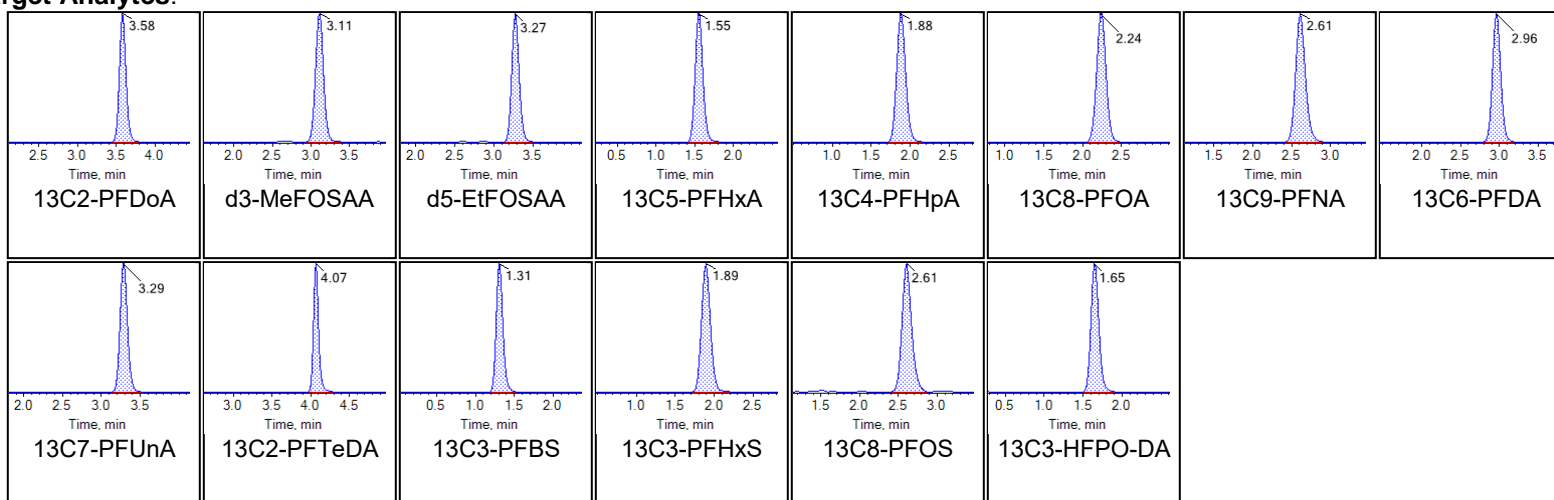
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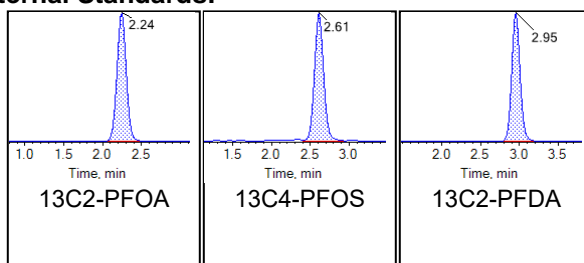
Sample Name	G1772-FS-D(7)	Injection Vial	29
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:16:35 AM	Data File	AE_11112020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





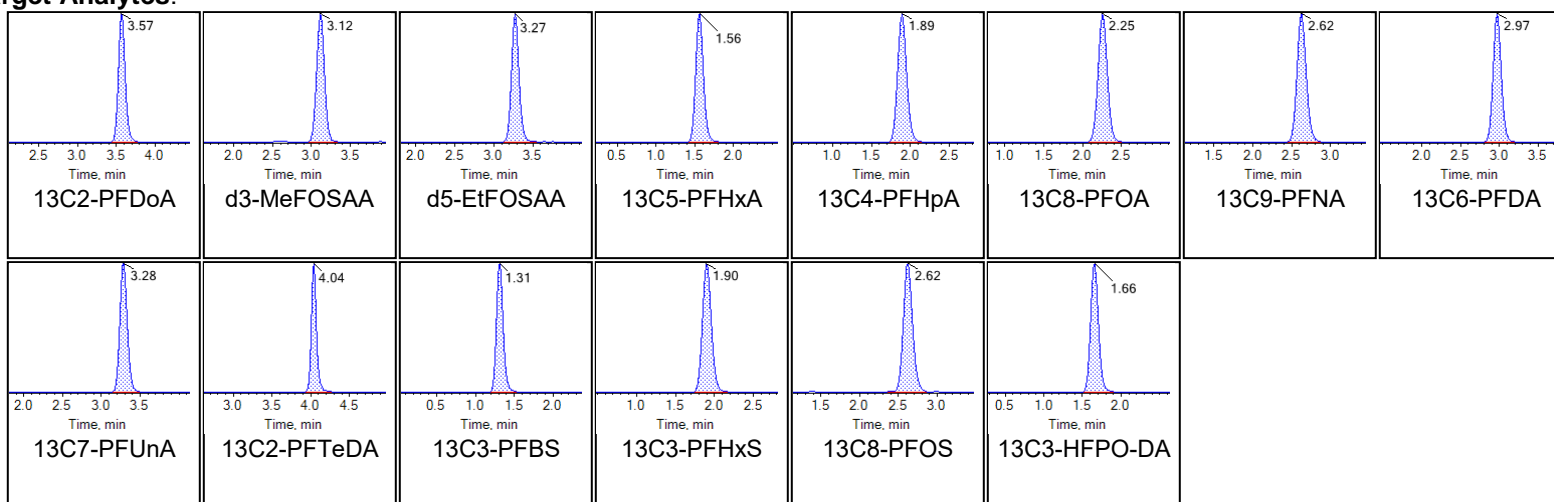
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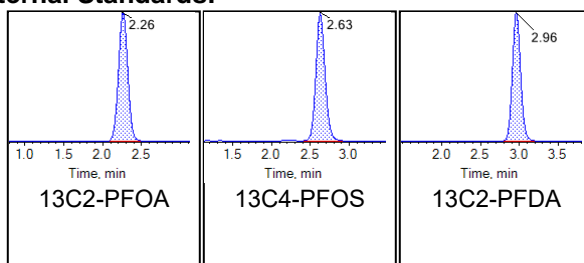
Sample Name	G1772-FS-D(9)	Injection Vial	30
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:27:04 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





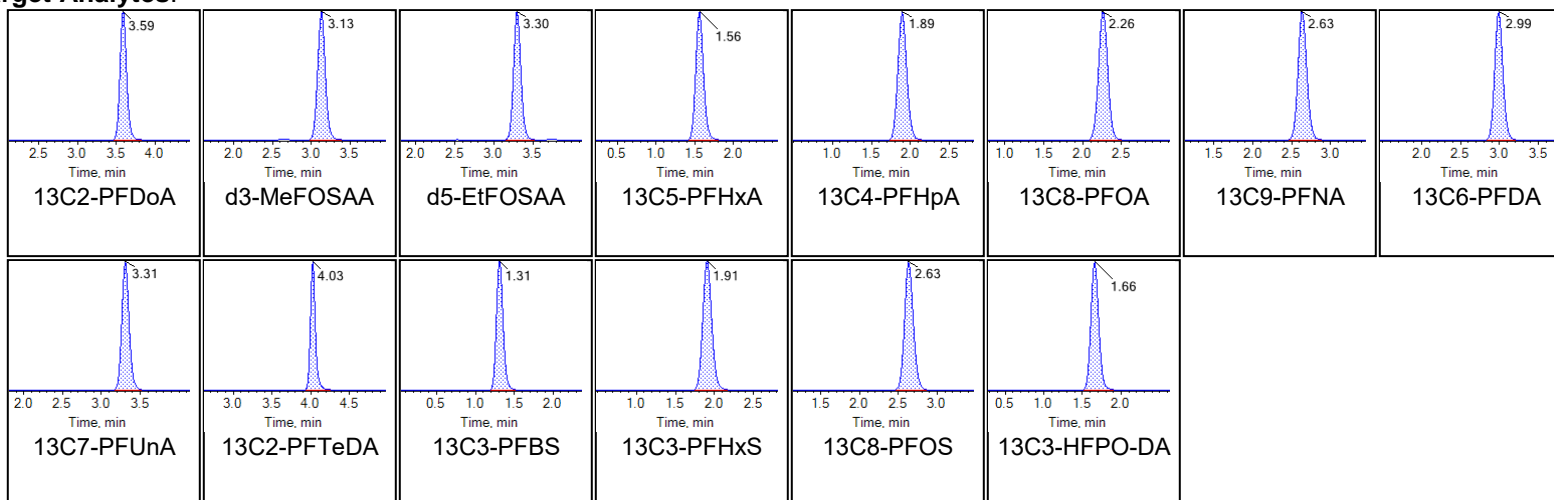
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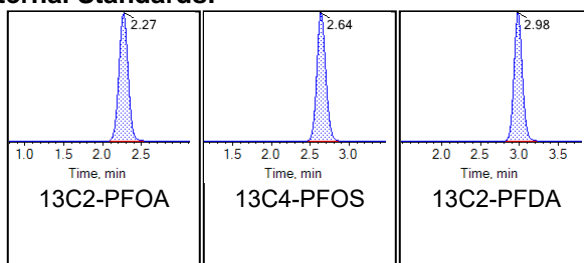
Sample Name	G1772-FS-D(11)	Injection Vial	31
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:37:33 AM	Data File	AE_11112020_5-369.wiff
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Chromatograms

Target Analytes:



Internal Standards:





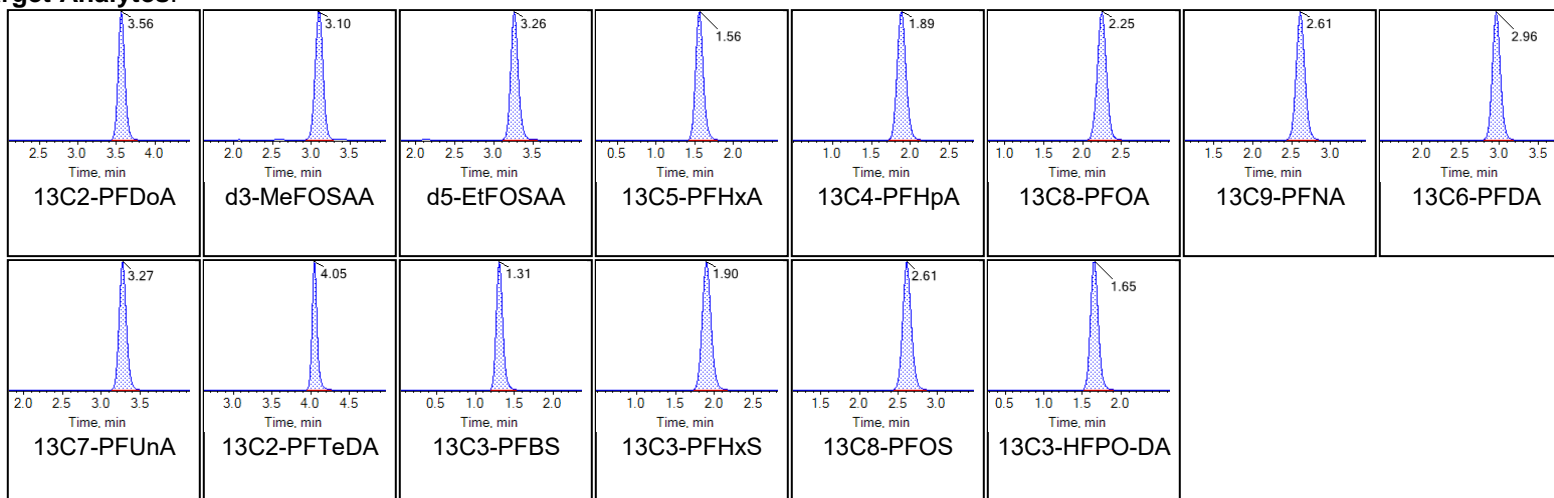
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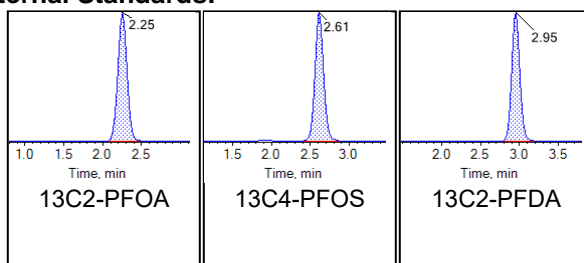
Sample Name	G1772-FS-D(13)	Injection Vial	32
Sample ID	CBD-AOA-MW02-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 10:48:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





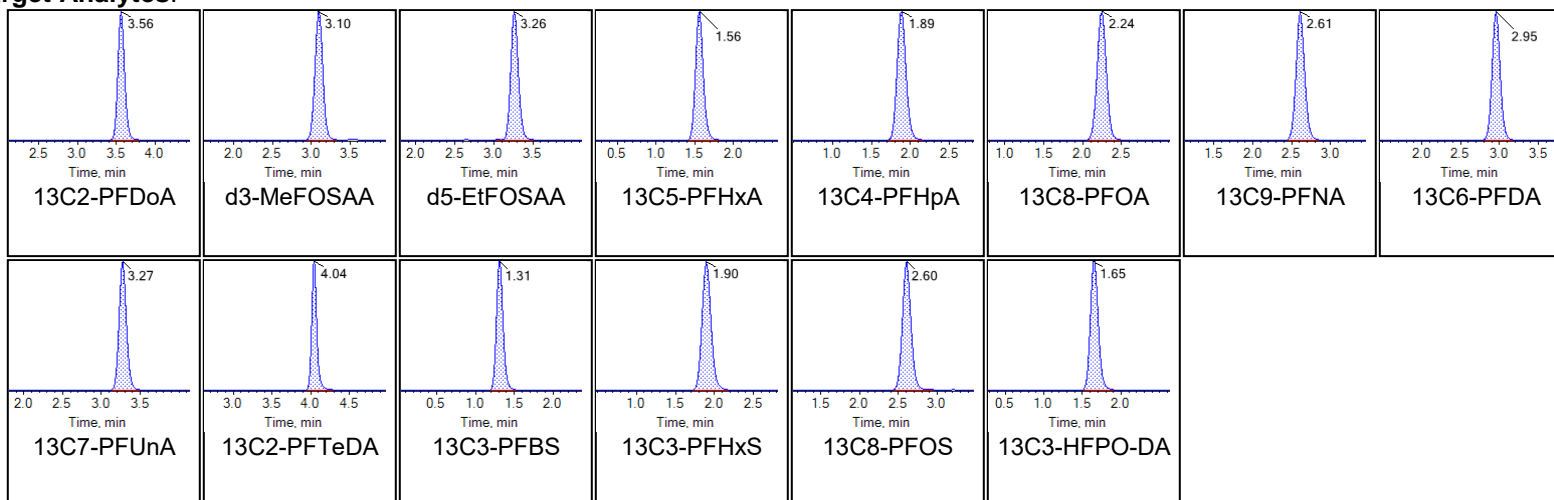
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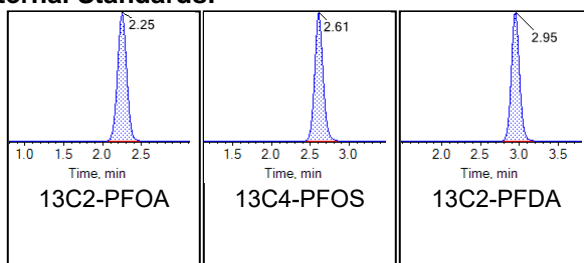
Sample Name	LE76 CCV	Injection Vial	34
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 11:09:02 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





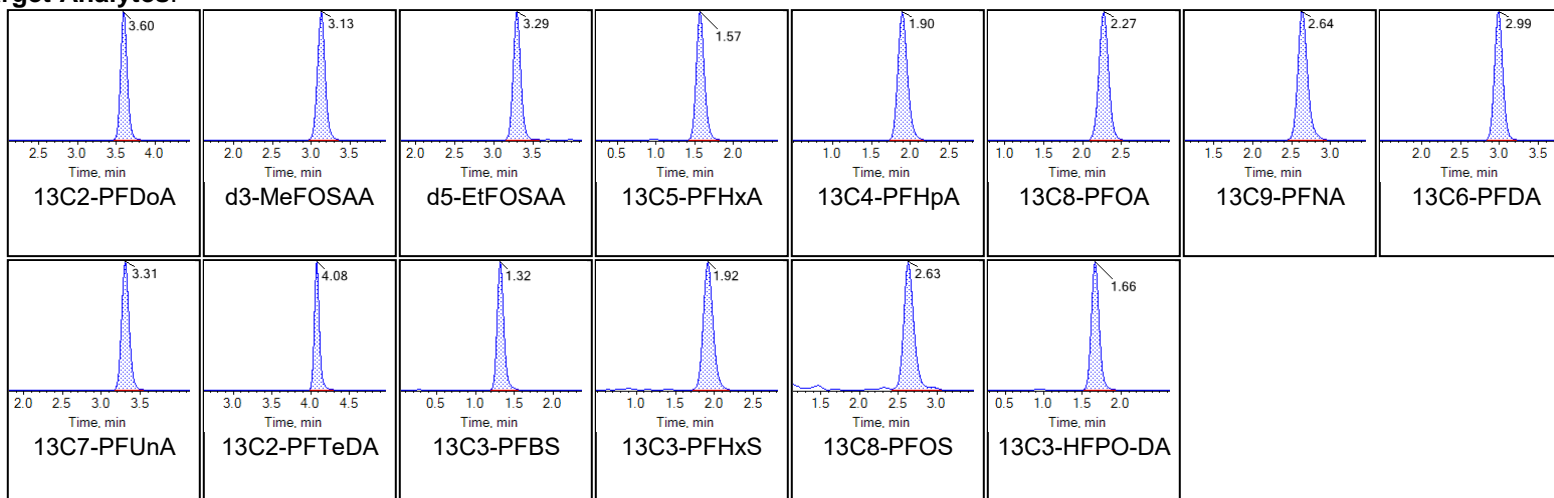
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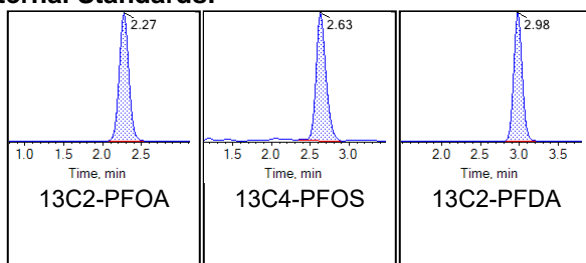
Sample Name	G1766-FS-D(3)	Injection Vial	29
Sample ID	CBD-AOA-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 12:50:11 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





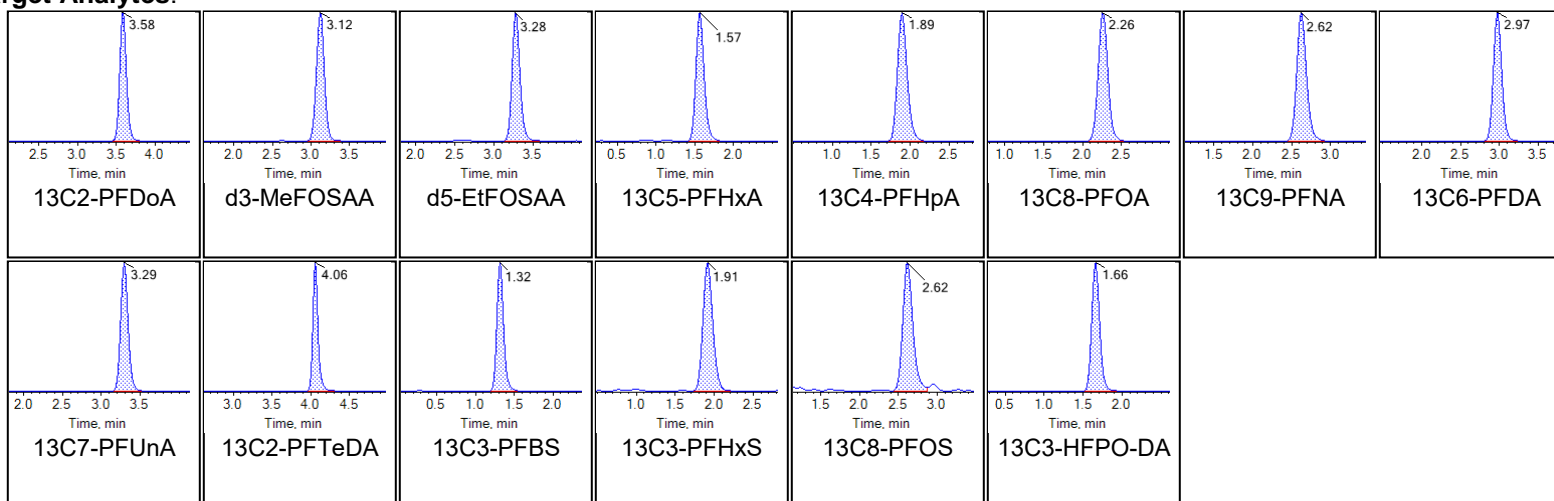
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 3:42:47 PM

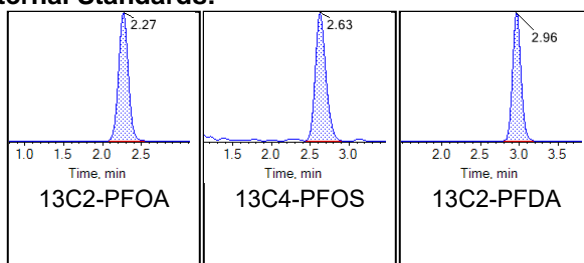
Sample Name	G1767-FS-D(3)	Injection Vial	34
Sample ID	CBD-AOA-MW01P-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/11/2020 1:42:31 AM	Data File	AE_11112020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS

Chromatograms

Target Analytes:



Internal Standards:





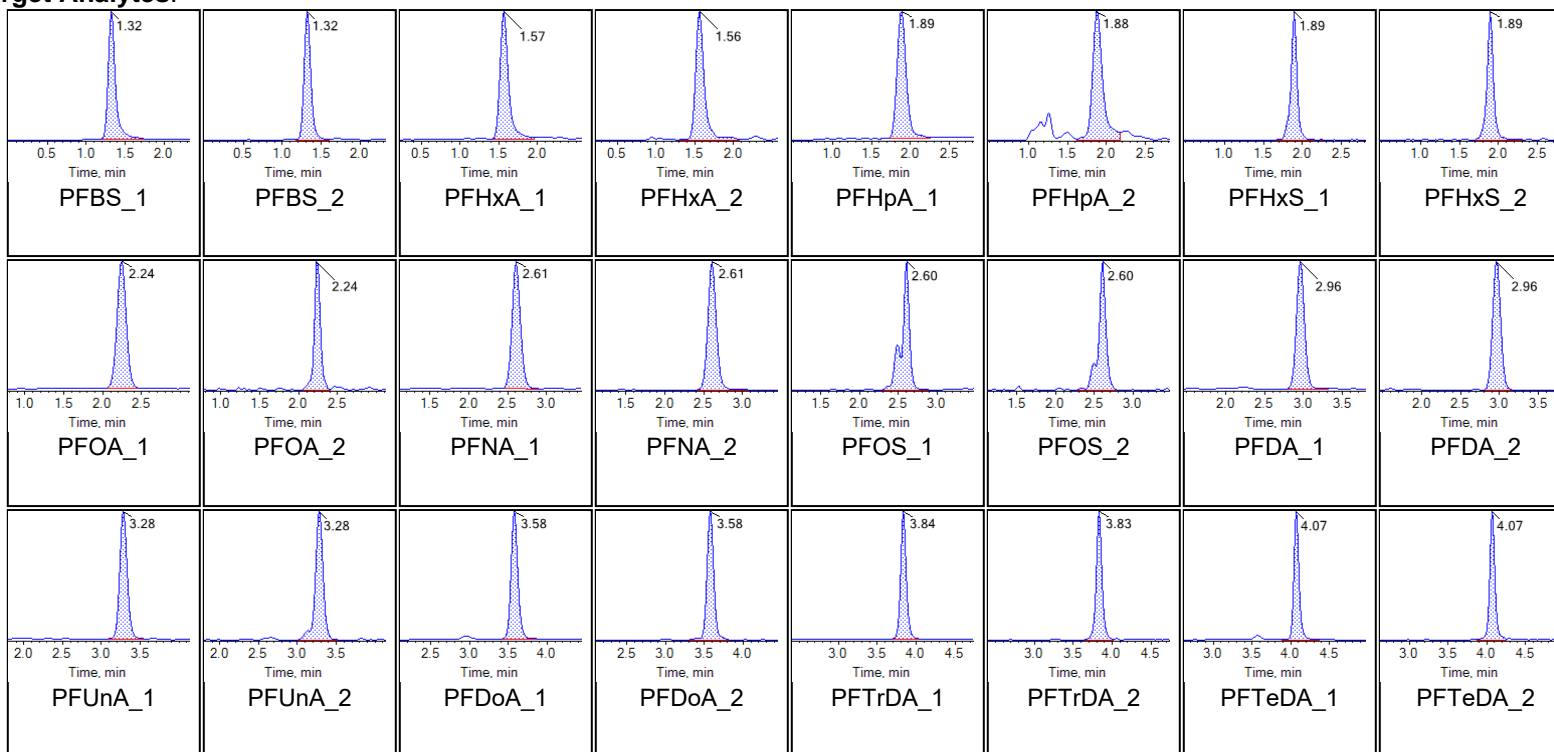
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 2:19:01 PM

Sample Name	LE52	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A

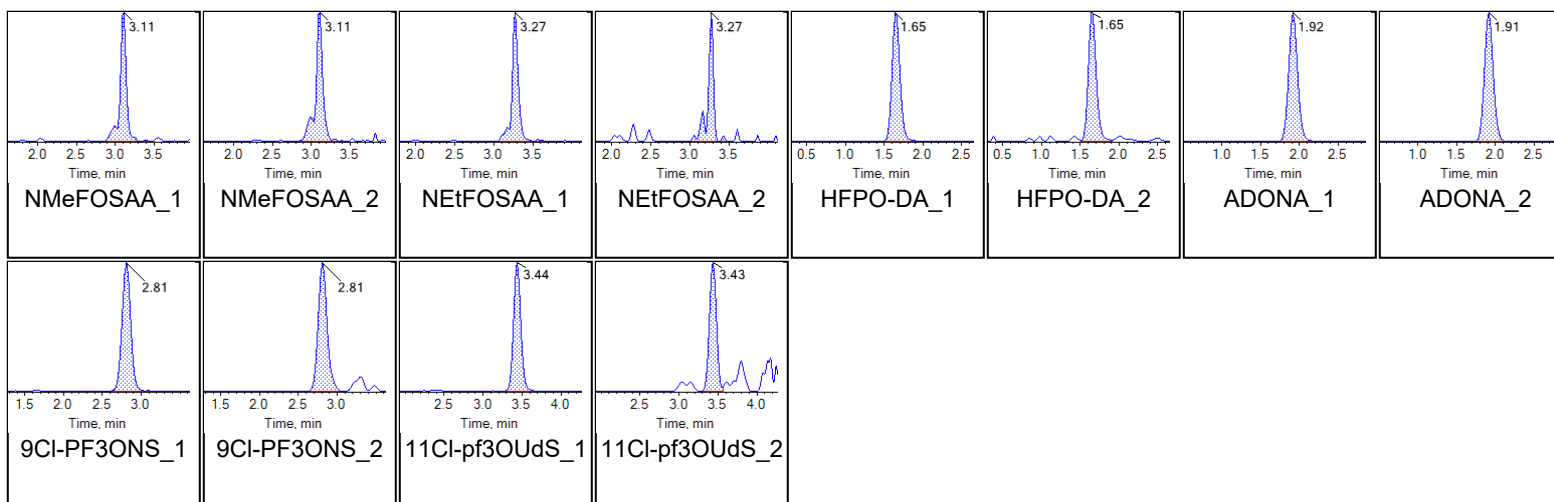
Chromatograms

Target Analytes:

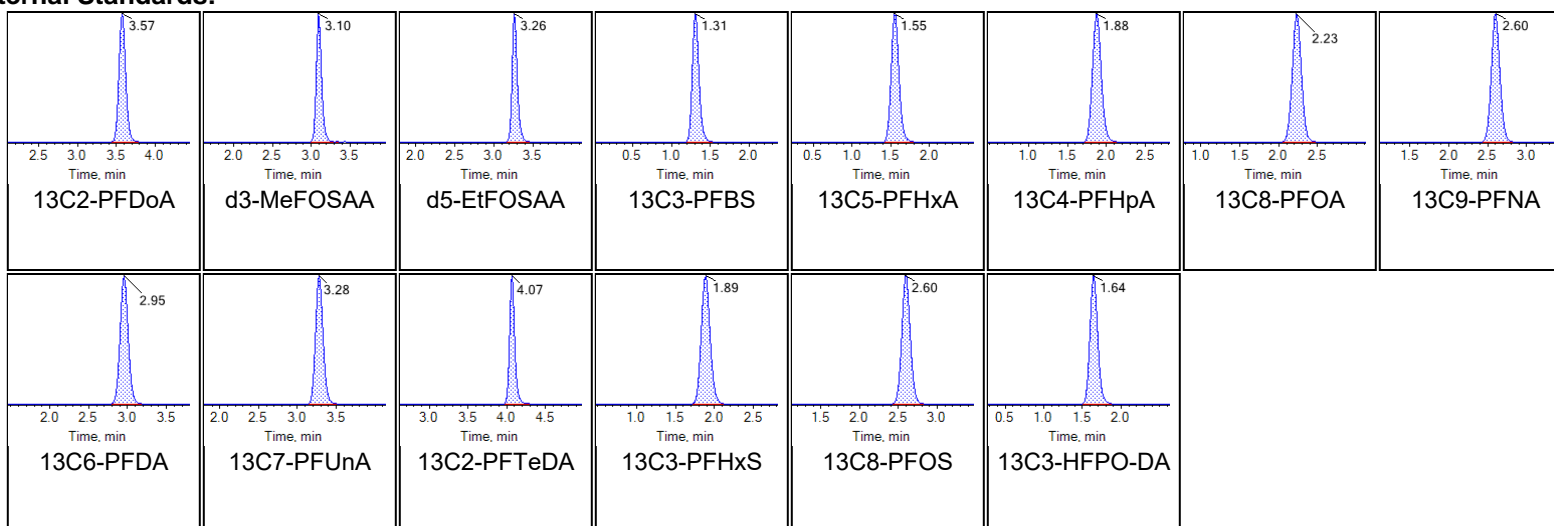




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Printed: 13/11/2020 2:19:01 PM

Internal Standards:





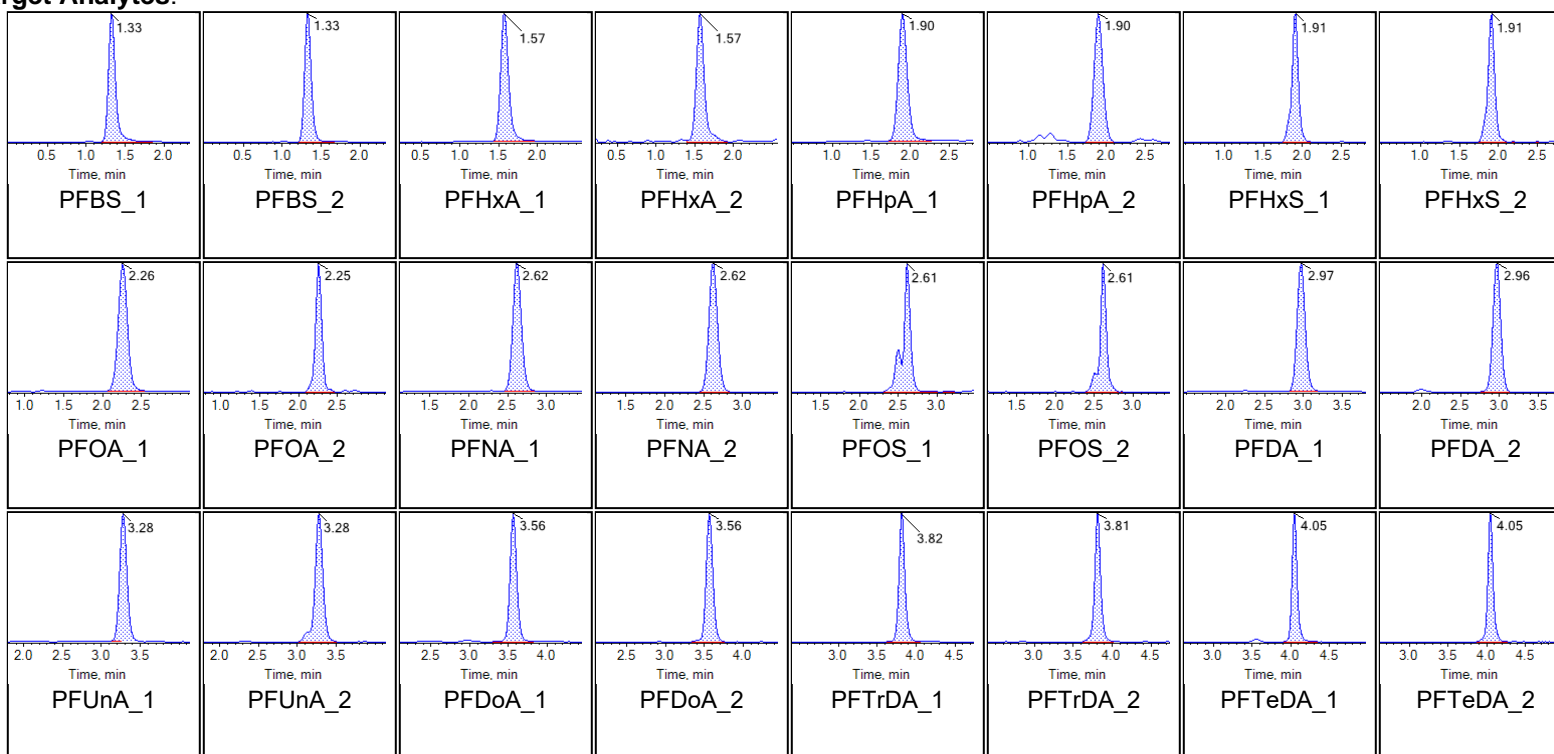
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 2:19:01 PM

Sample Name	LE53	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:23:41 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A

Chromatograms

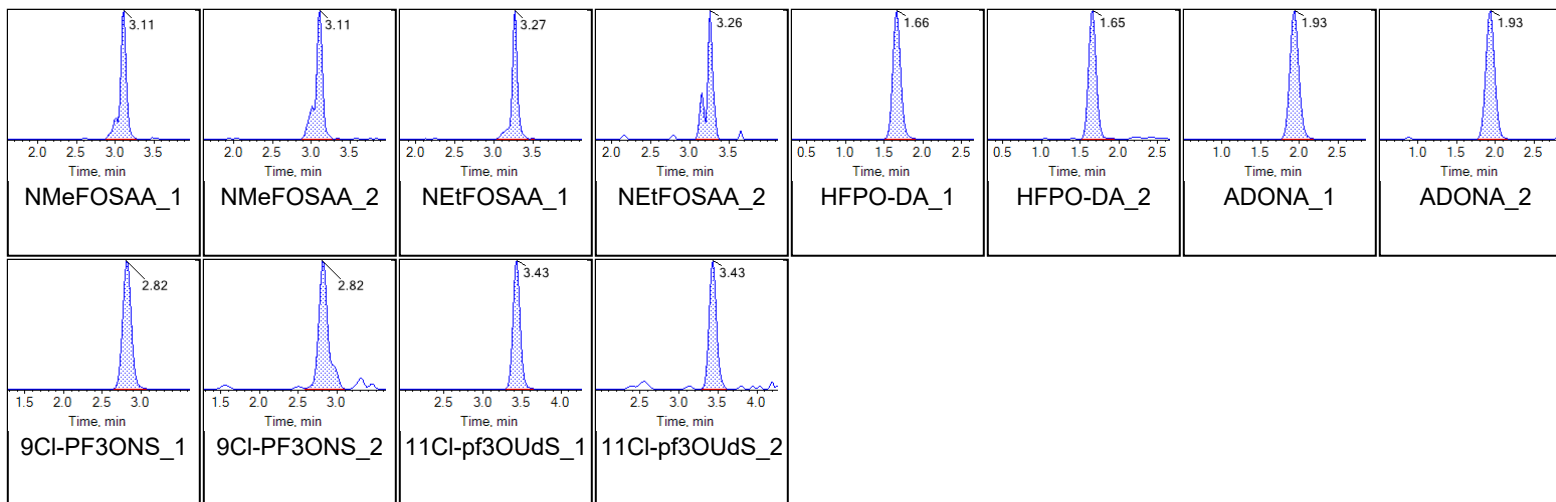
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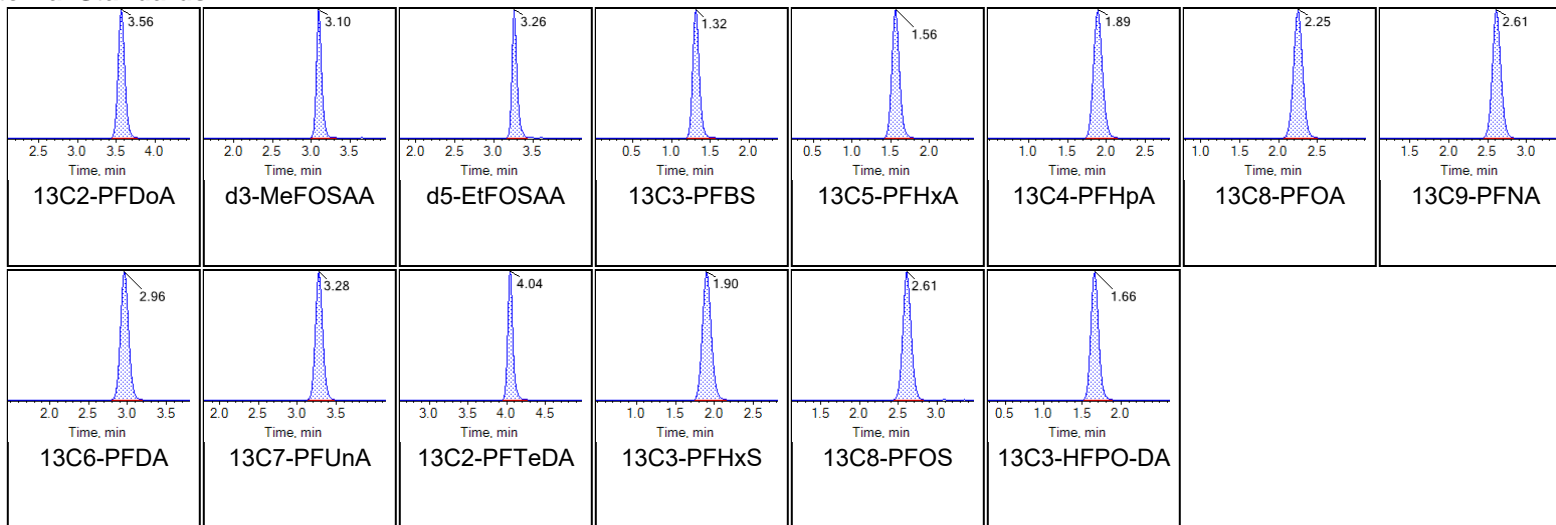


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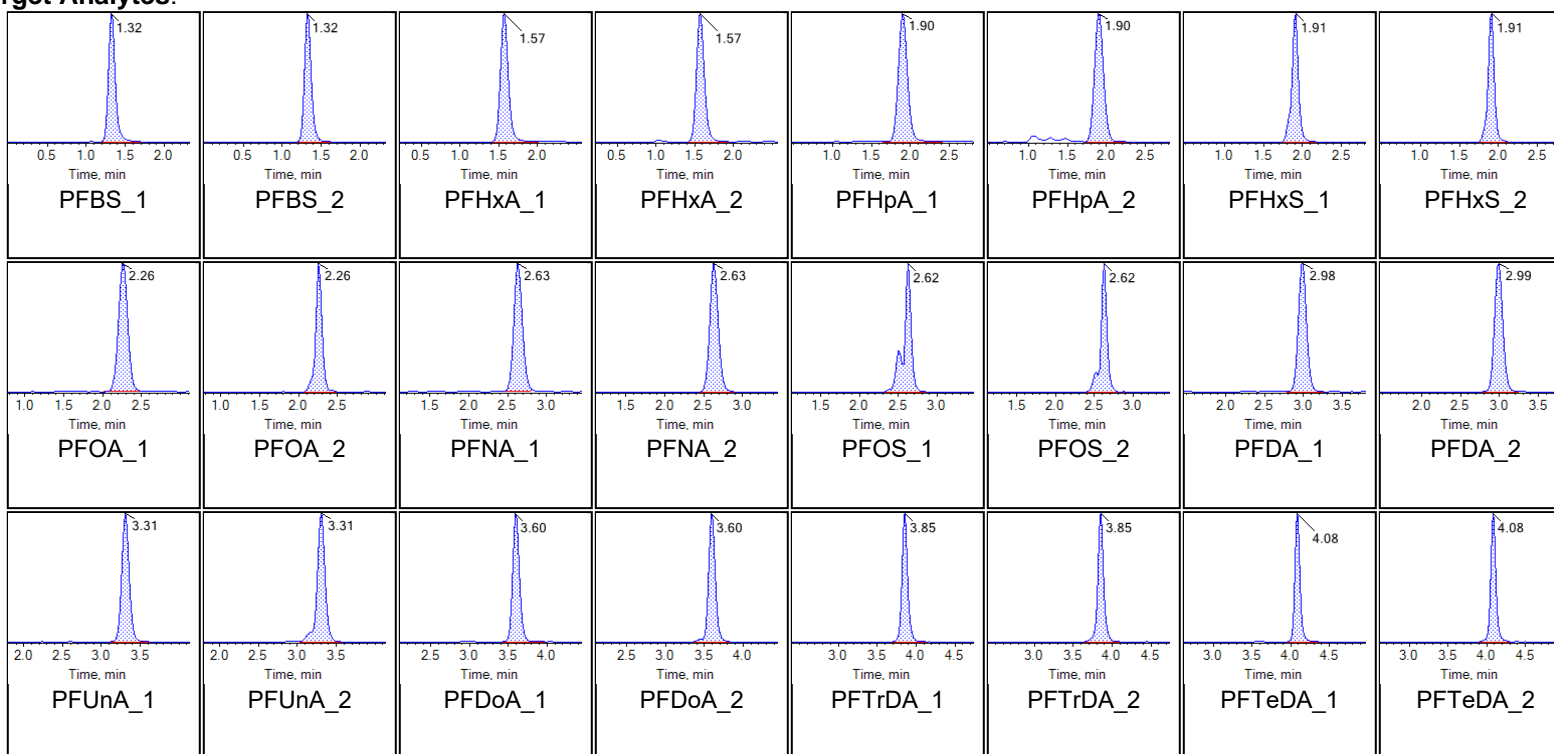
Chromatogram Report

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Printed: 13/11/2020 2:19:01 PM

Sample Name	LE54	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:34:12 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A

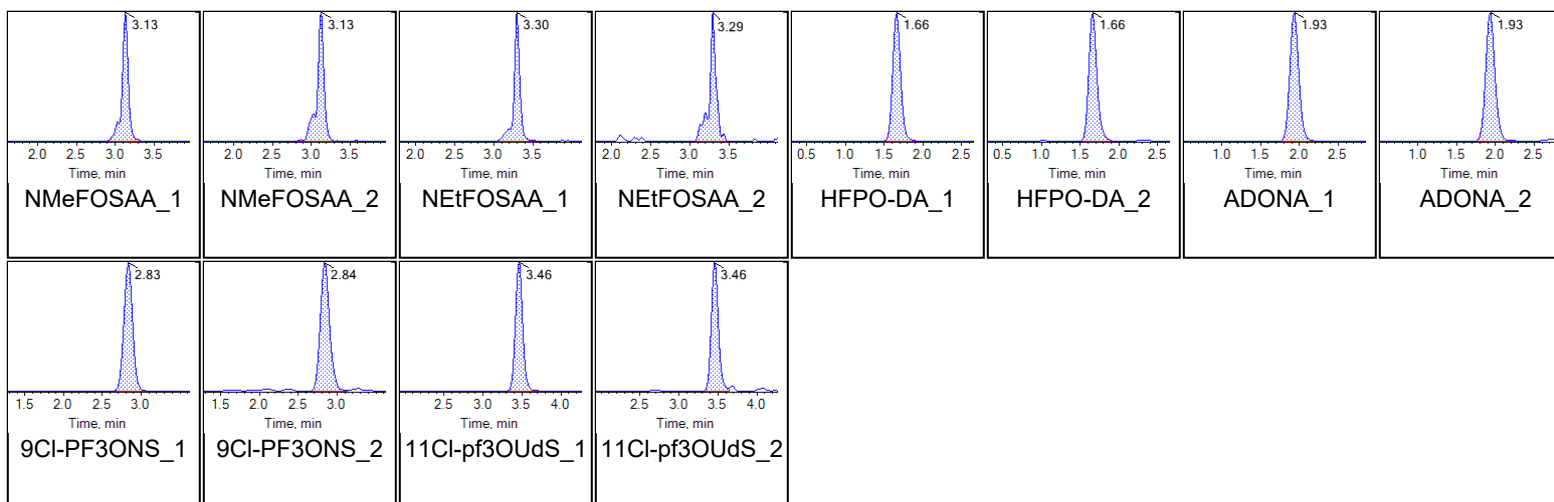
Chromatograms

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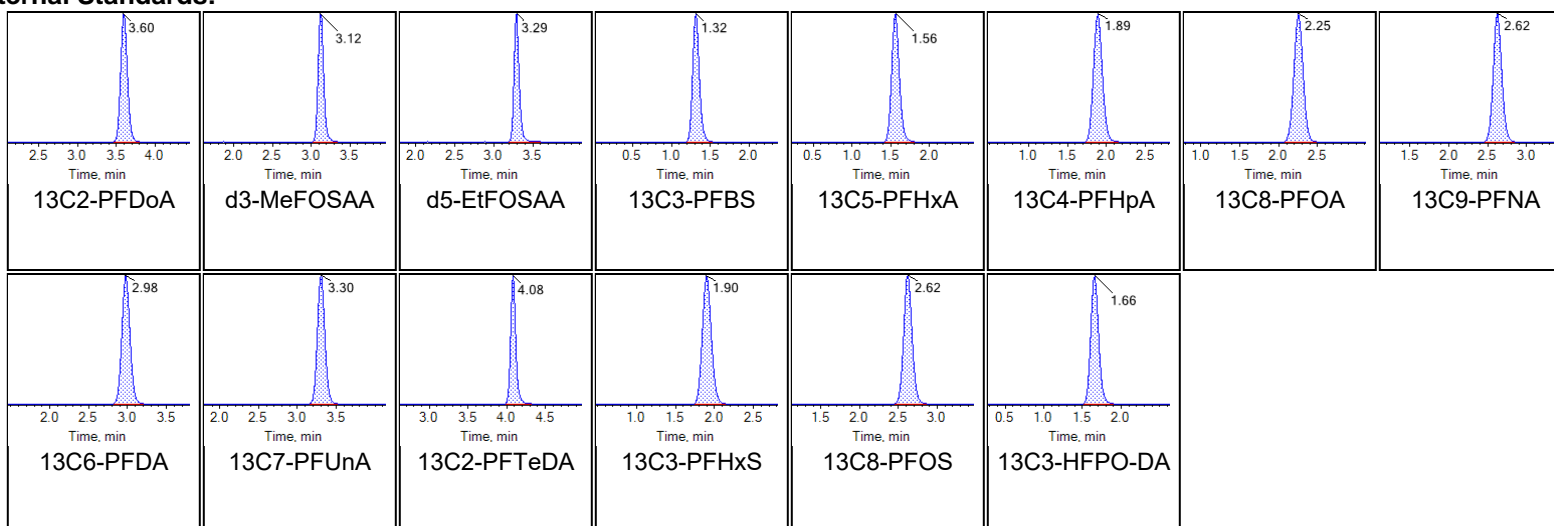




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Internal Standards:





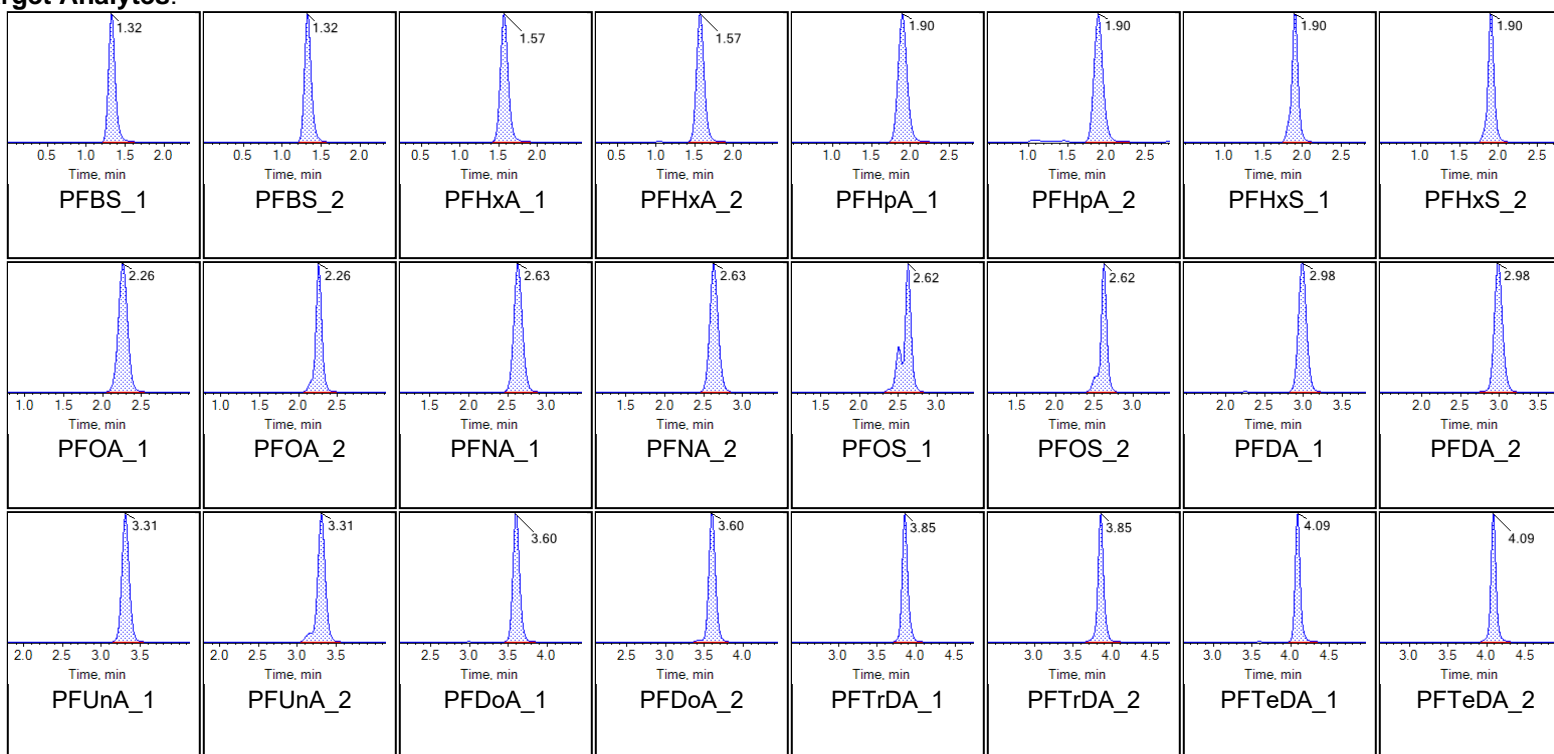
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 2:19:01 PM

Sample Name	LE55	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:44:42 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A

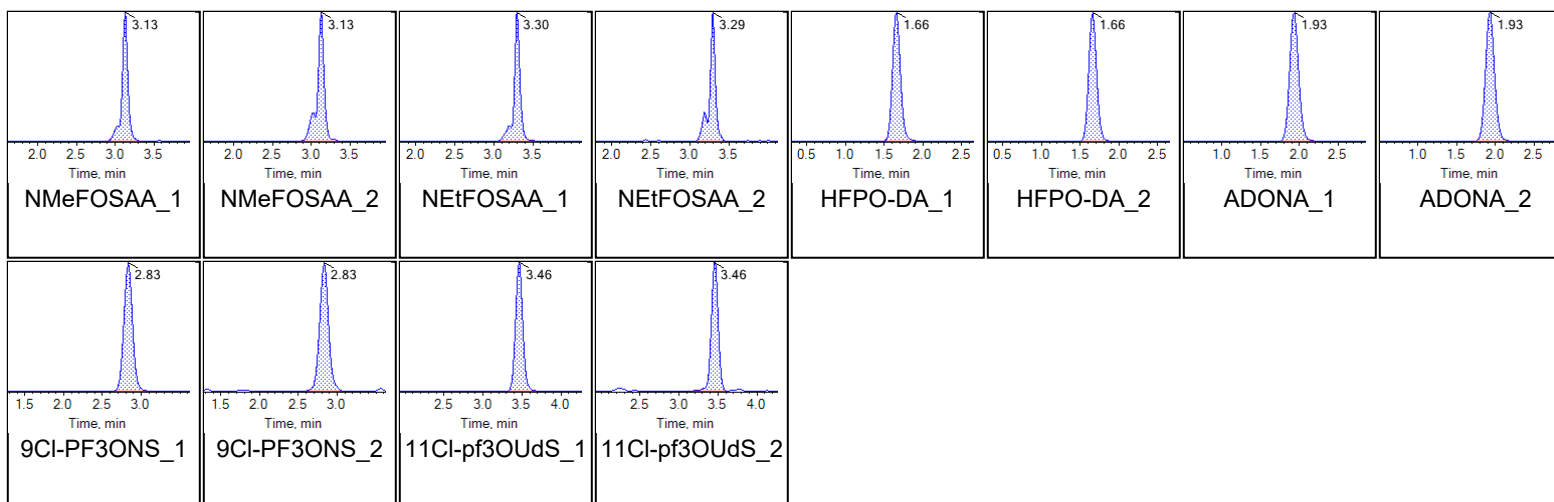
Chromatograms

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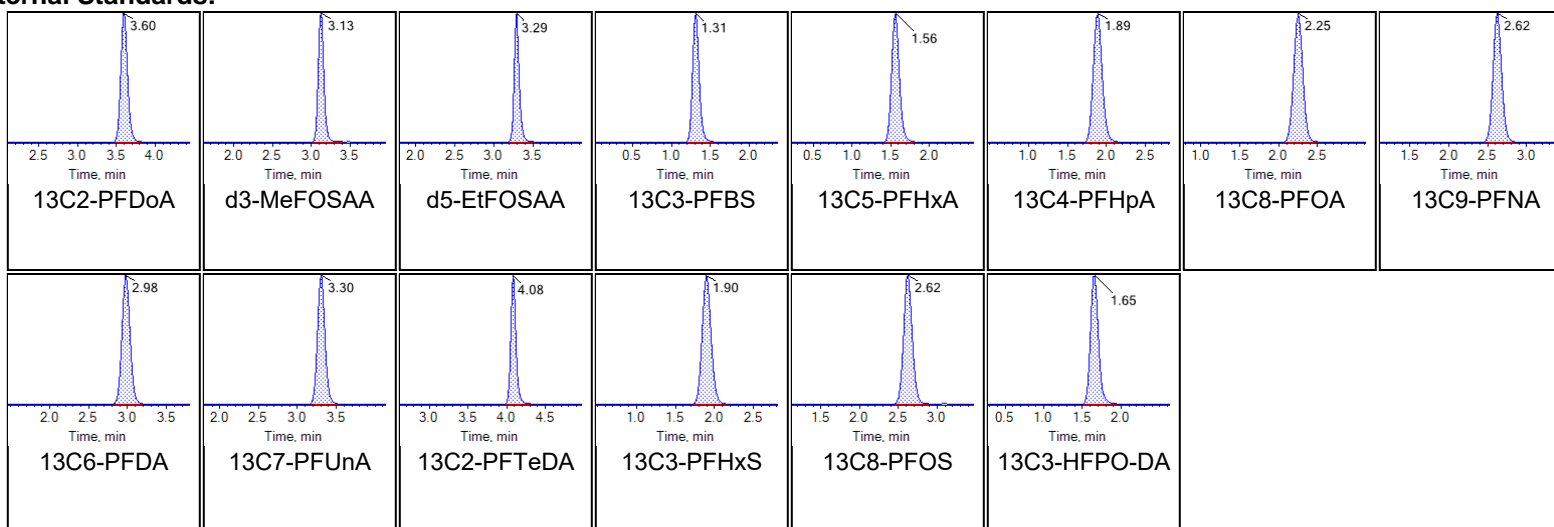




Chromatogram Report

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Internal Standards:





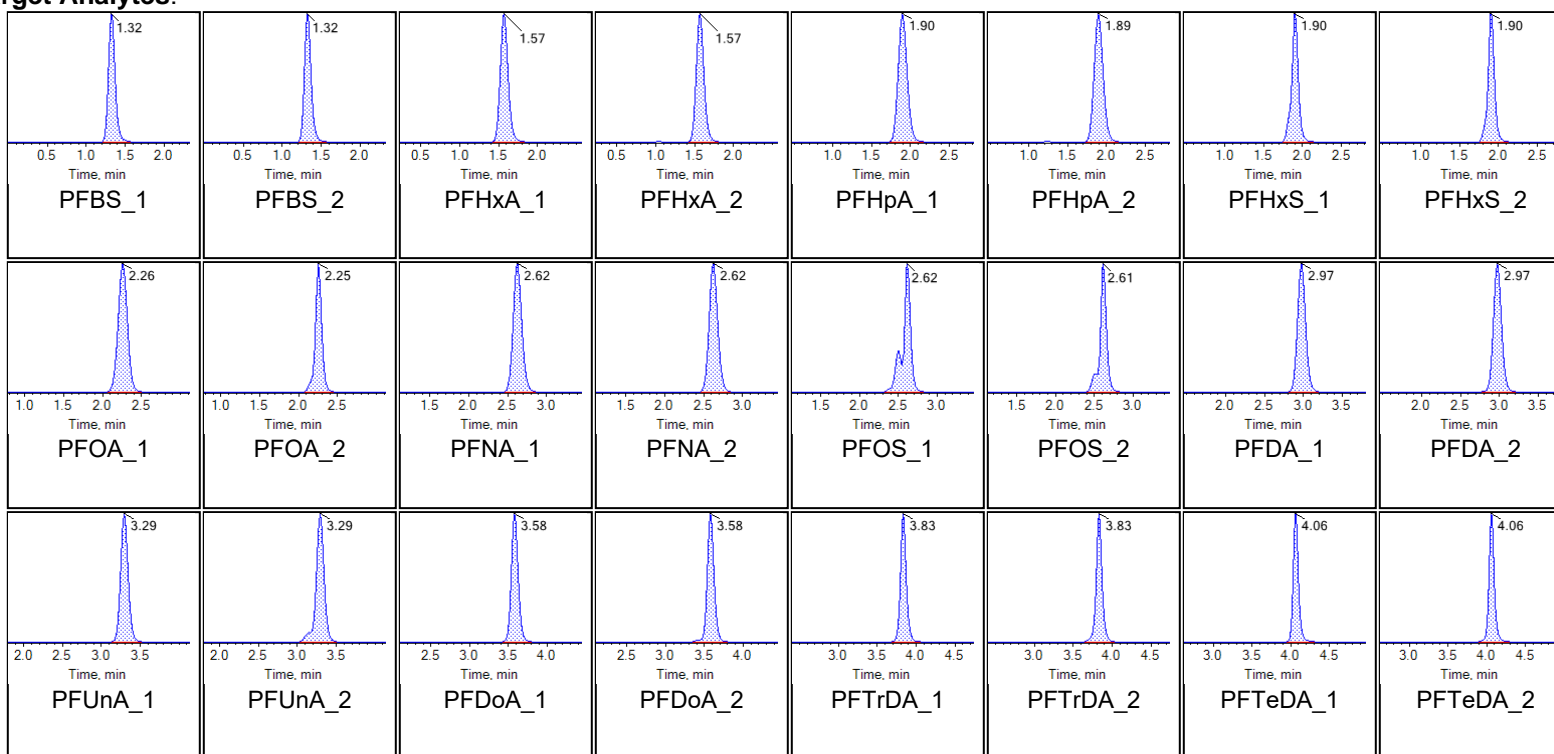
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 2:19:01 PM

Sample Name	LE56	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:55:11 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A

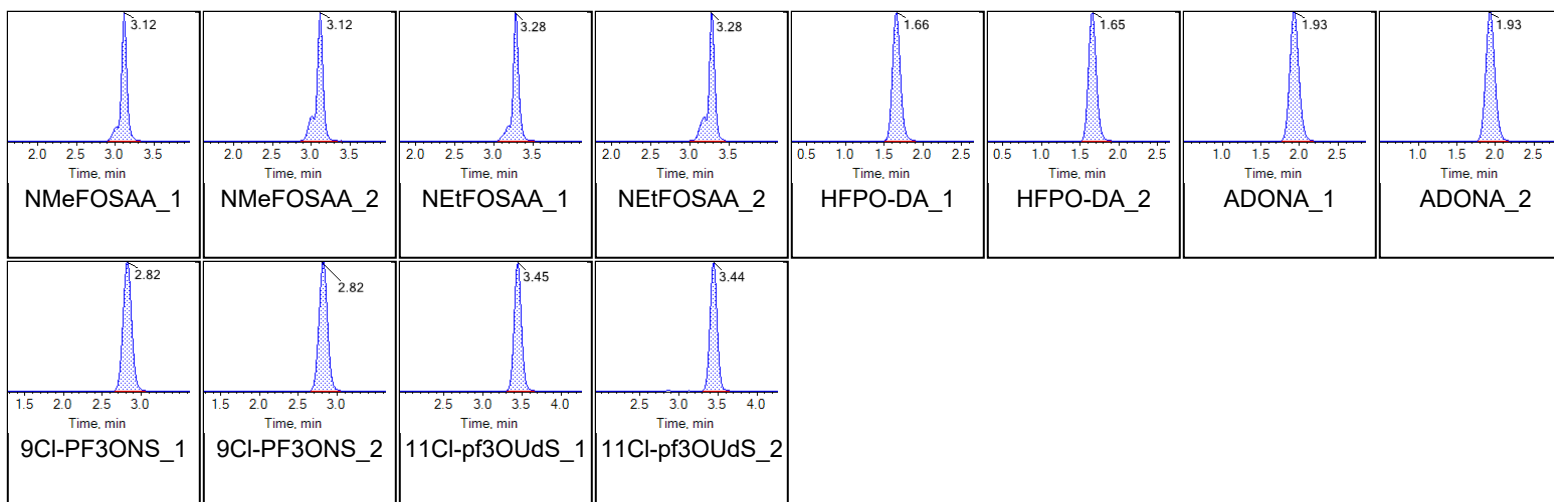
Chromatograms

Target Analytes:

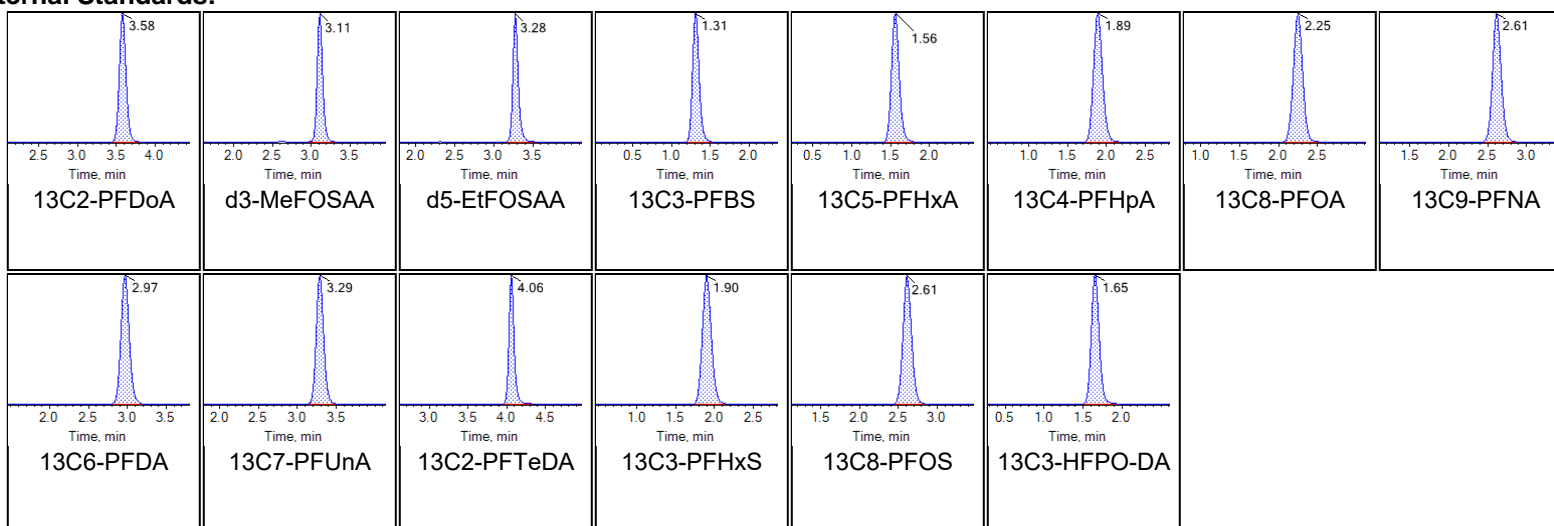




Chromatogram Report

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Internal Standards:





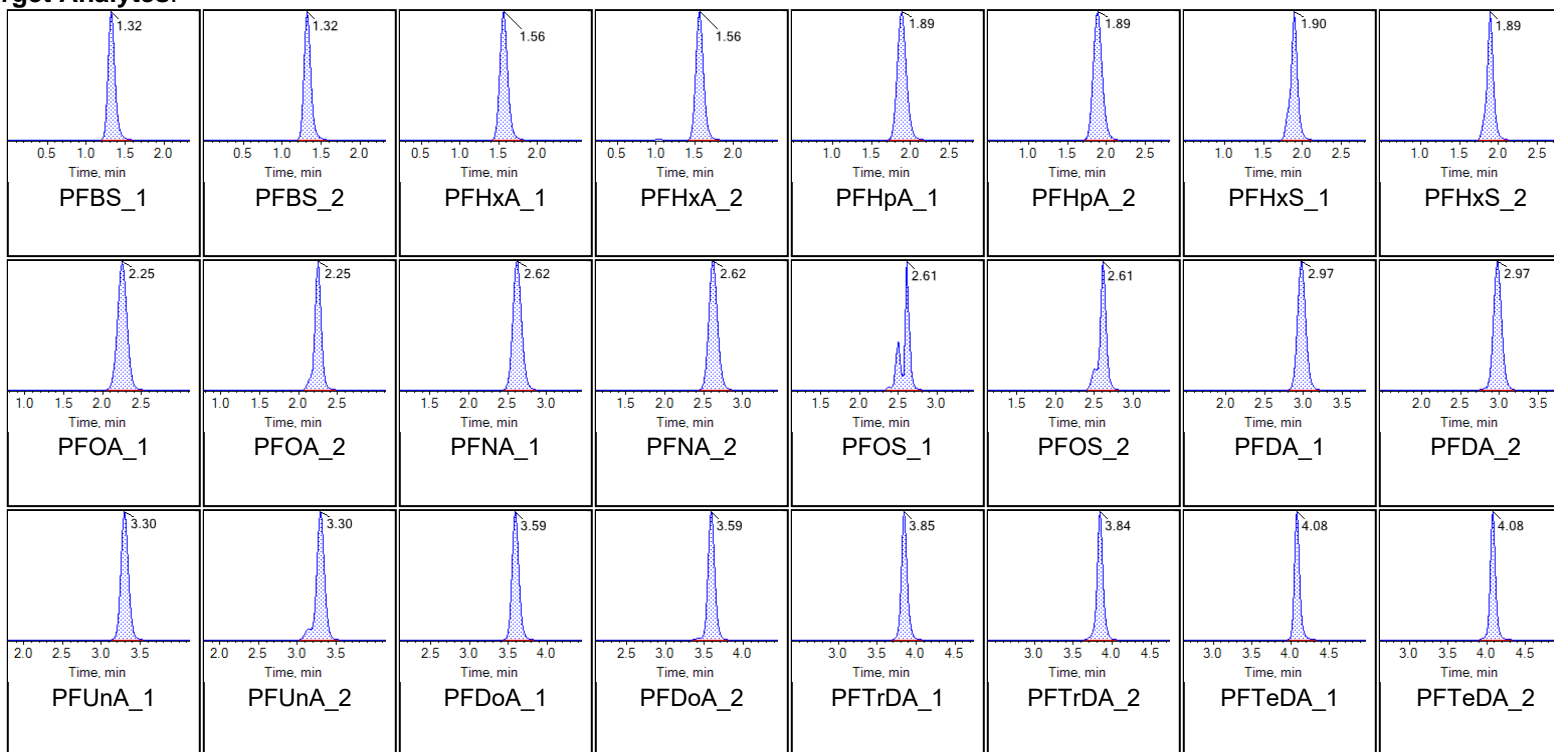
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 2:19:01 PM

Sample Name	LE57	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:05:40 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A

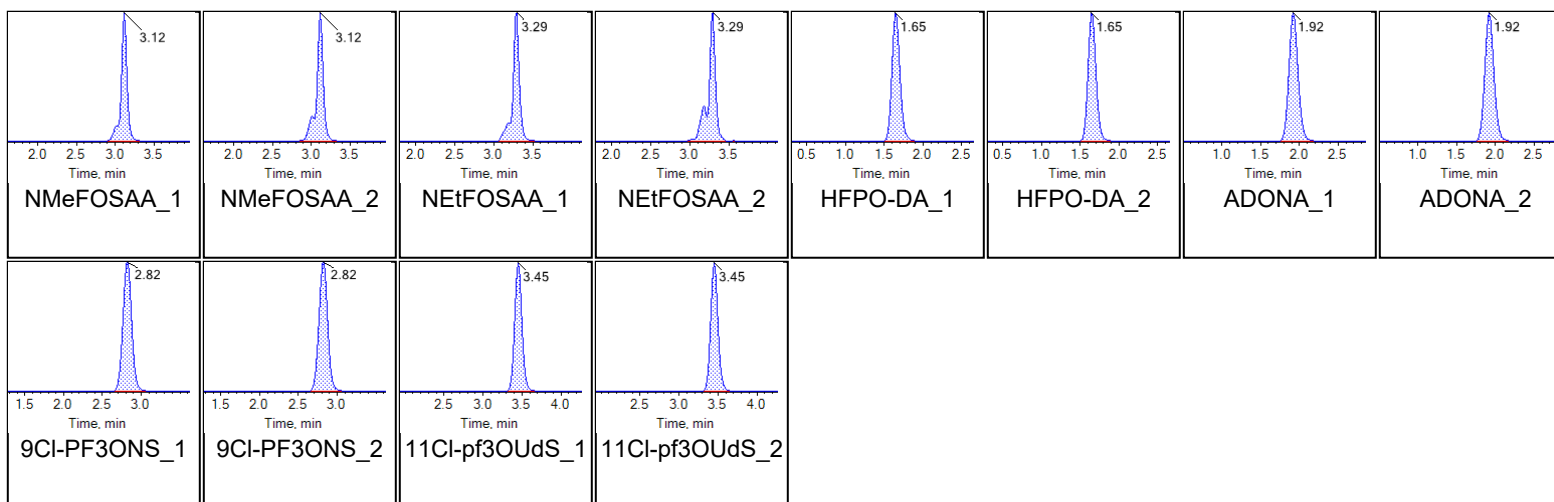
Chromatograms

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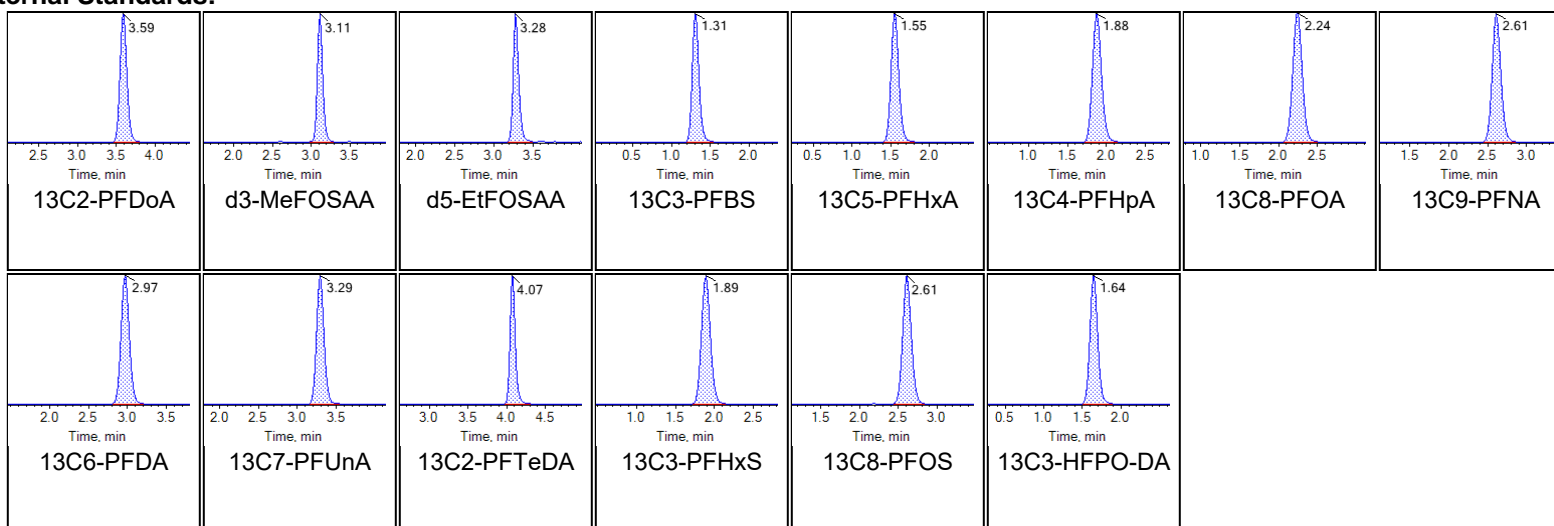




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Internal Standards:





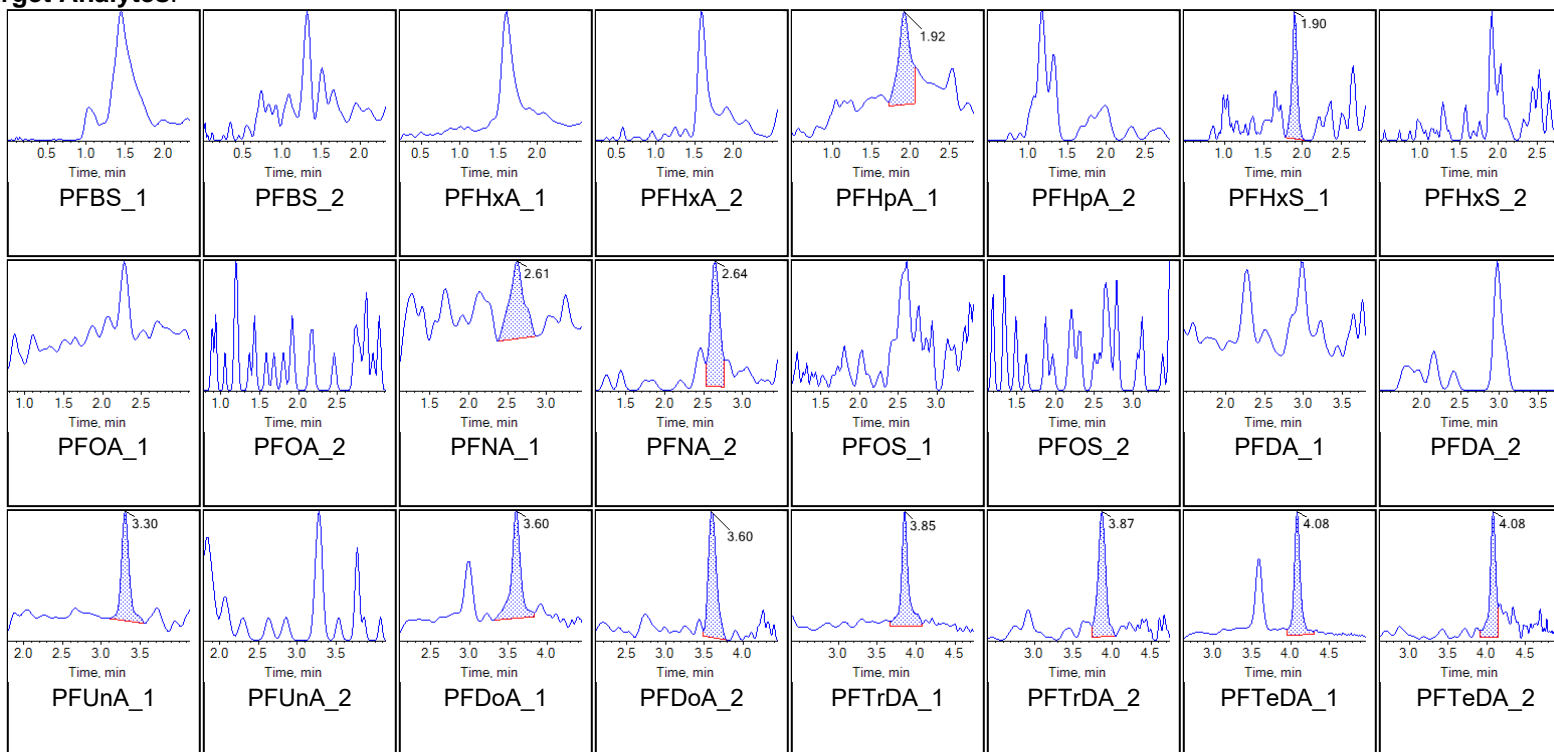
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Sample Name	LE58 IB	Injection Vial	8
Sample ID	IB	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:16:09 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A

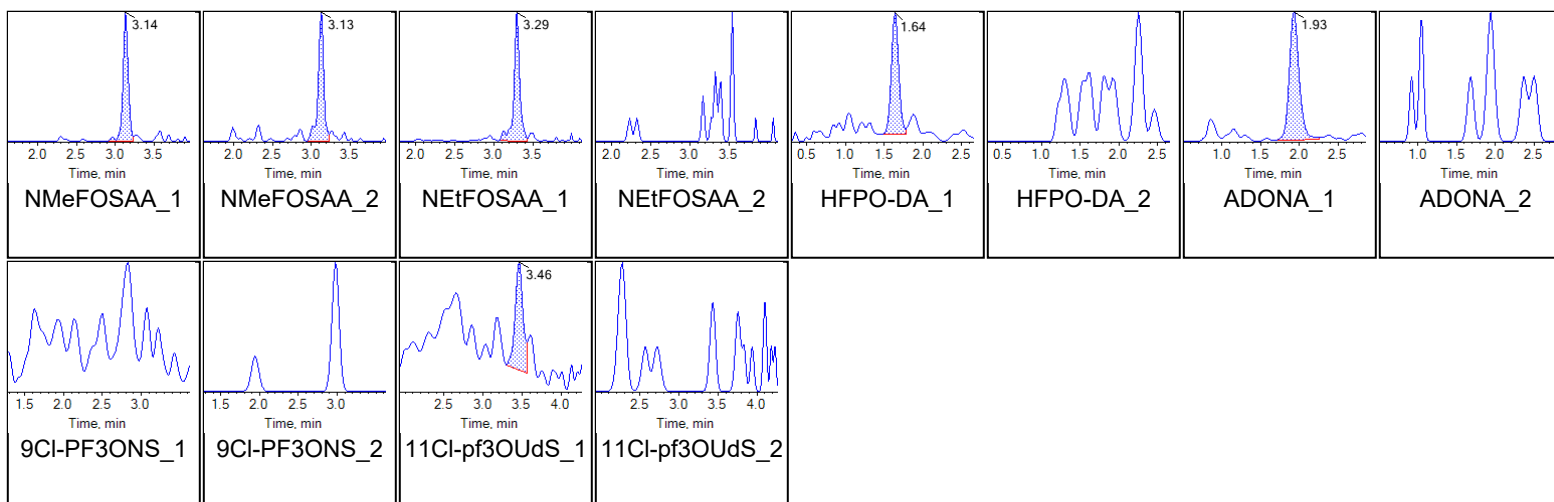
Chromatograms

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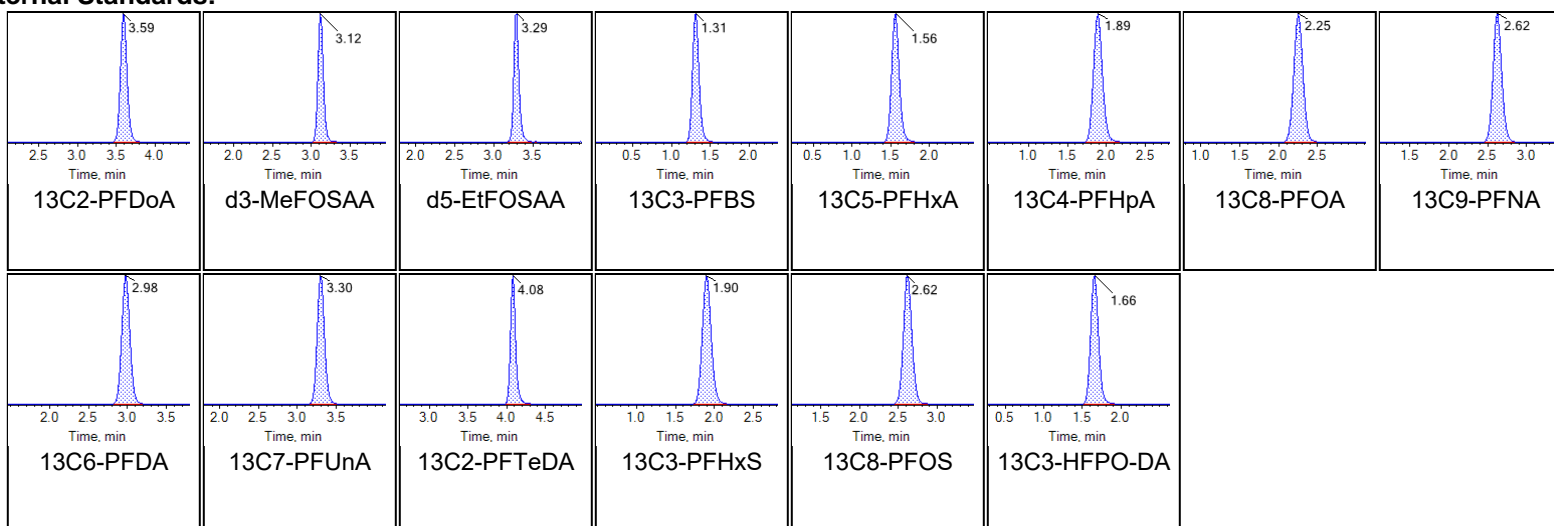




Chromatogram Report

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Internal Standards:





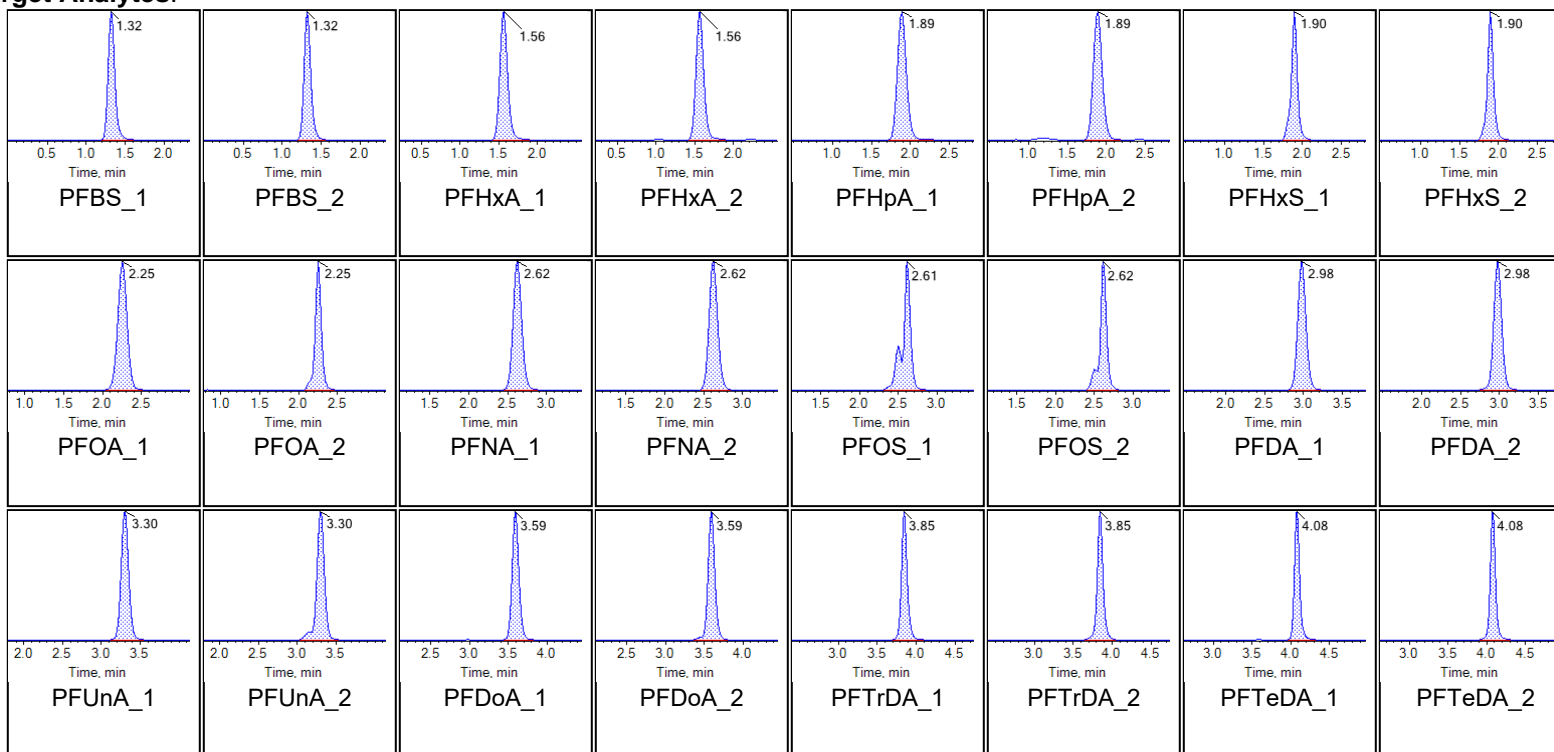
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 2:19:01 PM

Sample Name	LE59 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:26:38 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A

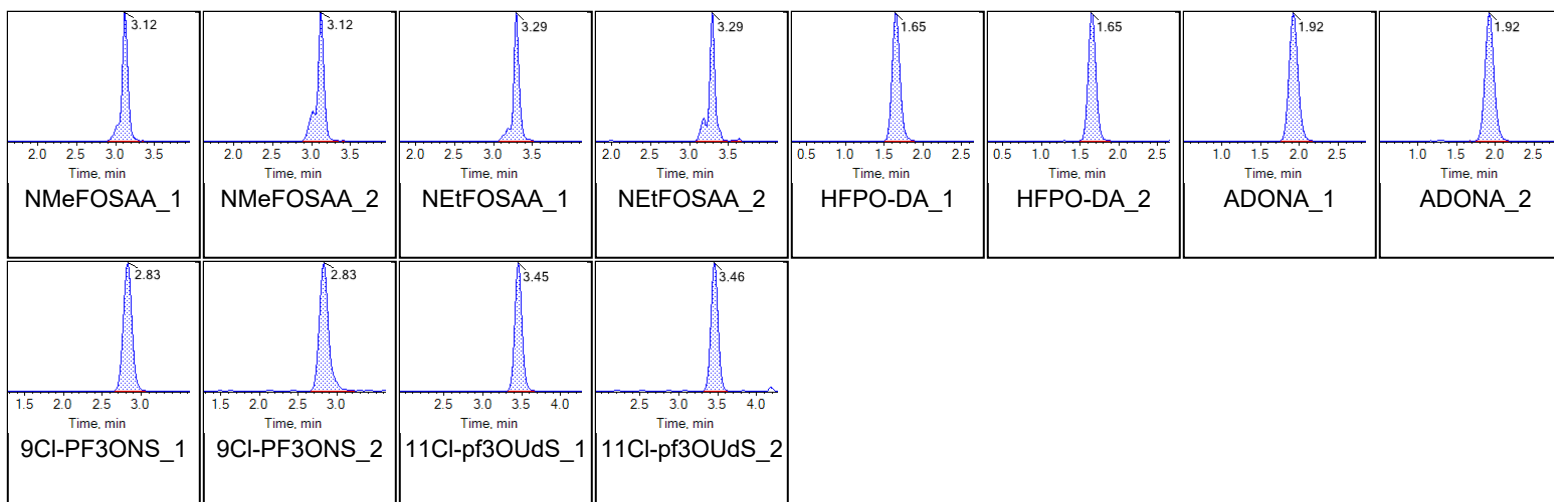
Chromatograms

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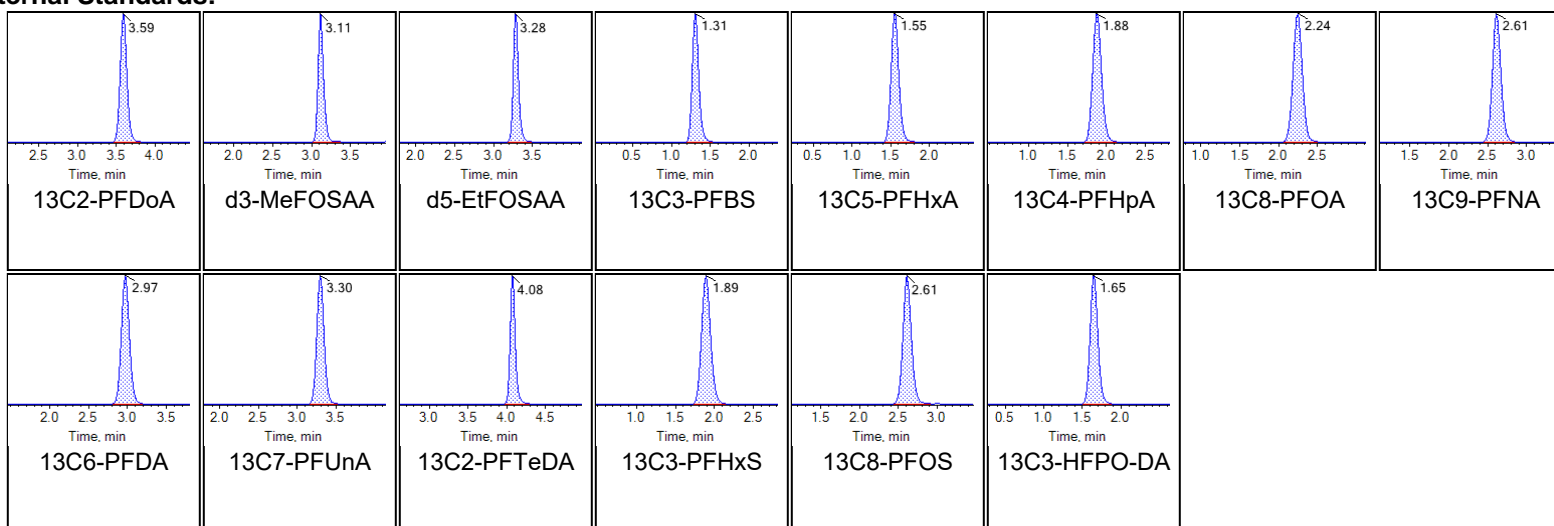




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Internal Standards:





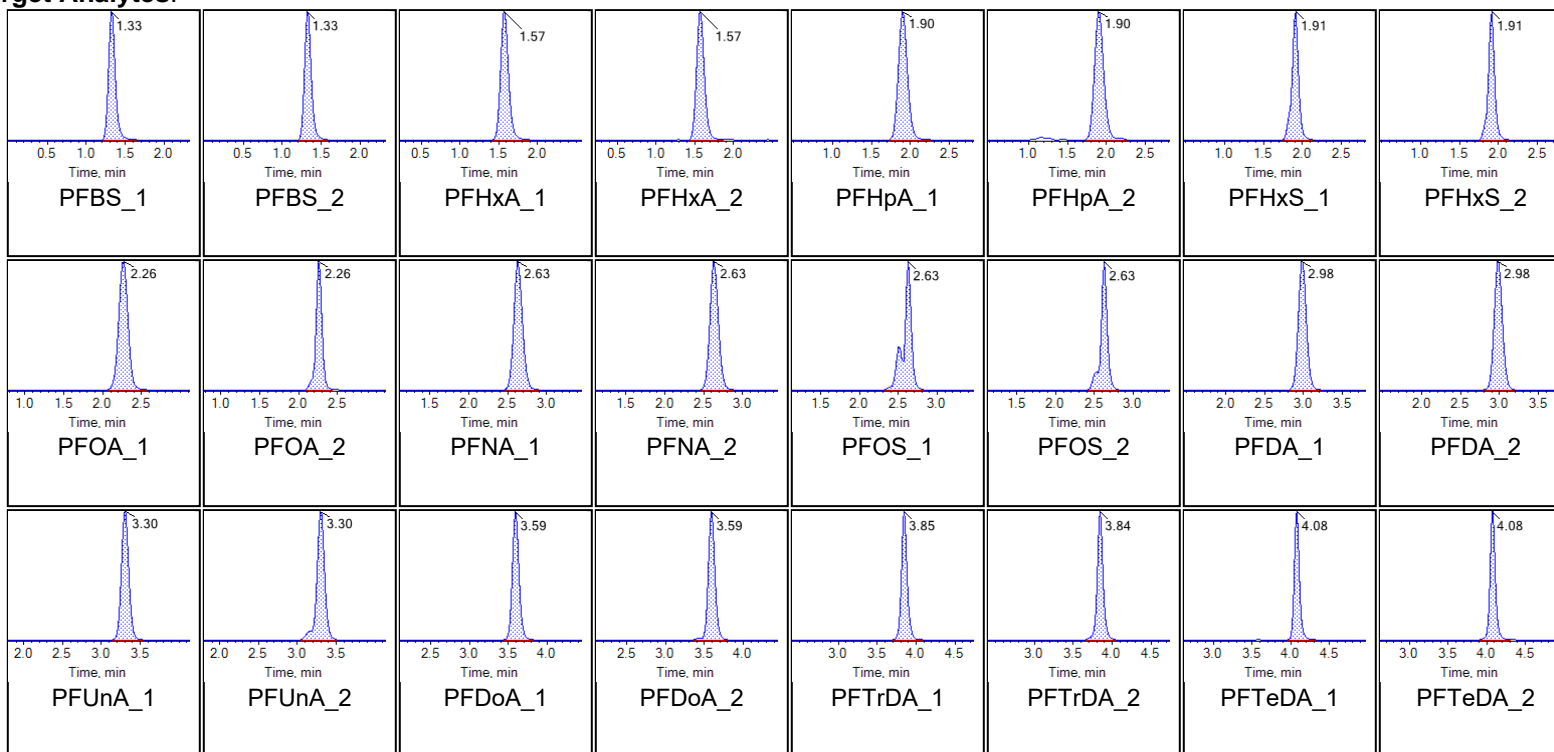
Chromatogram Report

Created with Analyst Reporter
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Sample Name	LE55 CCV	Injection Vial	19
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:11:33 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A

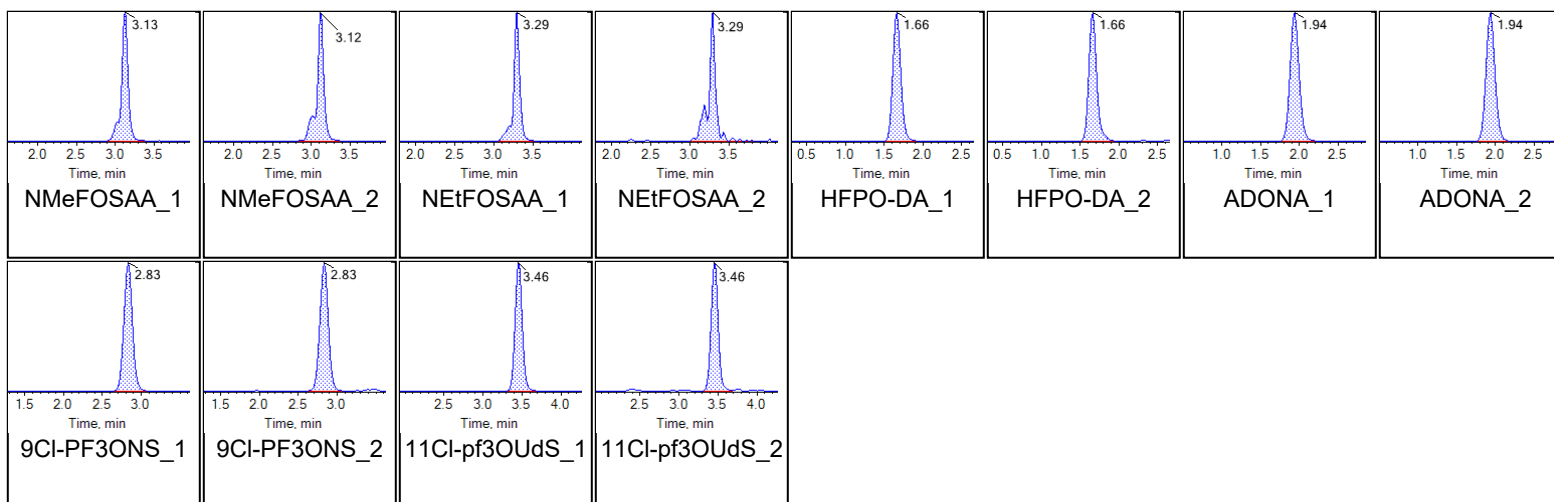
Chromatograms

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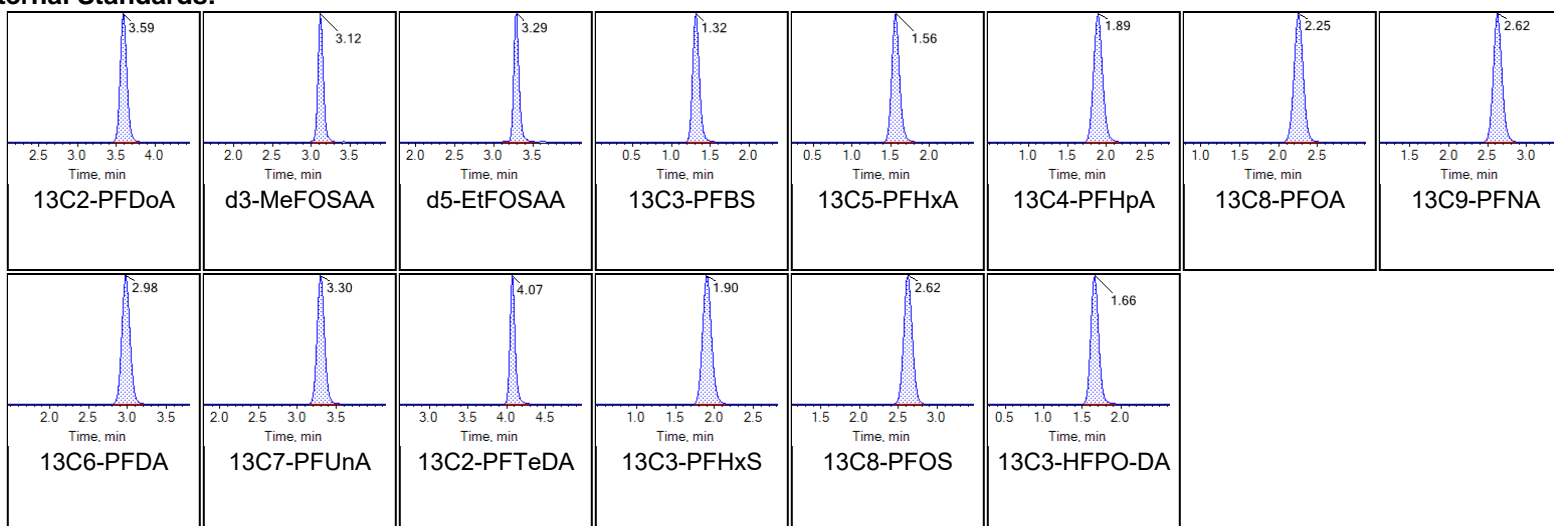




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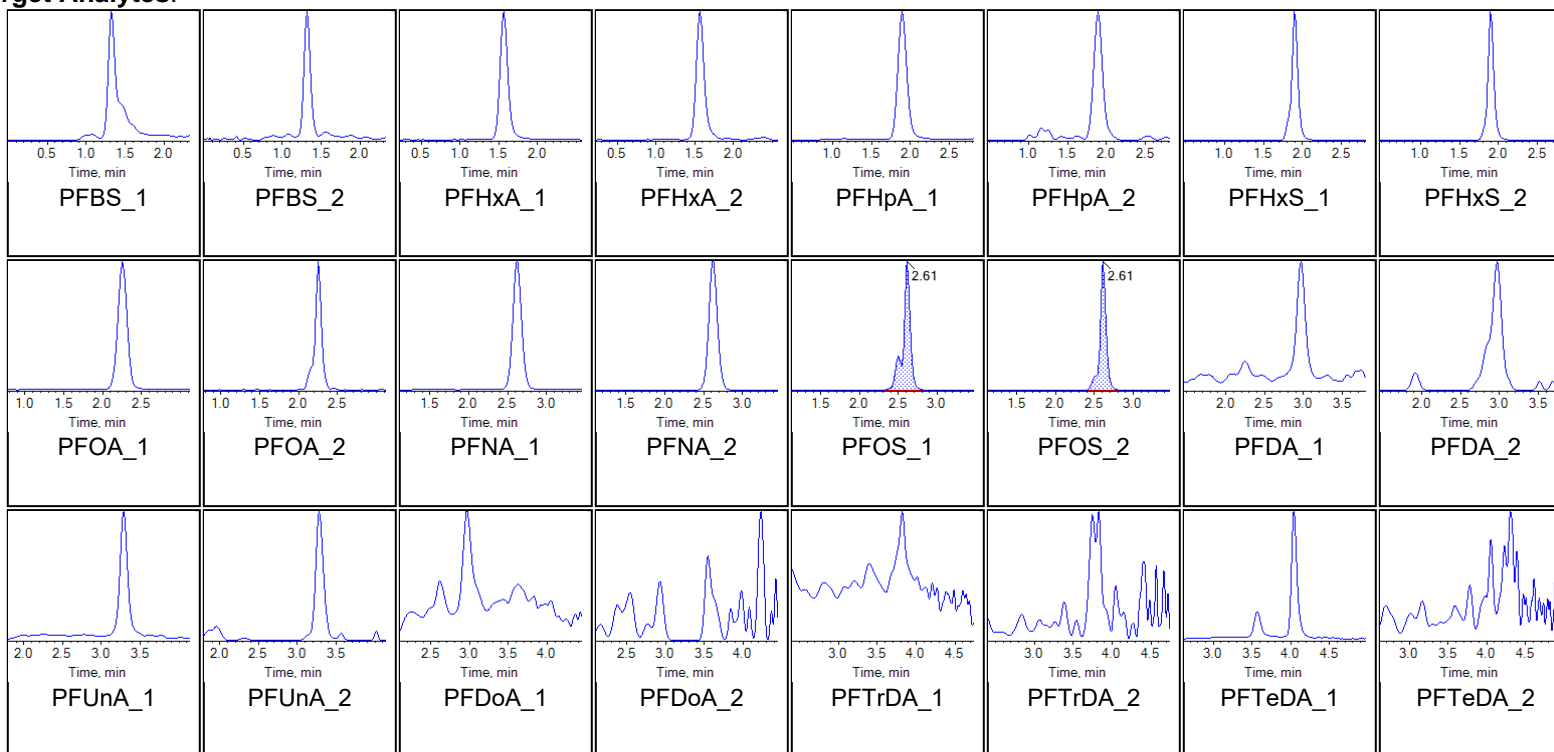
Chromatogram Report

Created with Analyst Reporter
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Sample Name	G1768-FS-D(13)	Injection Vial	21
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:32:32 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A

Chromatograms

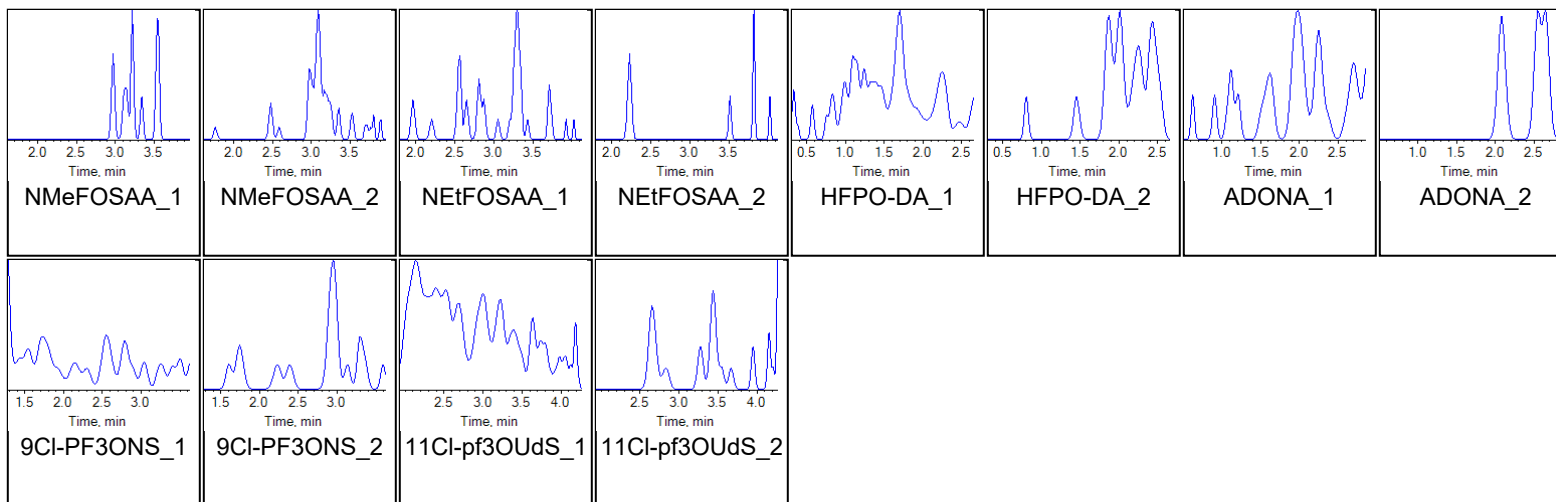
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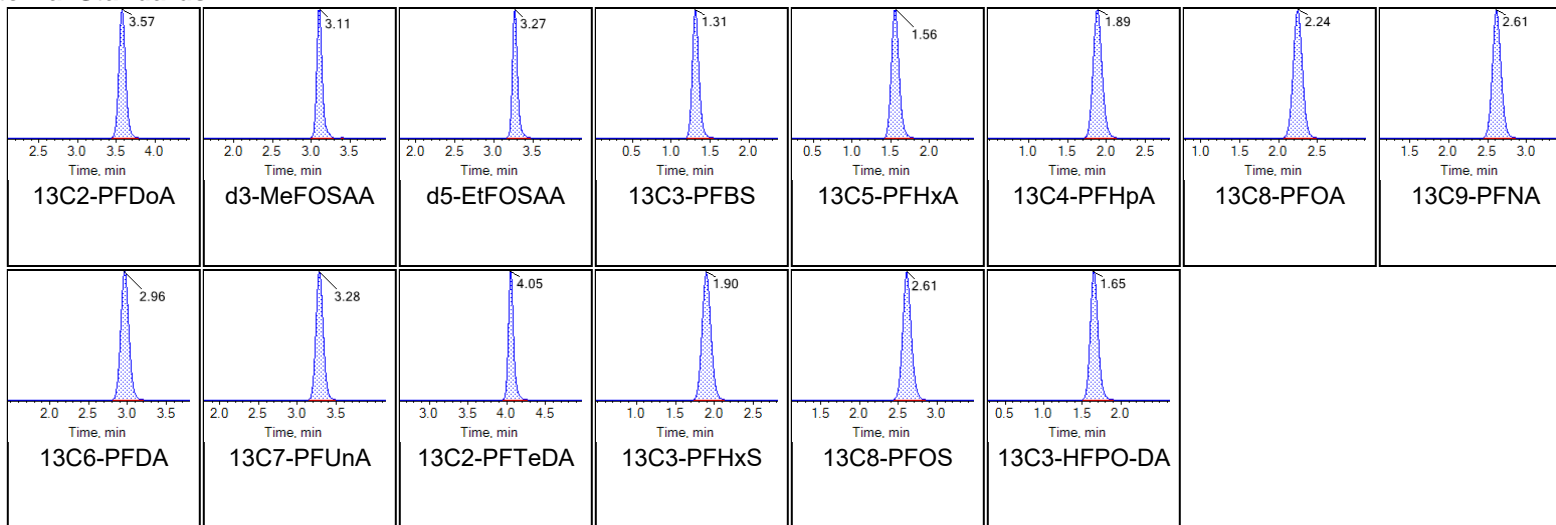


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Internal Standards:





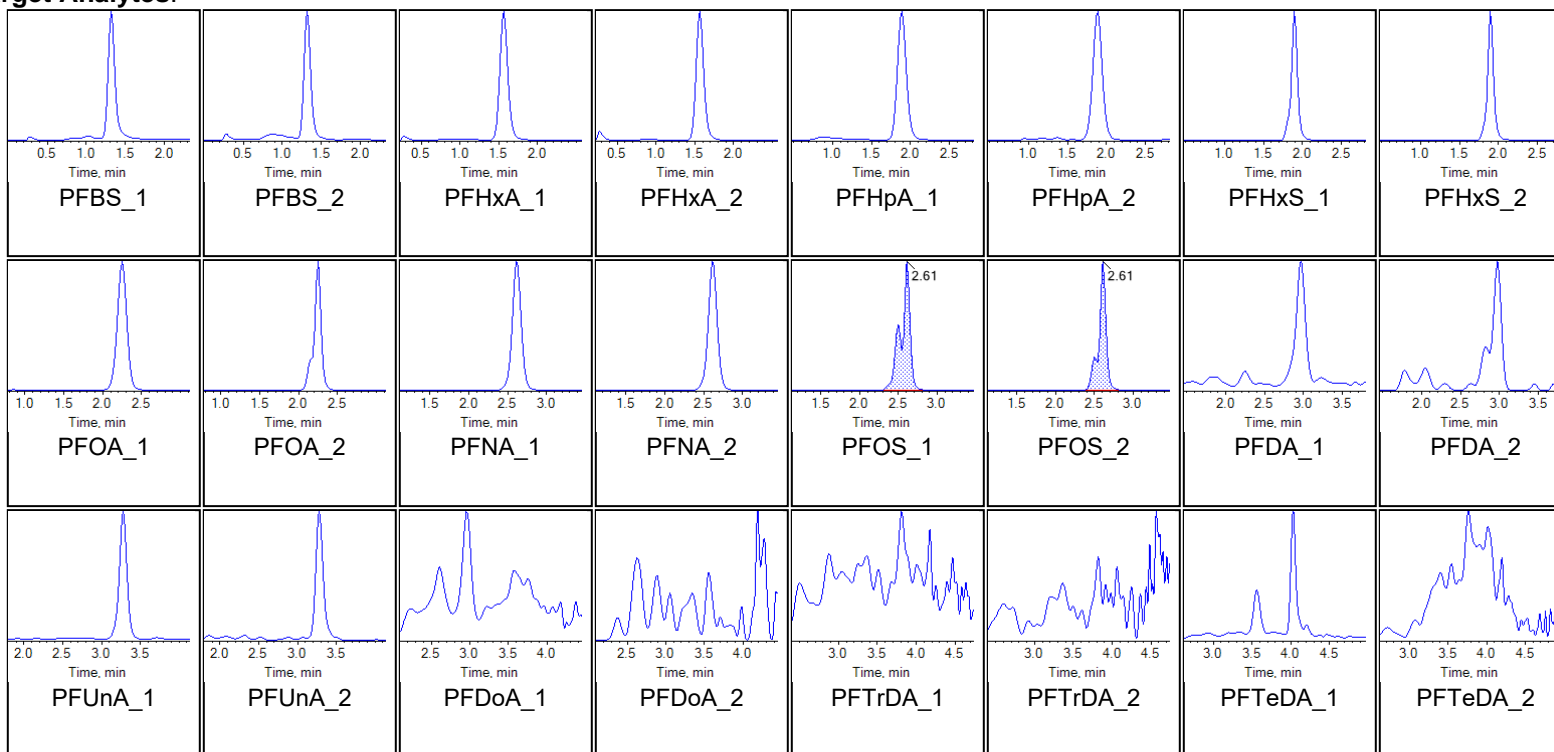
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 2:19:01 PM

Sample Name	G1773-FS-D(9)	Injection Vial	22
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:43:01 PM	Data File	AE_11122020_5-369.wiff
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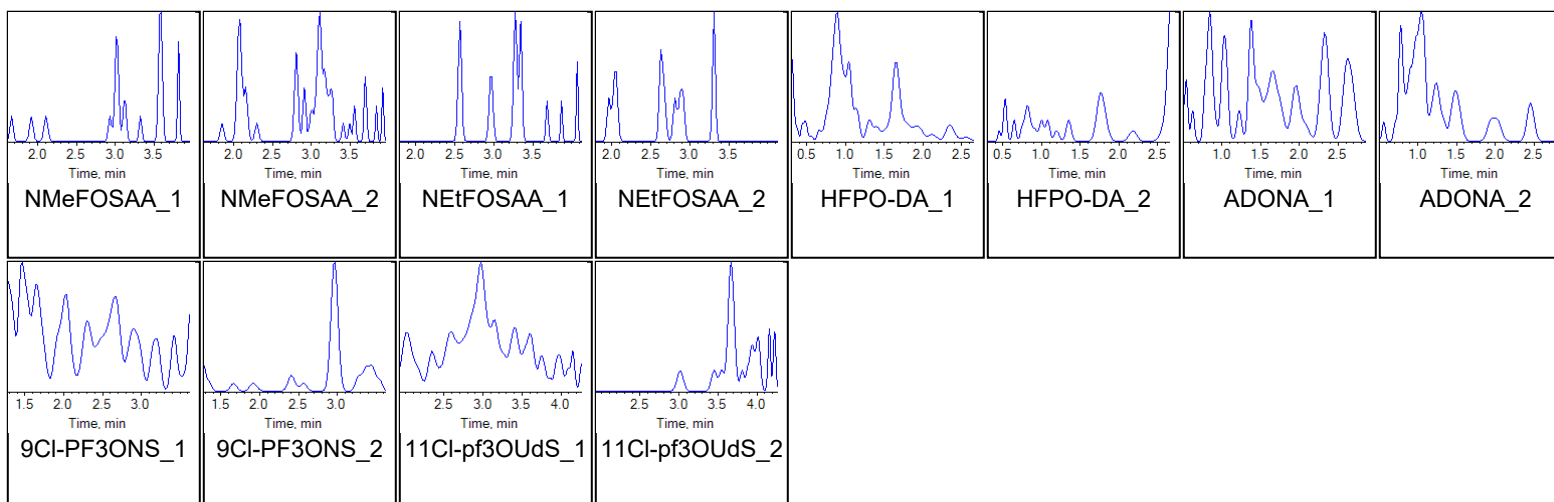
Chromatograms

Target Analytes:

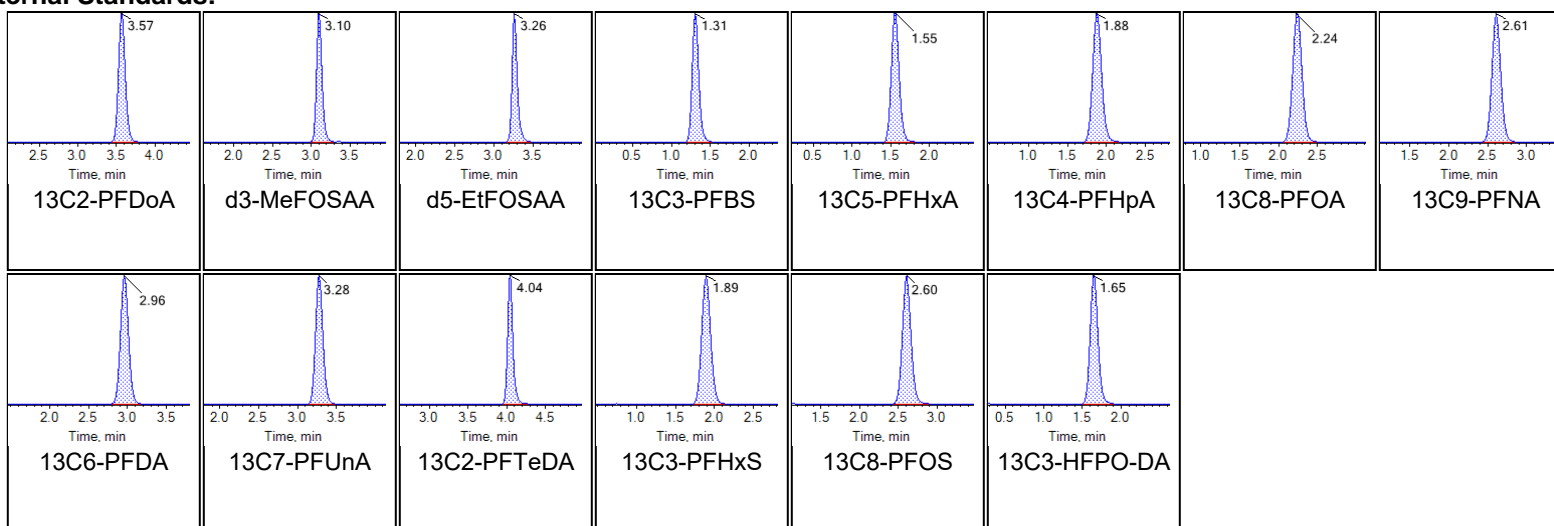




Chromatogram Report

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Internal Standards:





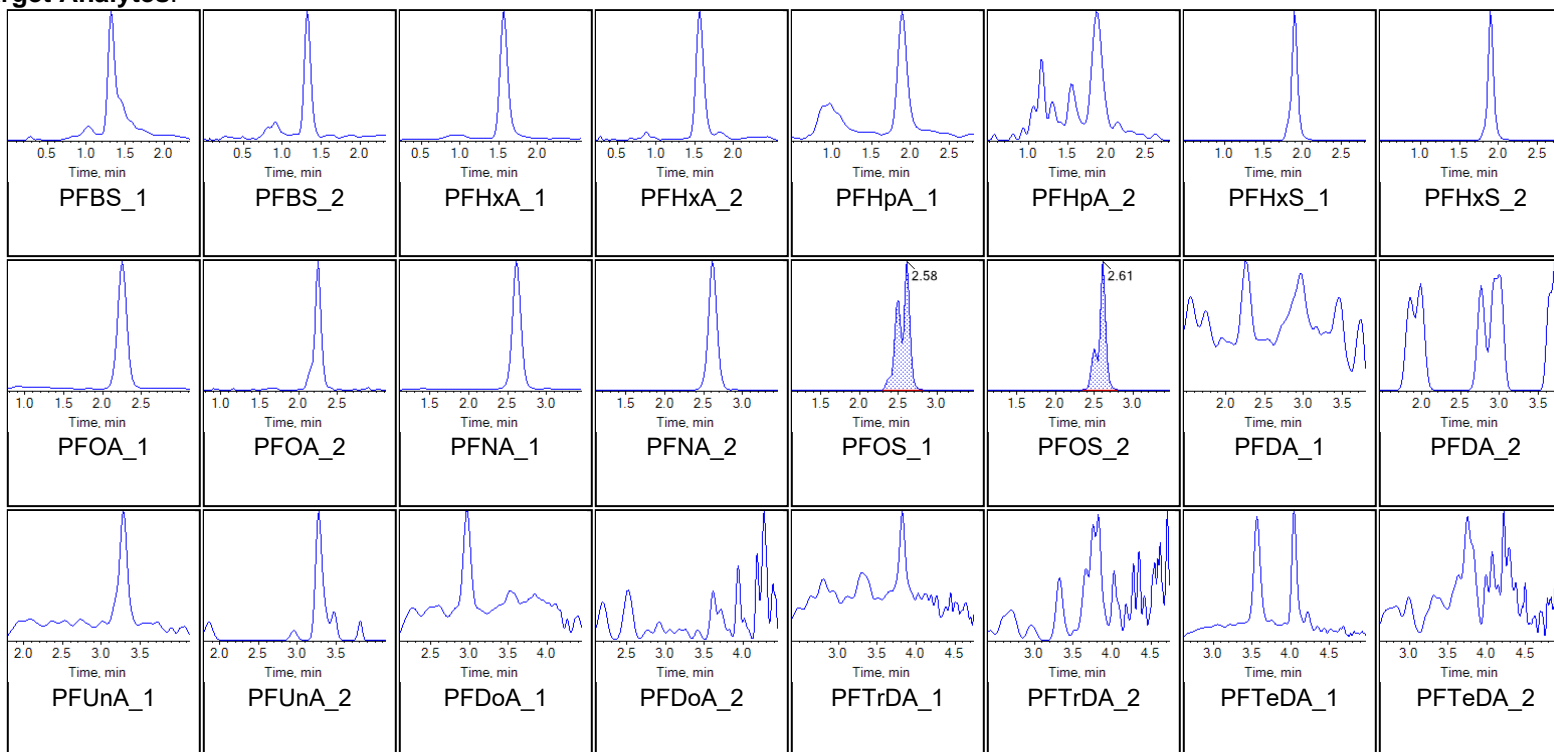
Chromatogram Report

Created with Analyst Reporter
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Sample Name	G1775-FS-D(7)	Injection Vial	23
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:53:30 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A

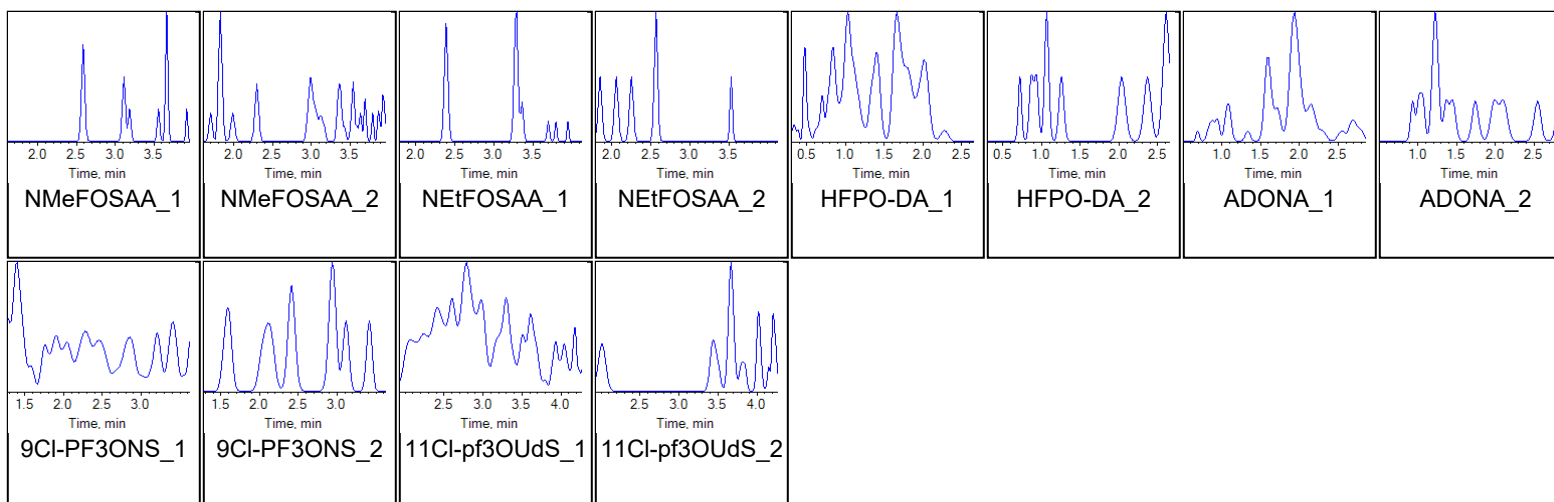
Chromatograms

Target Analytes:

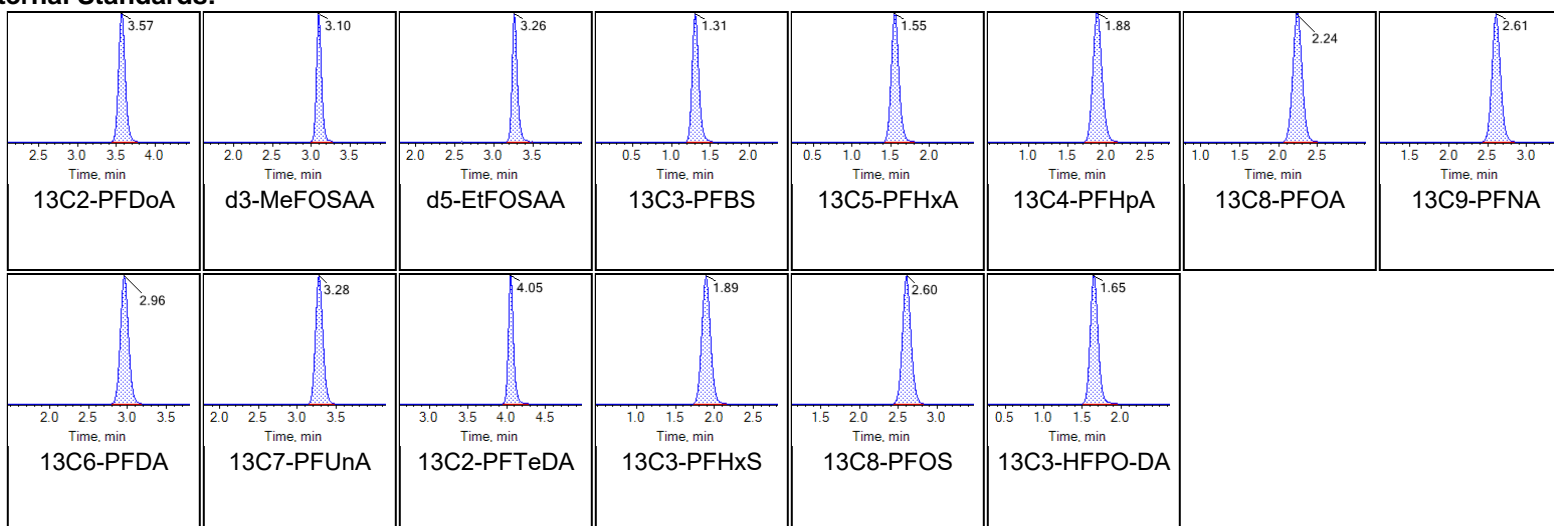




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Internal Standards:





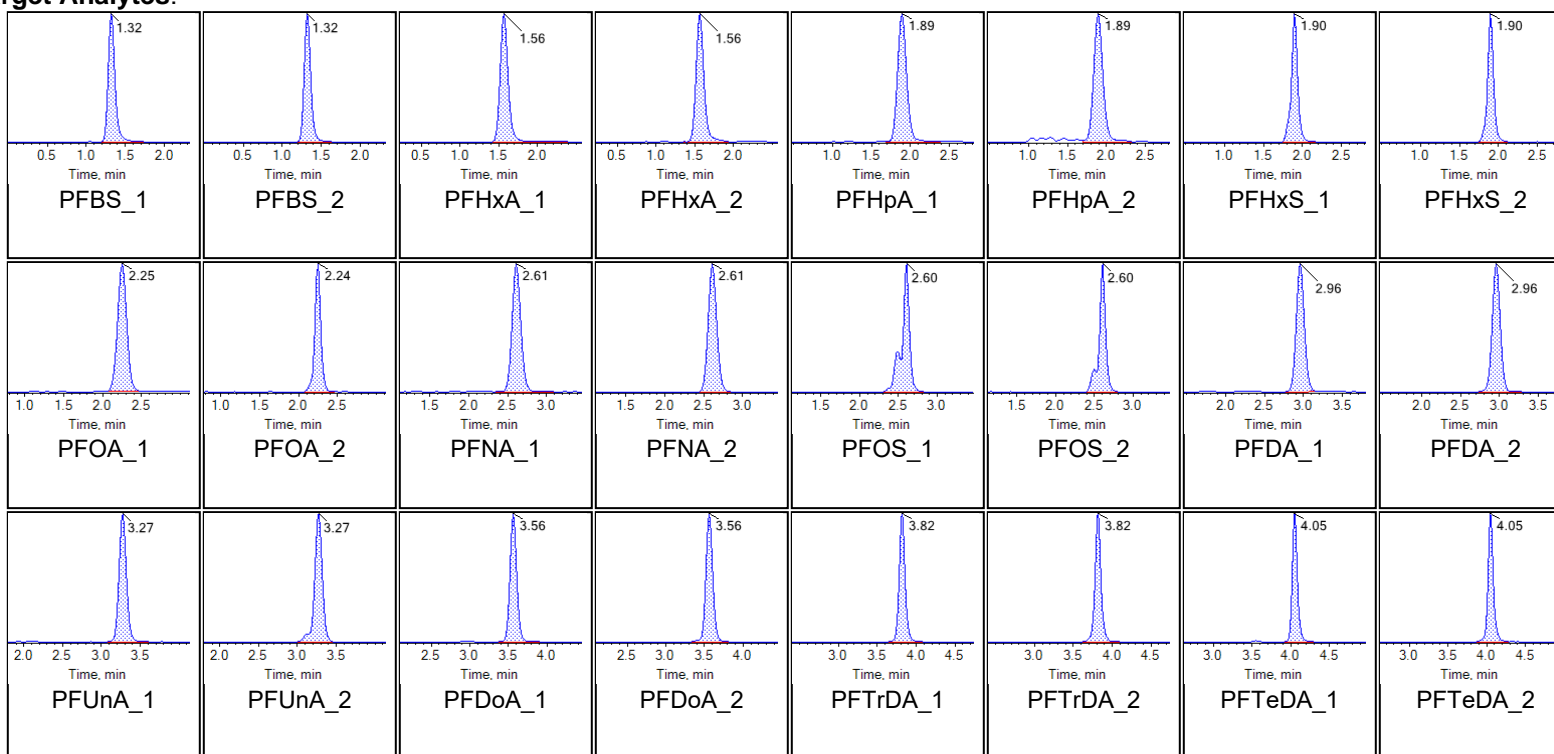
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 2:19:01 PM

Sample Name	LE54 CCV	Injection Vial	25
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	20-1321_A

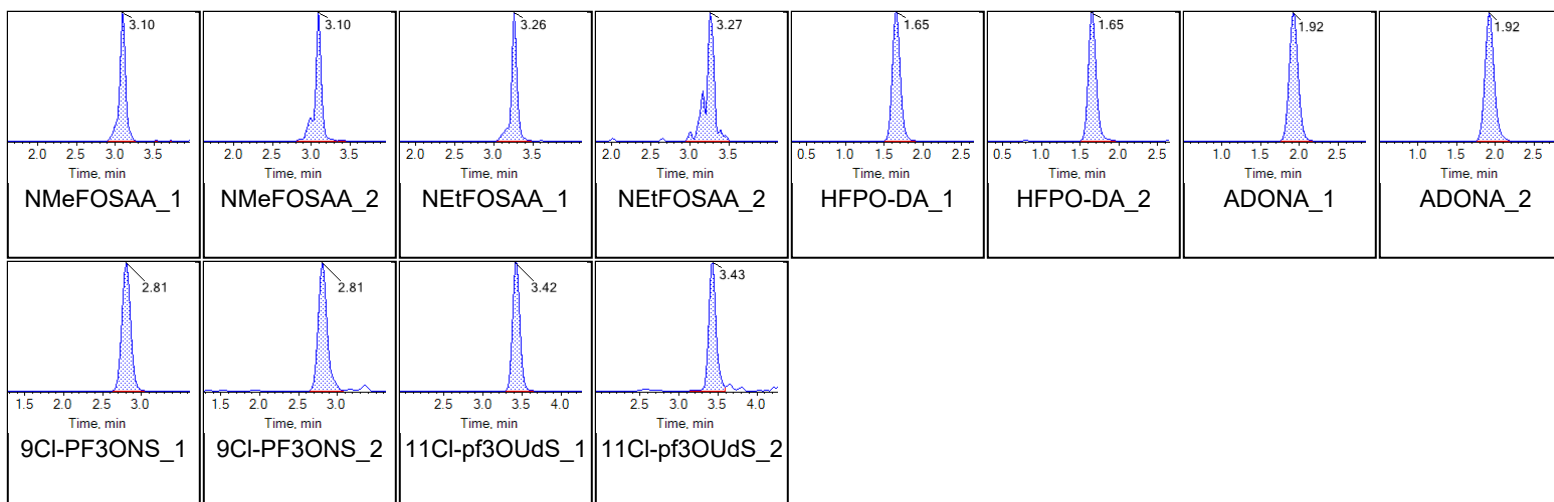
Chromatograms

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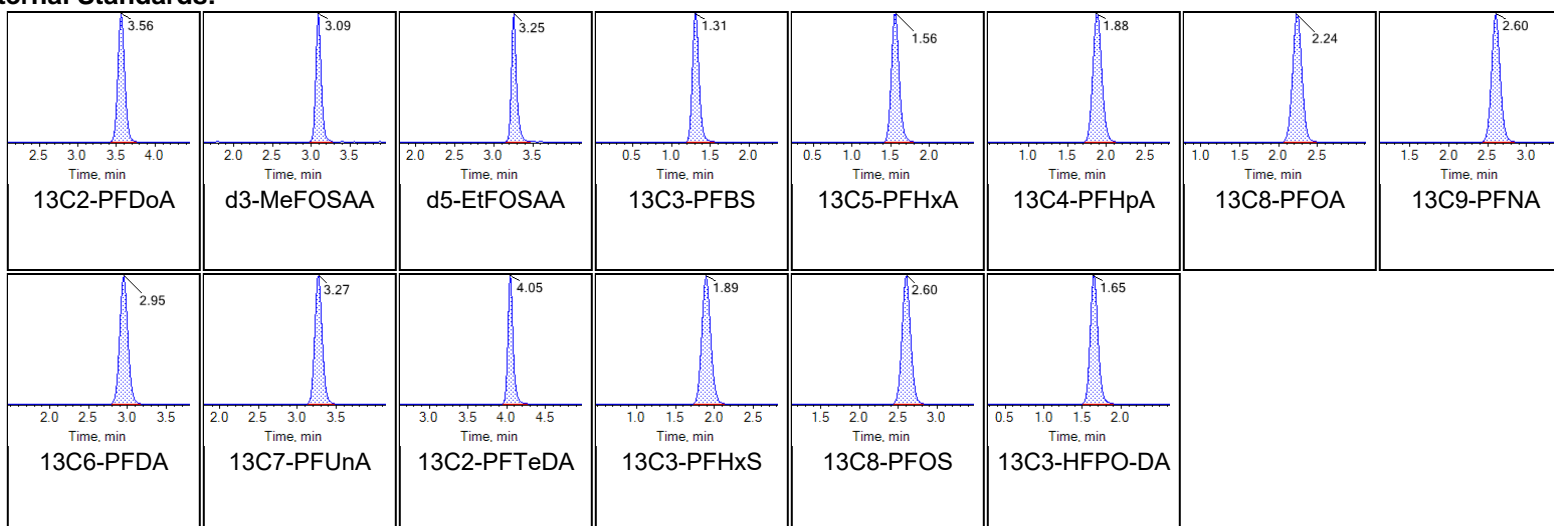




Chromatogram Report

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Internal Standards:





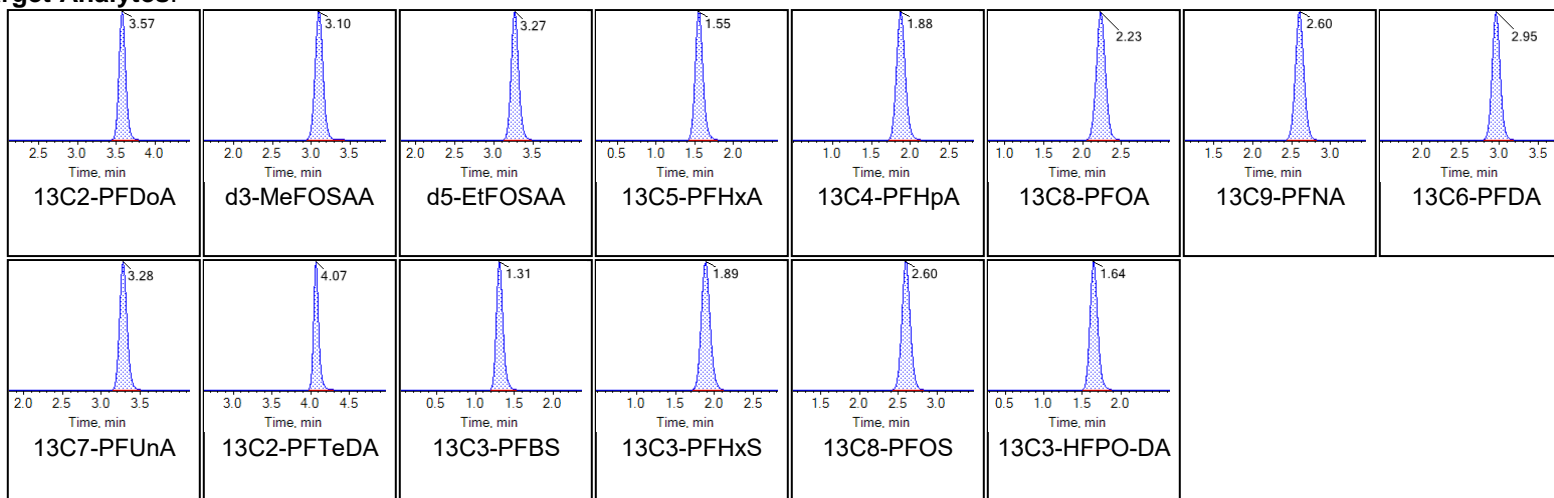
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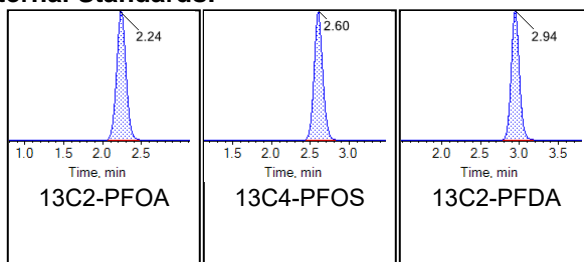
Sample Name	LE52	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:13:11 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





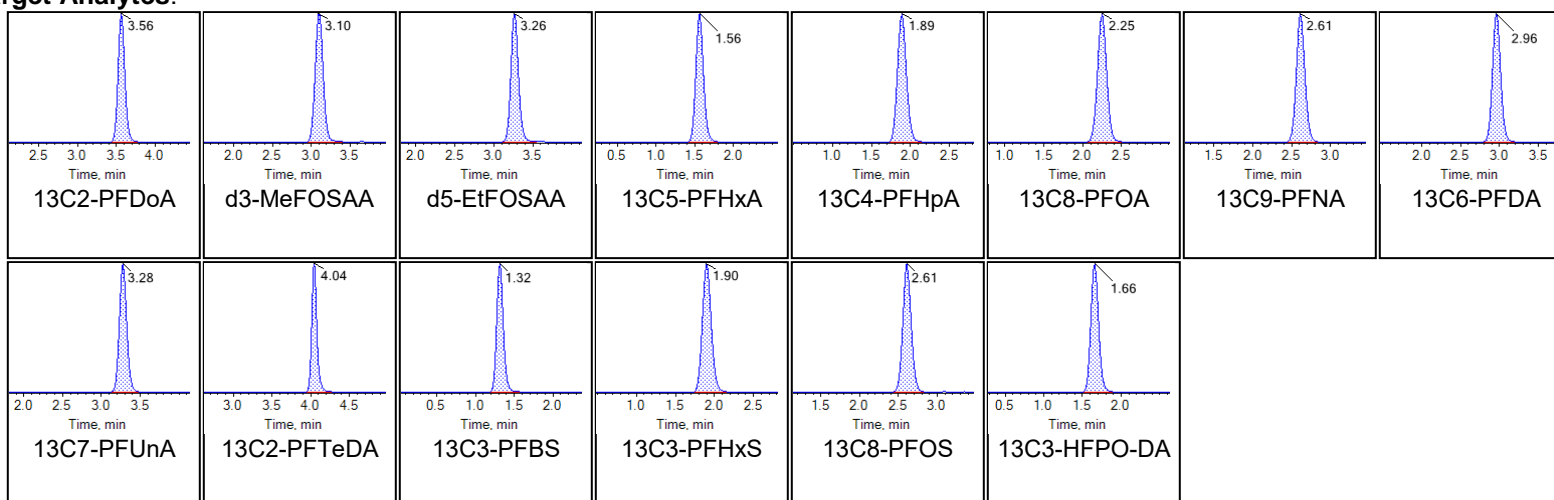
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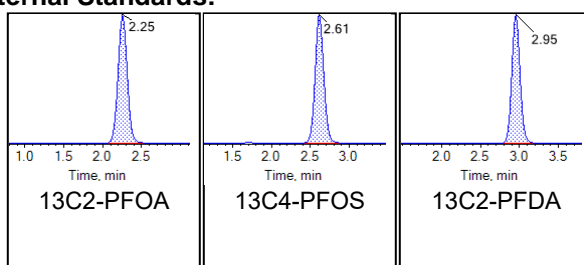
Sample Name	LE53	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:23:41 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





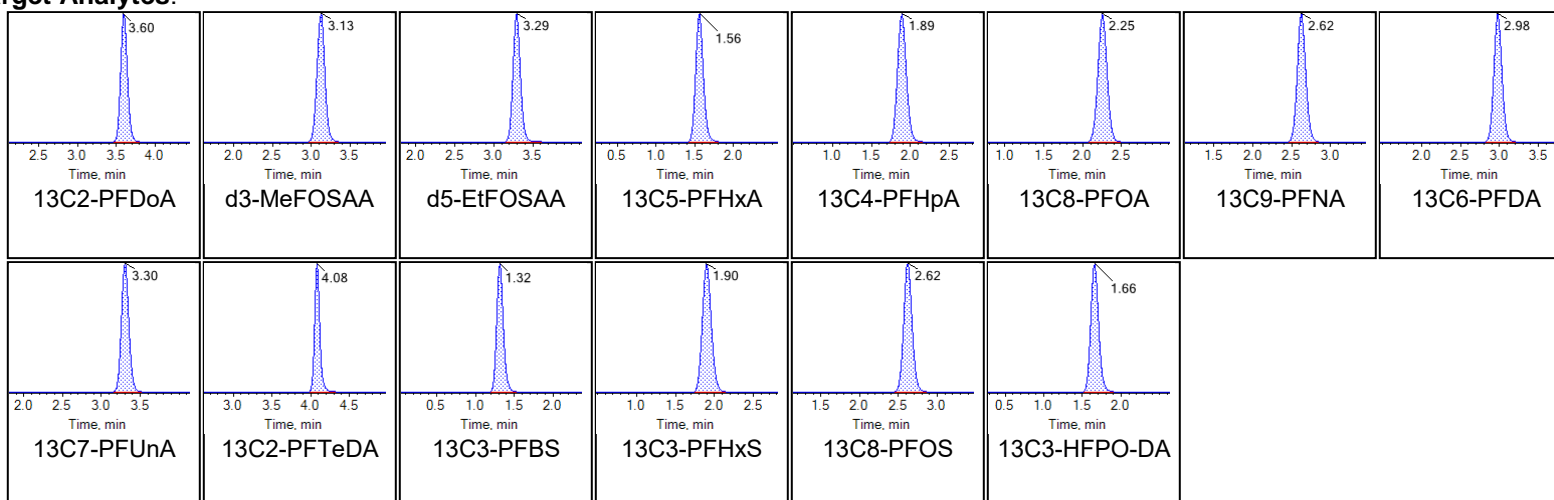
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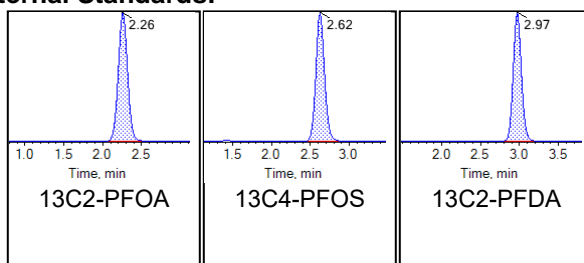
Sample Name	LE54	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:34:12 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





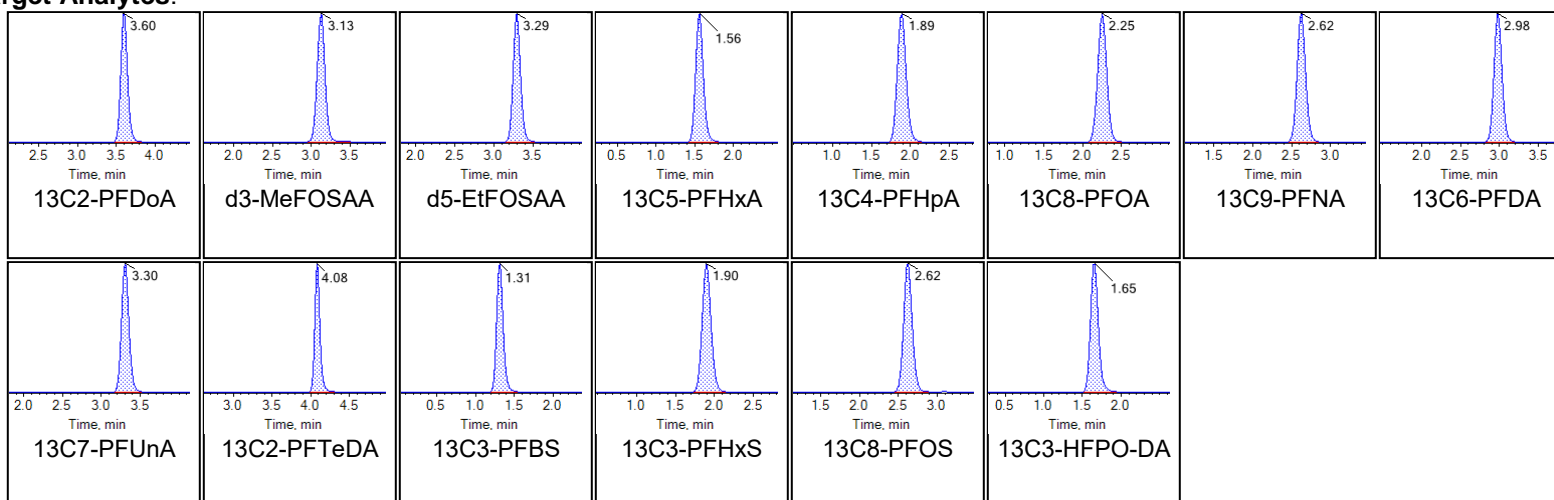
Chromatogram Report

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Printed: 13/11/2020 3:01:20 PM

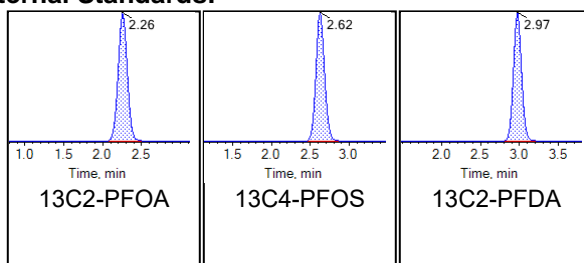
Sample Name	LE55	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:44:42 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





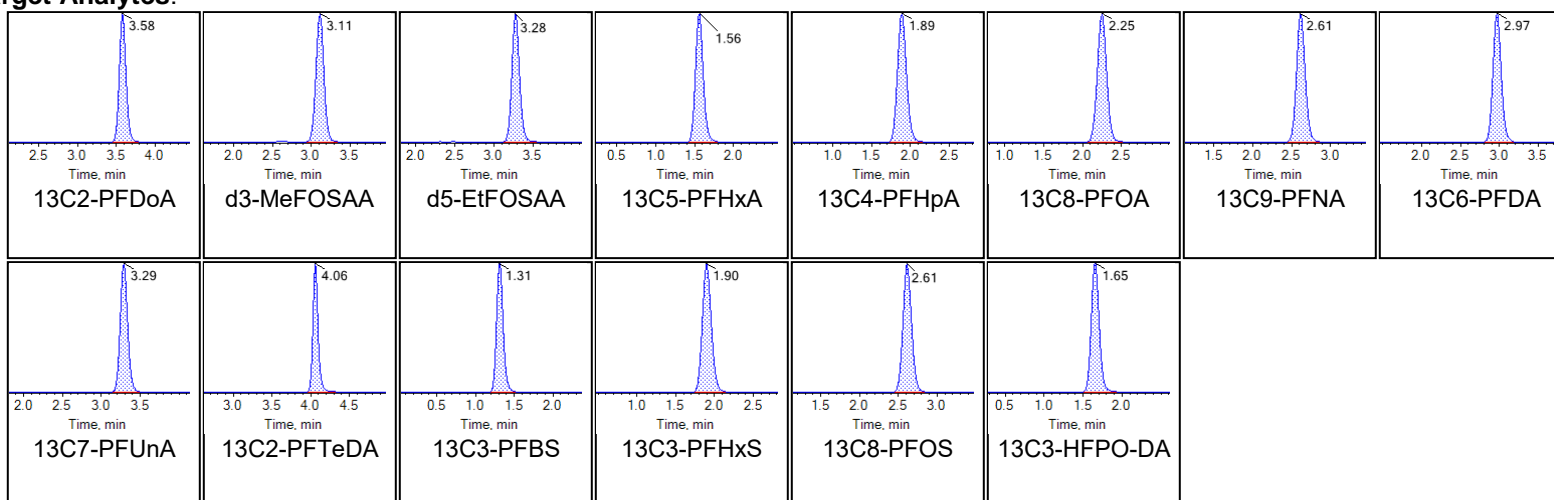
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Printed: 13/11/2020 3:01:20 PM

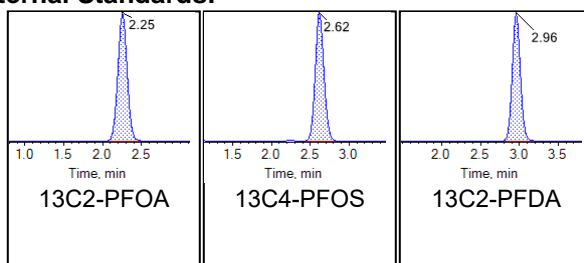
Sample Name	LE56	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 8:55:11 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





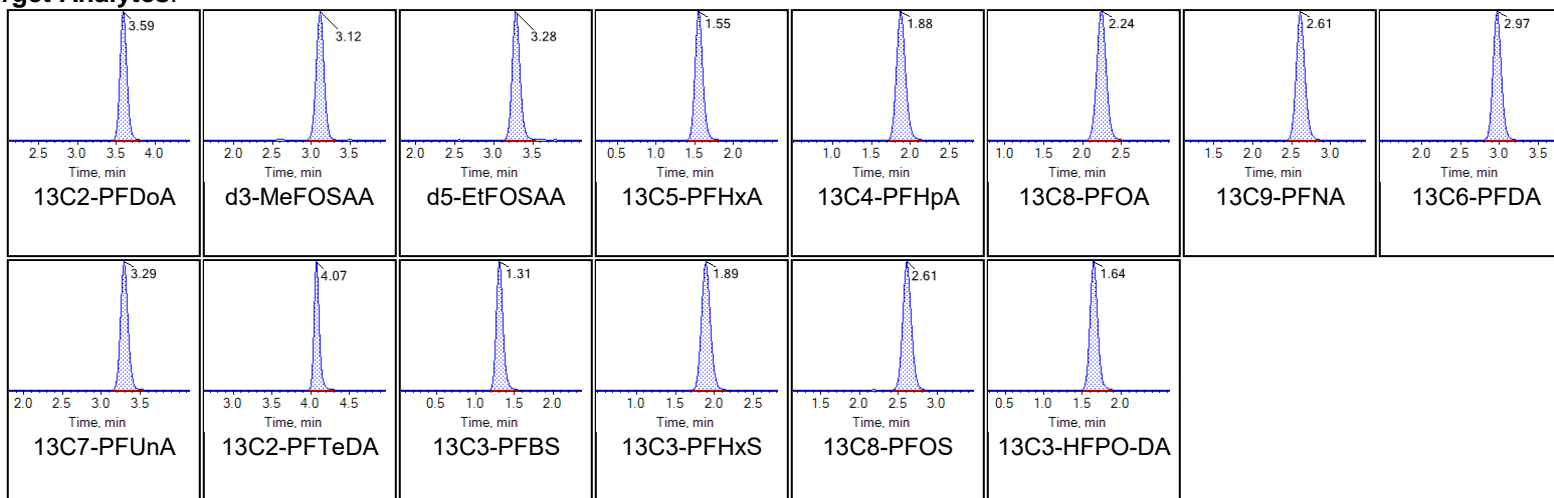
Chromatogram Report

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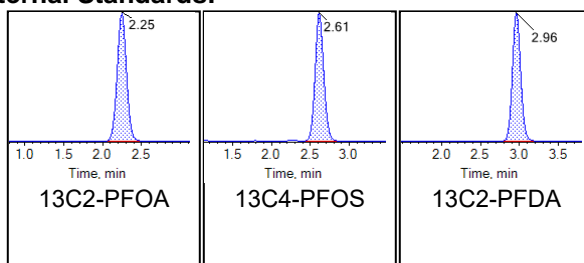
Sample Name	LE57	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:05:40 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





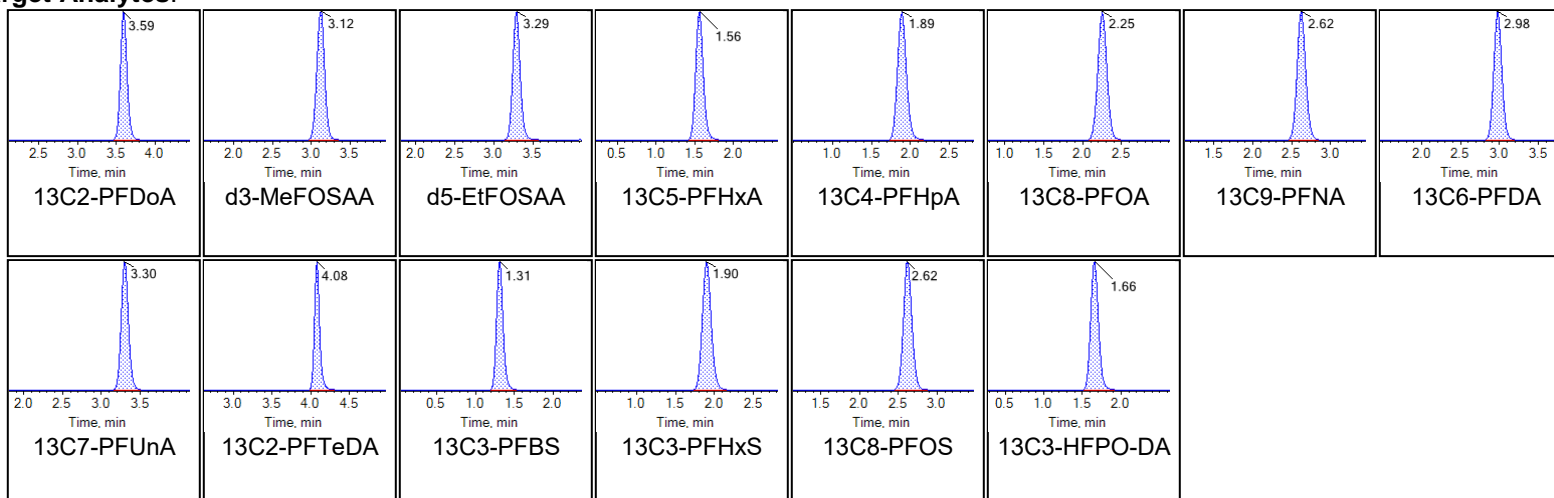
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 3:01:20 PM

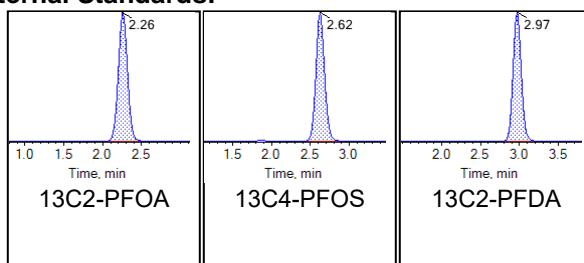
Sample Name	LE58 IB	Injection Vial	8
Sample ID	IB	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:16:09 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





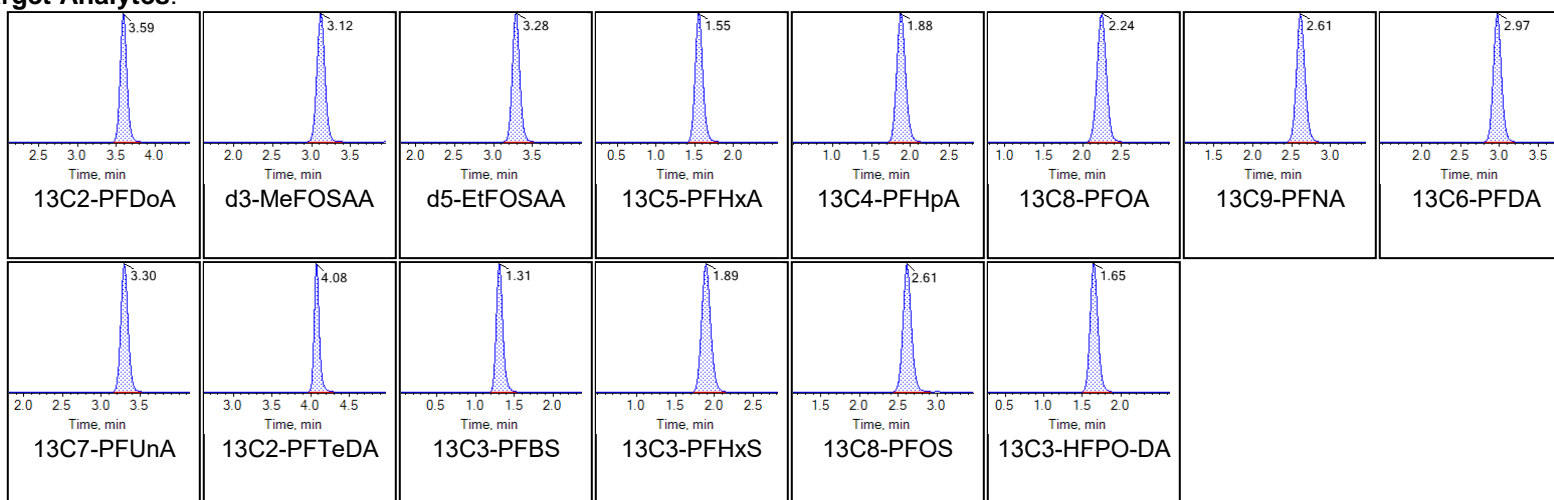
Chromatogram Report

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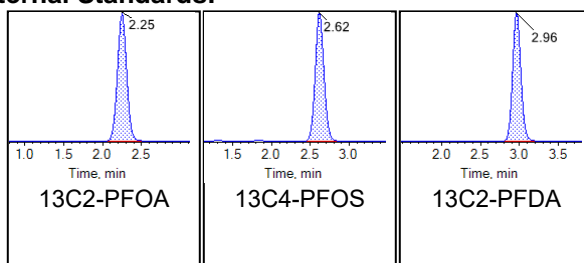
Sample Name	LE59 ICC	Injection Vial	9
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 9:26:38 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





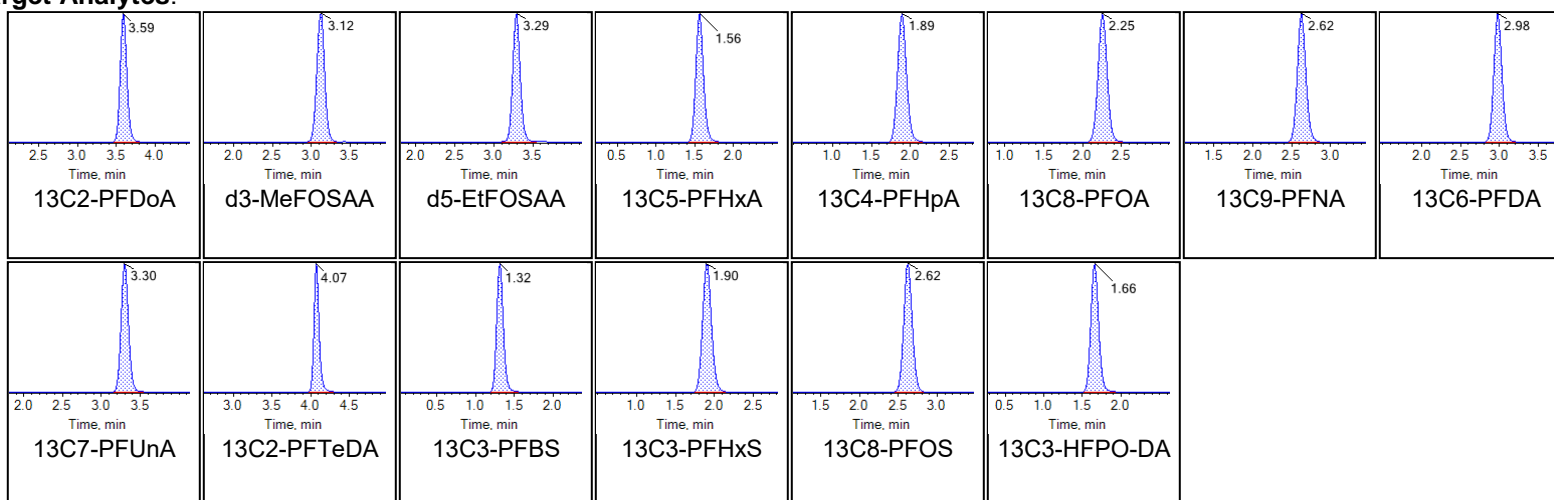
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 3:01:20 PM

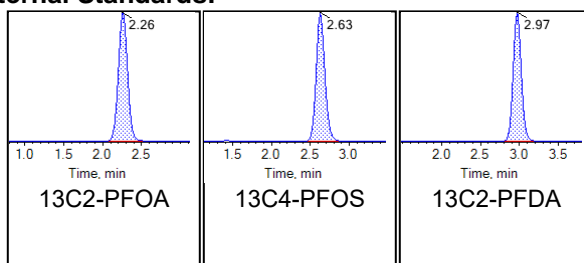
Sample Name	LE55 CCV	Injection Vial	19
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:11:33 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





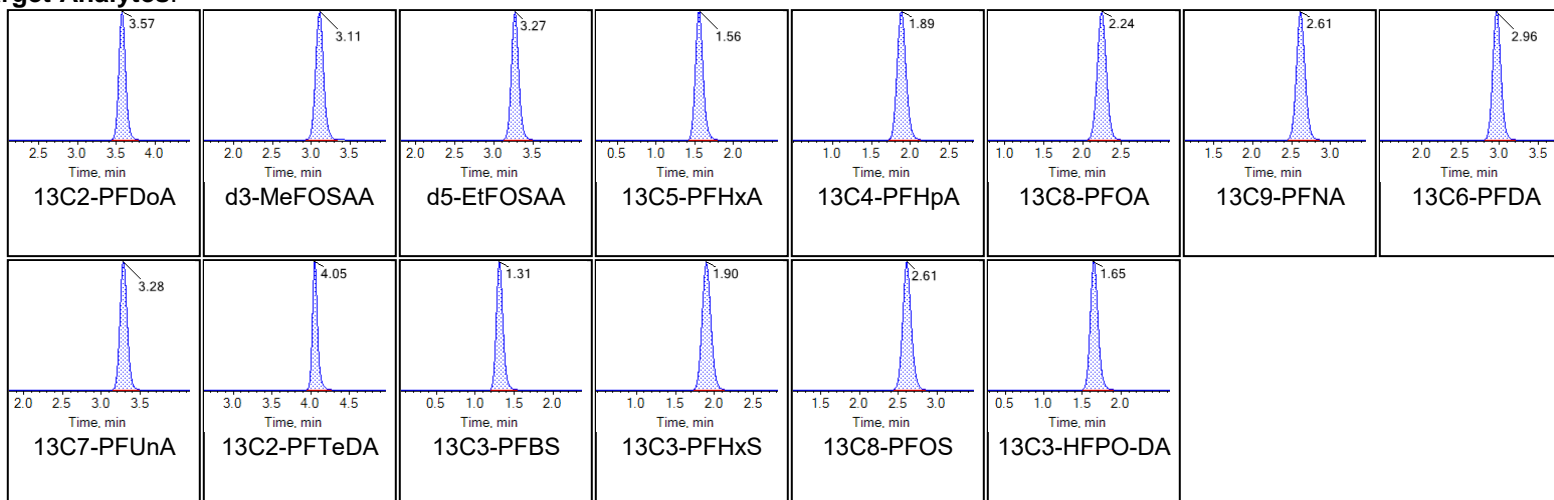
Chromatogram Report

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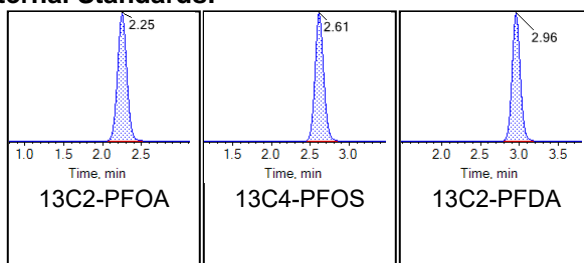
Sample Name	G1768-FS-D(13)	Injection Vial	21
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:32:32 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





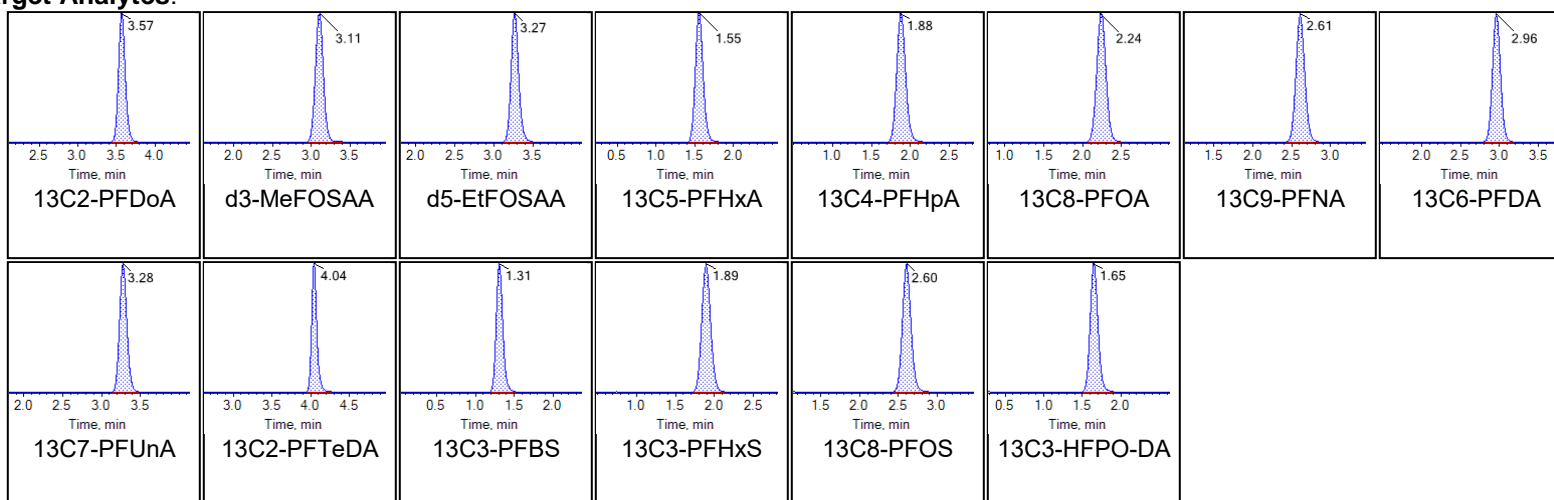
Chromatogram Report

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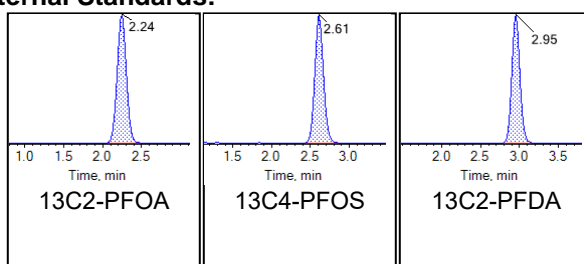
Sample Name	G1773-FS-D(9)	Injection Vial	22
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:43:01 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





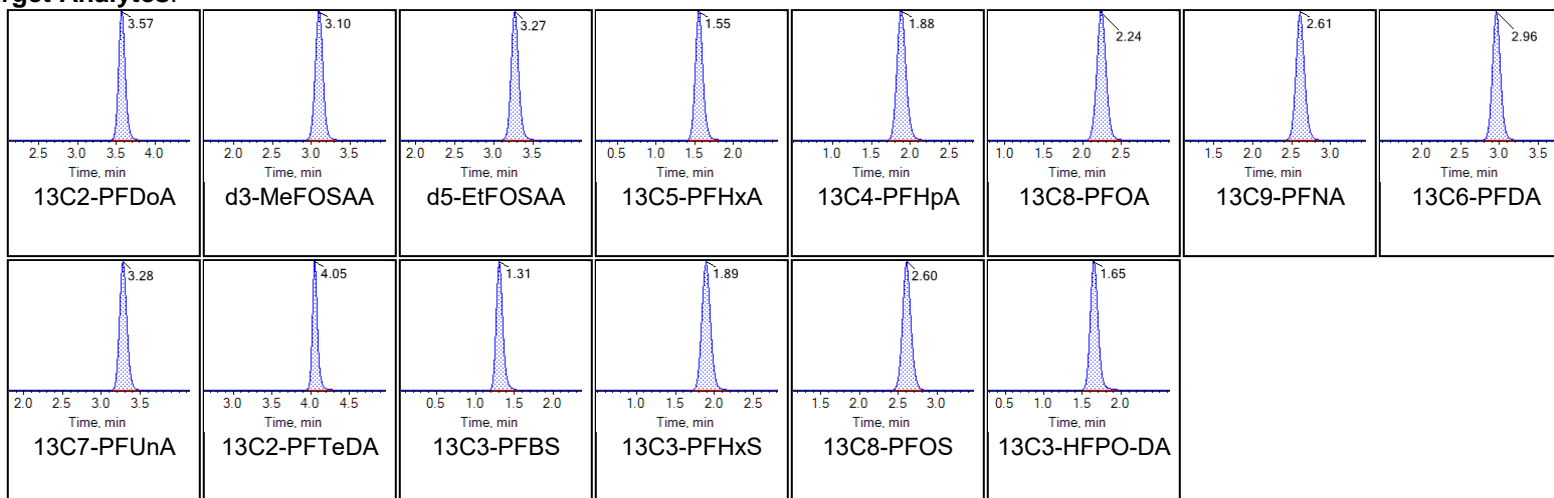
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 3:01:20 PM

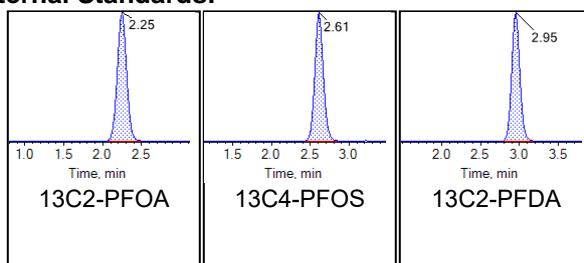
Sample Name	G1775-FS-D(7)	Injection Vial	23
Sample ID	CBD-SO3-MW01-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/12/2020 11:53:30 PM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:





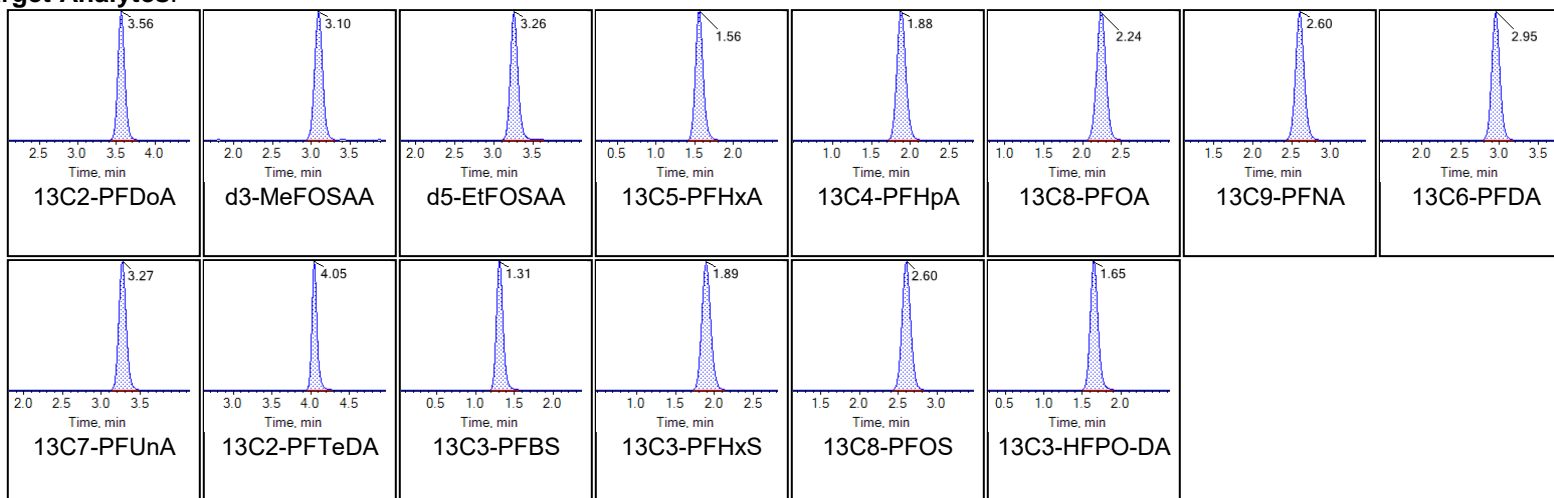
Chromatogram Report

Created with Analyst Reporter
Printed: 13/11/2020 3:01:20 PM

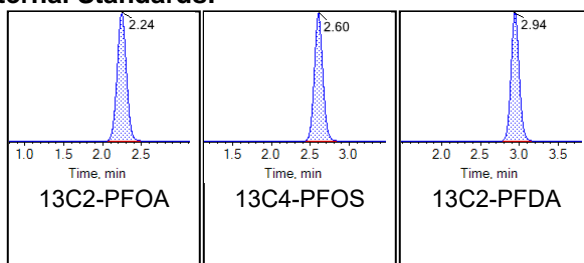
Sample Name	LE54 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/13/2020 12:14:28 AM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A

Chromatograms

Target Analytes:



Internal Standards:



Unused Data



Sample Name	G1770MS-FS(0)	Injection Vial	30
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/13/2020 1:06:54 AM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	33587727.30	157050.21	3291.7	False	13C3-PFBS	96078.14	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	11381297.61	156861.10	3534.2	False	13C3-PFBS	96078.14	1162.50	PFBS	0.339	0.323	✓
PFHxA_1	313.0 / 269.0	1.57	162973066.06	879687.35	1544.4	False	13C5-PFHxA	205732.26	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.58	8447318.87	695292.65	1556.4	False	13C5-PFHxA	205732.26	1250.00	PFHxA	0.052	0.061	✓
PFHpA_1	363.0 / 319.0	1.89	30973090.35	305059.69	660.3	False	13C4-PFHpA	135101.11	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.87	1827343.20	549954.85	1795.2	False	13C4-PFHpA	135101.11	1250.00	PFHpA	0.059	0.031	
PFHxS_1	399.0 / 80.0	1.90	233518114.62	2476550.08	2626.5	False	13C3-PFHxS	34367.12	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	75467346.18	2196852.47	4729.8	False	13C3-PFHxS	34367.12	1182.50	PFHxS	0.323	0.368	✓
PFOA_1	413.0 / 369.0	2.26	240290741.73	1823632.72	1517.8	False	13C8-PFOA	185349.93	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.25	24449857.31	1744457.53	3567.8	False	13C8-PFOA	185349.93	1222.50	PFOA	0.102	0.097	✓
PFNA_1	463.0 / 419.0	2.62	85053711.33	867312.48	1913.1	False	13C9-PFNA	138833.35	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.62	27371353.06	826029.02	2380.8	False	13C9-PFNA	138833.35	1250.00	PFNA	0.322	0.334	✓
PFOS_1	499.0 / 80.0	2.55	484920113.61	7967936.50	2468.1	False	13C8-PFOS	18503.26	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.61	87241086.37	6909121.05	3553.8	False	13C8-PFOS	18503.26	1195.00	PFOS	0.180	0.207	✓
PFDA_1	513.0 / 469.0	2.98	15340544.01	22882.52	1357.1	False	13C6-PFDA	861991.80	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.98	1262739.95	31173.15	1681.2	False	13C6-PFDA	861991.80	1250.00	PFDA	0.082	0.058	✓
PFUnA_1	563.0 / 519.0	3.29	12011258.62	14682.49	1756.4	False	13C7-PFUnA	905692.14	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.29	723294.42	13142.24	1808.9	False	13C7-PFUnA	905692.14	1250.00	PFUnA	0.060	0.063	✓
PFDoA_1	613.0 / 569.0	3.58	11607281.30	11731.53	2528.4	False	13C2-PFDoA	1282150.56	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.58	1486829.76	11680.31	2767.5	False	13C2-PFDoA	1282150.56	1250.00	PFDoA	0.128	0.120	✓
PFTTrDA_1	663.0 / 619.0	3.83	10445200.67	11039.98	3504.7	False	13C2-PFTeDA	1273352.13	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.83	849856.53	11537.55	3174.8	False	13C2-PFTeDA	1273352.13	1250.00	PFTTrDA	0.081	0.073	✓
PFTeDA_1	713.0 / 669.0	4.06	12123766.06	11619.48	4327.0	False	13C2-PFTeDA	1273352.13	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.06	735795.52	11996.69	4393.6	False	13C2-PFTeDA	1273352.13	1250.00	PFTeDA	0.061	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.12	1718745.91	17534.25	2708.6	False	d3-MeFOSAA	158711.31	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.12	1434819.18	13940.64	1644.1	False	d3-MeFOSAA	158711.31	1250.00	NMeFOSAA	0.835	1.110	✓
NEtFOSAA_1	584.0 / 419.0	3.28	1349105.98	10594.37	1687.0	False	d5-EtFOSAA	156864.09	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.28	78030.27	10260.11	639.4	False	d5-EtFOSAA	156864.09	1250.00	NEtFOSAA	0.058	0.061	✓
HFPO-DA_1	285.0 / 169.0	1.66	5136199.34	6593.22	2079.7	False	13C3-HFPO-DA	308200.85	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	139932.06	7573.68	1647.7	False	13C3-HFPO-DA	308200.85	1250.00	HFPO-DA	0.027	0.023	✓
ADONA_1	377.0 / 251.0	1.94	5106043.63	17161.69	2152.5	False	13C8-PFOA	185349.93	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	84324.60	17862.31	514.6	False	13C8-PFOA	185349.93	1222.50	ADONA	0.017	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	2.83	9645575.64	60898.77	3483.2	False	13C8-PFOA	185349.93	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.83	104012.23	58668.12	670.2	False	13C8-PFOA	185349.93	1222.50	9CI-PF3ONS	0.011	0.011	✓
11Cl-pf3OUdS_1	631.0 / 451.0	3.45	8483982.91	69009.50	5460.4	False	13C8-PFOA	185349.93	1222.50	11Cl-PF3OUdS			
11Cl-pf3OUdS_2	631.0 / 83.0	3.45	44678.85	68419.07	873.9	False	13C8-PFOA	185349.93	1222.50	11Cl-PF3OUdS	0.005	0.005	✓

Sample Name	G1771MSD-FS(0)	Injection Vial	31
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/13/2020 1:17:24 AM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_A
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	34096219.01	139634.85	3786.1	False	13C3-PFBS	109686.73	1162.50	PFBS			
PFBS_2	298.9 / 99.0	1.33	11196697.94	135161.66	3523.1	False	13C3-PFBS	109686.73	1162.50	PFBS	0.328	0.323	✓
PFHxA_1	313.0 / 269.0	1.57	159095520.02	804797.91	1619.4	False	13C5-PFHxA	219523.32	1250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.57	8182968.99	631216.46	1573.5	False	13C5-PFHxA	219523.32	1250.00	PFHxA	0.051	0.061	✓
PFHpA_1	363.0 / 319.0	1.89	32140048.33	302302.10	651.3	False	13C4-PFHpA	141469.75	1250.00	PFHpA			
PFHpA_2	363.0 / 169.0	1.86	1842270.23	529485.92	1803.5	False	13C4-PFHpA	141469.75	1250.00	PFHpA	0.057	0.031	
PFHxS_1	399.0 / 80.0	1.89	236580758.82	2525947.83	2979.5	False	13C3-PFHxS	34136.97	1182.50	PFHxS			
PFHxS_2	399.0 / 99.0	1.90	75056458.88	2199622.12	4887.0	False	13C3-PFHxS	34136.97	1182.50	PFHxS	0.317	0.368	✓
PFOA_1	413.0 / 369.0	2.25	235345866.71	1515050.75	1455.6	False	13C8-PFOA	218508.80	1222.50	PFOA			
PFOA_2	413.0 / 169.0	2.24	23237822.67	1406383.90	3287.3	False	13C8-PFOA	218508.80	1222.50	PFOA	0.099	0.097	✓
PFNA_1	463.0 / 419.0	2.61	82488625.60	774621.76	1869.4	False	13C9-PFNA	150757.20	1250.00	PFNA			
PFNA_2	463.0 / 219.0	2.61	25766784.43	716098.14	2241.7	False	13C9-PFNA	150757.20	1250.00	PFNA	0.312	0.334	✓
PFOS_1	499.0 / 80.0	2.53	450948759.69	5264484.00	2564.3	False	13C8-PFOS	26043.24	1195.00	PFOS			
PFOS_2	499.0 / 99.0	2.60	82668903.21	4651541.64	4166.0	False	13C8-PFOS	26043.24	1195.00	PFOS	0.183	0.207	✓
PFDA_1	513.0 / 469.0	2.95	14958916.37	20732.63	1097.1	False	13C6-PFDA	927585.84	1250.00	PFDA			
PFDA_2	513.0 / 219.0	2.95	1129619.56	25916.40	1439.8	False	13C6-PFDA	927585.84	1250.00	PFDA	0.076	0.058	✓
PFUnA_1	563.0 / 519.0	3.26	11996738.84	12813.87	2030.9	False	13C7-PFUnA	1035916.36	1250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.26	754280.16	11982.22	1995.9	False	13C7-PFUnA	1035916.36	1250.00	PFUnA	0.063	0.063	✓
PFDoA_1	613.0 / 569.0	3.55	11703106.00	11571.00	2409.1	False	13C2-PFDoA	1310520.63	1250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.55	1465434.41	11261.94	3761.1	False	13C2-PFDoA	1310520.63	1250.00	PFDoA	0.125	0.120	✓
PFTTrDA_1	663.0 / 619.0	3.80	9761092.44	10825.25	3423.7	False	13C2-PFTTeDA	1213363.54	1250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	3.79	765458.38	10903.99	3439.9	False	13C2-PFTTeDA	1213363.54	1250.00	PFTTrDA	0.078	0.073	✓
PFTeDA_1	713.0 / 669.0	4.01	10661465.20	10717.43	3920.1	False	13C2-PFTeDA	1213363.54	1250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.01	657672.15	11251.53	3498.0	False	13C2-PFTeDA	1213363.54	1250.00	PFTeDA	0.062	0.056	✓
NMeFOSAA_1	570.0 / 419.0	3.09	1799001.65	14958.27	3027.2	False	d3-MeFOSAA	195061.55	1250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.09	1497778.60	11799.39	1817.3	False	d3-MeFOSAA	195061.55	1250.00	NMeFOSAA	0.833	1.110	✓
NEtFOSAA_1	584.0 / 419.0	3.26	1504322.66	10728.44	2042.1	False	d5-EtFOSAA	172549.25	1250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.26	78755.21	9471.00	760.2	False	d5-EtFOSAA	172549.25	1250.00	NEtFOSAA	0.052	0.061	✓
HFPO-DA_1	285.0 / 169.0	1.66	5533333.51	6384.06	2200.6	False	13C3-HFPO-DA	342138.58	1250.00	HFPO-DA			
HFPO-DA_2	285.0 / 118.8	1.66	143522.02	6951.63	1457.4	False	13C3-HFPO-DA	342138.58	1250.00	HFPO-DA	0.026	0.023	✓
ADONA_1	377.0 / 251.0	1.94	5440544.68	15507.89	2540.0	False	13C8-PFOA	218508.80	1222.50	ADONA			
ADONA_2	377.0 / 85.0	1.94	89195.32	16033.38	601.5	False	13C8-PFOA	218508.80	1222.50	ADONA	0.016	0.014	✓
9CI-PF3ONS_1	531.0 / 351.0	2.80	10288219.65	55100.70	4199.6	False	13C8-PFOA	218508.80	1222.50	9CI-PF3ONS			
9CI-PF3ONS_2	531.0 / 83.0	2.81	105590.27	50528.97	590.6	False	13C8-PFOA	218508.80	1222.50	9CI-PF3ONS	0.010	0.011	✓
11CI-pf3OUdS_1	631.0 / 451.0	3.42	8701834.04	60044.64	3571.2	False	13C8-PFOA	218508.80	1222.50	11CI-PF3OUdS			
11CI-pf3OUdS_2	631.0 / 83.0	3.41	42706.01	55485.84	965.4	False	13C8-PFOA	218508.80	1222.50	11CI-PF3OUdS	0.005	0.005	✓

Sample Name	G1768-FS(0)	Injection Vial	29
Sample ID	CBD-AOA-MW03-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/13/2020 12:56:24 AM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1249438.18	3396.13	3350.5	False	13C2-PFDA	355408.48	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.10	133463.42	18674.96	792.6	False	13C4-PFOS	9921.83	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.26	79170.86	11829.67	518.5	False	13C4-PFOS	9921.83	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	129802.49	387.63	367.1	False	13C2-PFOA	272874.16	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.87	62408.34	191.07	307.8	False	13C2-PFOA	272874.16	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	127444.53	304.44	568.6	False	13C2-PFOA	272874.16	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.58	39166.45	99.93	325.0	False	13C2-PFOA	272874.16	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	348332.90	1044.16	1816.9	False	13C2-PFDA	355408.48	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.28	617465.77	2075.56	2064.1	False	13C2-PFDA	355408.48	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.02	1275183.98	3970.76	4792.0	False	13C2-PFDA	355408.48	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	68447.41	5826.77	1095.1	False	13C4-PFOS	9921.83	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	17724.03	1875.12	102.4	False	13C4-PFOS	9921.83	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.59	12473.00	1413.22	53.3	False	13C4-PFOS	9921.83	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	284045.20	2376.49	988.5	False	13C2-PFOA	272874.16	1250.00		N/A	N/A	✓

Sample Name	G1770MS-FS(0)	Injection Vial	30
Sample ID	CBD-AOA-MW08-1020-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/13/2020 1:06:54 AM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1282150.56	1409.43	4013.1	False	13C2-PFDA	878805.52	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.12	158681.36	9102.67	973.8	False	13C4-PFOS	24201.72	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.28	156659.20	9596.41	1232.9	False	13C4-PFOS	24201.72	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	205732.26	423.79	543.9	False	13C2-PFOA	395597.60	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.89	135101.11	285.31	489.4	False	13C2-PFOA	395597.60	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.26	185349.93	305.41	560.3	False	13C2-PFOA	395597.60	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	138833.35	244.33	613.7	False	13C2-PFOA	395597.60	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.97	861991.80	1044.99	1897.9	False	13C2-PFDA	878805.52	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.29	905692.14	1231.22	2887.2	False	13C2-PFDA	878805.52	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.05	1273352.13	1603.56	4513.8	False	13C2-PFDA	878805.52	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	96078.14	3353.06	1710.5	False	13C4-PFOS	24201.72	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	34367.12	1490.58	244.7	False	13C4-PFOS	24201.72	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	18503.26	859.47	134.6	False	13C4-PFOS	24201.72	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	308200.85	1778.65	1843.2	False	13C2-PFOA	395597.60	1250.00		N/A	N/A	✓

Sample Name	G1771MSD-FS(0)	Injection Vial	31
Sample ID	CBD-AOA-MW08-1020-SD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/13/2020 1:17:24 AM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1310520.63	1329.82	3627.9	False	13C2-PFDA	952021.23	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.09	193637.37	10137.60	1371.3	False	13C4-PFOS	26518.14	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.25	172256.66	9630.12	974.3	False	13C4-PFOS	26518.14	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	219523.32	454.48	541.1	False	13C2-PFOA	393605.55	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	141469.75	300.28	591.8	False	13C2-PFOA	393605.55	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	218508.80	361.87	778.0	False	13C2-PFOA	393605.55	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.61	150757.20	266.65	767.3	False	13C2-PFOA	393605.55	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.95	927585.84	1038.03	3593.9	False	13C2-PFDA	952021.23	1250.00		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.0	3.26	1035916.36	1299.95	2914.8	False	13C2-PFDA	952021.23	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.01	1213363.54	1410.50	3903.7	False	13C2-PFDA	952021.23	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	109686.73	3493.60	1786.1	False	13C4-PFOS	26518.14	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	34136.97	1351.26	229.7	False	13C4-PFOS	26518.14	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.59	26043.24	1104.04	176.1	False	13C4-PFOS	26518.14	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.66	342138.58	1984.50	1811.0	False	13C2-PFOA	393605.55	1250.00		N/A	N/A	✓

Sample Name	G1773-FS(0)	Injection Vial	32
Sample ID	CBD-AOA-MW18-1020	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	Triple Quad 6500+ Low Mass
Acquisition Date	11/13/2020 1:27:54 AM	Data File	AE_11122020_5-369.wiff
Acquisition Method	5-369.dam	Result Table	20-1321_SIS_A
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	1004547.27	993.36	3706.5	False	13C2-PFDA	976927.12	1250.00				
d3-MeFOSAA	573.0 / 419.0	3.11	139634.99	2904.12	803.6	False	13C4-PFOS	66752.59	1195.00		N/A	N/A	✓
d5-EtFOSAA	589.0 / 419.0	3.27	145012.33	3220.59	1131.0	False	13C4-PFOS	66752.59	1195.00		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	1.56	322758.62	554.11	681.7	False	13C2-PFOA	474660.44	1250.00		N/A	N/A	✓
13C4-PFHpA	367.0 / 322.0	1.88	219353.78	386.08	587.7	False	13C2-PFOA	474660.44	1250.00		N/A	N/A	✓
13C8-PFOA	421.0 / 376.0	2.25	483608.15	664.13	1274.7	False	13C2-PFOA	474660.44	1250.00		N/A	N/A	✓
13C9-PFNA	472.0 / 427.0	2.62	310962.06	456.09	847.7	False	13C2-PFOA	474660.44	1250.00		N/A	N/A	✓
13C6-PFDA	519.0 / 474.0	2.96	984678.86	1073.82	2583.0	False	13C2-PFDA	976927.12	1250.00		N/A	N/A	✓
13C7-PFUxA	570.0 / 525.0	3.29	891614.26	1090.35	3211.1	False	13C2-PFDA	976927.12	1250.00		N/A	N/A	✓
13C2-PFTeDA	715.0 / 670.0	4.06	385945.04	437.21	3960.2	False	13C2-PFDA	976927.12	1250.00		N/A	N/A	✓
13C3-PFBS	302.0 / 99.0	1.32	138030.64	1746.51	1466.0	False	13C4-PFOS	66752.59	1195.00		N/A	N/A	✓
13C3-PFHxS	402.0 / 99.0	1.90	60059.51	944.44	304.1	False	13C4-PFOS	66752.59	1195.00		N/A	N/A	✓
13C8-PFOS	507.0 / 99.0	2.62	51502.49	867.34	224.6	False	13C4-PFOS	66752.59	1195.00		N/A	N/A	✓
13C3-HFPO-DA	287.0 / 169.0	1.65	277711.99	1335.74	777.2	False	13C2-PFOA	474660.44	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
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluorohexanoic Acid (PFHxA)	307-24-4	1.47	1.47	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluoroheptanoic Acid (PFHpA)	375-85-9	0.98	0.98	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluorooctanoic Acid (PFOA)	335-67-1	1.47	1.47	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluorononanoic Acid (PFNA)	375-95-1	0.98	0.98	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	0.49	0.49	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.49	0.49	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	0.49	0.49	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluorotridecanoic Acid (PFTriDA)	72629-94-8	0.49	0.49	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.96	1.96	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.98	0.98	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.98	0.98	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.49	0.49	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.39	0.39	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluorooctane Sulfonate (PFOS)	1763-23-1	0.98	0.98	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.49	0.49	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.98	0.98	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			11-chloroicosafuoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.98	0.98	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.49	0.49	NG L	U	U	U
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C5-PFHxA	BDO-2217	90	90	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C4-PFHpA	BDO-2218	84	84	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C8-PFOA	BDO-2219	83	83	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C9-PFNA	BDO-2221	88	88	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C6-PFDA	BDO-2222	91	91	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C7-PFUnA	BDO-2223	92	92	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C2-PFDoA	BDO-2112	91	91	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C2-PFTeDA	BDO-2224	86	86	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			d3-MeFOSAA	BDO-1838	94	94	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			d5-EtFOSAA	BDO-1839	97	97	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C3-PFBS	BDO-2226	99	99	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C3-PFHxS	BDO-2227	87	87	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C8-PFOS	BDO-2228	89	89	PCT_REC			
		20201022	10:27:00	20201110	23:05:31	DA945PB-FS	1	1			13C3-HFPO-DA	BDO-2276	75	75	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluorohexanoic Acid (PFHxA)	307-24-4	91	91	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluoroheptanoic Acid (PFHpA)	375-85-9	89	89	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluorooctanoic Acid (PFOA)	335-67-1	84	84	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluorononanoic Acid (PFNA)	375-95-1	99	99	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	99	99	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	83	83	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	93	93	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluorotridecanoic Acid (PFTriDA)	72629-94-8	98	98	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	94	94	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	85	85	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	85	85	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	101	101	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	108	108	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluorooctane Sulfonate (PFOS)	1763-23-1	89	89	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	98	98	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	99	99	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			11-chloroicosafuoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	93	93	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	90	90	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C5-PFHxA	BDO-2217	91	91	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C4-PFHpA	BDO-2218	86	86	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C8-PFOA	BDO-2219	93	93	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C9-PFNA	BDO-2221	84	84	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C6-PFDA	BDO-2222	86	86	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C7-PFUnA	BDO-2223	87	87	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C2-PFDoA	BDO-2112	90	90	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C2-PFTeDA	BDO-2224	88	88	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			d3-MeFOSAA	BDO-1838	95	95	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			d5-EtFOSAA	BDO-1839	89	89	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C3-PFBS	BDO-2226	109	109	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C3-PFHxS	BDO-2227	92	92	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C8-PFOS	BDO-2228	96	96	PCT_REC			
		20201022	10:27:00	20201110	23:15:58	DA946LCS-FS	1	1			13C3-HFPO-DA	BDO-2276	86	86	PCT_REC			
		20201022	10:27:00	20201110	23:57:52	G1765-FS	31.25	4			Perfluorohexanoic Acid (PFHxA)	307-24-4	1360	1360	NG L	D		
		20201022	10:27:00	20201110	23:26:27	G1765-FS	1	1			Perfluoroheptanoic Acid (PFHpA)	375-85-9	471	471	NG L	D		
		20201022	10:27:00	20201110	23:47:24	G1765-FS	12.5	3			Perfluorooctanoic Acid (PFOA)	335-67-1	1090	1090	NG L	D		
		20201022	10:27:00	20201110	23:36:56	G1765-FS	5	2			Perfluorononanoic Acid (PFNA)	375-95-1	1130	1130	NG L	D		
		20201022	10:27:00	20201110	23:36:56	G1765-FS	5	2			Perfluorodecanoic Acid (PFDA)	335-76-2	360	360	NG L	D		
		20201022	10:27:00	20201111	00:08:20	G1765-FS	156.25	5			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	3390	3390	NG L	D		
		20201022	10:27:00	20201110	23:26:27	G1765-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	175	175	NG L	D		
		20201022	10:27:00	20201110	23:36:56	G1765-FS	5	2			Perfluorotridecanoic Acid (PFTriDA)	72629-94-8	488	488	NG L	D		
		20201022	10:27:00	20201110	23:26:27	G1765-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.96	1.96	NG L	U	U	U
		20201022	10:27:00	20201110	23:26:27	G1765-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	7.27	7.27	NG L	U	U	U
		20201022	10:27:00	2020														

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
		20201022	10:27:00	20201111	01:00:39	G1766-FS	25	3			Perfluorooctanoic acid (PFOA)	335-67-1	1970	1970	NG L	D		
		20201022	10:27:00	20201111	01:00:39	G1766-FS	25	3			Perfluorononanoic acid (PFNA)	375-95-1	2150	2150	NG L	D		
		20201022	10:27:00	20201111	00:50:11	G1766-FS	5	2			Perfluorododecanoic acid (PFDA)	335-76-2	210	210	NG L	D		
		20201022	10:27:00	20201111	01:00:39	G1766-FS	25	3			Perfluoroundecanoic acid (PFUnA)	2058-94-8	776	776	NG L	D		
		20201022	10:27:00	20201111	00:39:43	G1766-FS	1	1			Perfluorododecanoic acid (PFDoA)	307-55-1	2.39	2.39	NG L	J	J	J
		20201022	10:27:00	20201111	00:39:43	G1766-FS	1	1			Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.02	5.02	NG L			
		20201022	10:27:00	20201111	00:39:43	G1766-FS	1	1			Perfluorotetradecanoic acid (PFTEdA)	376-06-7	1.92	1.92	NG L	U	U	U
		20201022	10:27:00	20201111	00:39:43	G1766-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.96	0.76	NG L	J	U	U
		20201022	10:27:00	20201111	00:39:43	G1766-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	1.7	1.7	NG L	J	J	J
		20201022	10:27:00	20201111	00:39:43	G1766-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	167	167	NG L			
		20201022	10:27:00	20201111	01:21:34	G1766-FS	312.5	5			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	6180	6180	NG L	D		
		20201022	10:27:00	20201111	01:21:34	G1766-FS	312.5	5			Perfluorooctane Sulfonate (PFOS)	1763-23-1	23700	23700	NG L	D		
		20201022	10:27:00	20201111	00:39:43	G1766-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.48	0.48	NG L	U	U	U
		20201022	10:27:00	20201111	00:39:43	G1766-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-0	0.96	0.96	NG L	U	U	U
		20201022	10:27:00	20201111	00:39:43	G1766-FS	1	1			11-chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.96	0.96	NG L	U	U	U
		20201022	10:27:00	20201111	00:39:43	G1766-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.48	0.48	NG L	U	U	U
		20201022	10:27:00	20201111	01:11:06	G1766-FS	62.5	4			13C5-PFHxA	BDO-2217	93	93	PCT_REC			
		20201022	10:27:00	20201111	01:11:06	G1766-FS	62.5	4			13C4-PFHpA	BDO-2218	87	87	PCT_REC			
		20201022	10:27:00	20201111	01:00:39	G1766-FS	25	3			13C8-PFOA	BDO-2219	87	87	PCT_REC			
		20201022	10:27:00	20201111	01:00:39	G1766-FS	25	3			13C9-PFNA	BDO-2221	60	60	PCT_REC			
		20201022	10:27:00	20201111	00:50:11	G1766-FS	5	2			13C6-PFDA	BDO-2222	95	95	PCT_REC			
		20201022	10:27:00	20201111	01:00:39	G1766-FS	25	3			13C7-PFUnA	BDO-2223	101	101	PCT_REC			
		20201022	10:27:00	20201111	00:50:11	G1766-FS	5	2			13C2-PFDoA	BDO-2112	123	123	PCT_REC			
		20201022	10:27:00	20201111	00:50:11	G1766-FS	5	2			13C2-PFTEdA	BDO-2224	125	125	PCT_REC			
		20201022	10:27:00	20201111	01:21:34	G1766-FS	312.5	5			d3-MeFOSAA	BDO-1838	96	96	PCT_REC			
		20201022	10:27:00	20201111	01:21:34	G1766-FS	312.5	5			d5-EtFOSAA	BDO-1839	108	108	PCT_REC			
		20201022	10:27:00	20201111	01:21:34	G1766-FS	312.5	5			13C3-PFBS	BDO-2226	100	100	PCT_REC			
		20201022	10:27:00	20201111	01:21:34	G1766-FS	312.5	5			13C3-PFHxS	BDO-2227	97	97	PCT_REC			
		20201022	10:27:00	20201111	01:21:34	G1766-FS	312.5	5			13C8-PFOS	BDO-2228	86	86	PCT_REC			
		20201022	10:27:00	20201111	01:00:39	G1766-FS	25	3			13C3-HFPO-DA	BDO-2276	85	85	PCT_REC			
		20201022	10:27:00	20201111	02:03:27	G1767-FS	312.5	4			Perfluorohexanoic Acid (PFHxA)	307-24-4	2970	2970	NG L	D		
		20201022	10:27:00	20201111	01:52:58	G1767-FS	62.5	3			Perfluorheptanoic acid (PFHpA)	375-85-9	1740	1740	NG L	D		
		20201022	10:27:00	20201111	01:52:58	G1767-FS	62.5	3			Perfluorooctanoic acid (PFOA)	335-67-1	2330	2330	NG L	D		
		20201022	10:27:00	20201111	01:52:58	G1767-FS	62.5	3			Perfluorononanoic acid (PFNA)	375-95-1	2130	2130	NG L	D		
		20201022	10:27:00	20201111	01:42:31	G1767-FS	5	2			Perfluorododecanoic acid (PFDA)	335-76-2	225	225	NG L	D		
		20201022	10:27:00	20201111	01:52:58	G1767-FS	62.5	3			Perfluoroundecanoic acid (PFUnA)	2058-94-8	942	942	NG L	D		
		20201022	10:27:00	20201111	01:32:03	G1767-FS	1	1			Perfluorotridecanoic acid (PFTrDA)	307-55-1	2.68	2.68	NG L	J	J	J
		20201022	10:27:00	20201111	01:32:03	G1767-FS	1	1			Perfluorotetradecanoic acid (PFTEdA)	72629-94-8	5.57	5.57	NG L			
		20201022	10:27:00	20201111	01:32:03	G1767-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	375-06-7	1.89	1.89	NG L	U	U	U
		20201022	10:27:00	20201111	01:32:03	G1767-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2355-31-9	0.94	0.84	NG L	J	J	J
		20201022	10:27:00	20201111	01:32:03	G1767-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	2991-50-6	1.99	1.99	NG L	J	J	J
		20201022	10:27:00	20201111	01:32:03	G1767-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	171	171	NG L			
		20201022	10:27:00	20201111	02:03:27	G1767-FS	312.5	4			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	7140	7140	NG L	D		
		20201022	10:27:00	20201111	02:03:27	G1767-FS	312.5	4			Perfluorooctane Sulfonate (PFOS)	1763-23-1	21600	21600	NG L	D		
		20201022	10:27:00	20201111	01:32:03	G1767-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.47	0.47	NG L	U	U	U
		20201022	10:27:00	20201111	01:32:03	G1767-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-0	0.94	0.94	NG L	U	U	U
		20201022	10:27:00	20201111	01:32:03	G1767-FS	1	1			11-chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.94	0.94	NG L	U	U	U
		20201022	10:27:00	20201111	01:32:03	G1767-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.47	0.47	NG L	U	U	U
		20201022	10:27:00	20201111	02:03:27	G1767-FS	312.5	4			13C5-PFHxA	BDO-2217	94	94	PCT_REC			
		20201022	10:27:00	20201111	01:52:58	G1767-FS	62.5	3			13C4-PFHpA	BDO-2218	86	86	PCT_REC			
		20201022	10:27:00	20201111	01:52:58	G1767-FS	62.5	3			13C8-PFOA	BDO-2219	91	91	PCT_REC			
		20201022	10:27:00	20201111	01:52:58	G1767-FS	62.5	3			13C9-PFNA	BDO-2221	70	70	PCT_REC			
		20201022	10:27:00	20201111	01:42:31	G1767-FS	5	2			13C6-PFDA	BDO-2222	94	94	PCT_REC			
		20201022	10:27:00	20201111	01:52:58	G1767-FS	62.5	3			13C7-PFUnA	BDO-2223	102	102	PCT_REC			
		20201022	10:27:00	20201111	01:42:31	G1767-FS	5	2			13C2-PFDoA	BDO-2112	123	123	PCT_REC			
		20201022	10:27:00	20201111	01:42:31	G1767-FS	5	2			13C2-PFTEdA	BDO-2224	128	128	PCT_REC			
		20201022	10:27:00	20201111	02:03:27	G1767-FS	312.5	4			d3-MeFOSAA	BDO-1838	99	99	PCT_REC			
		20201022	10:27:00	20201111	02:03:27	G1767-FS	312.5	4			d5-EtFOSAA	BDO-1839	109	109	PCT_REC			
		20201022	10:27:00	20201111	02:03:27	G1767-FS	312.5	4			13C3-PFBS	BDO-2226	102	102	PCT_REC			
		20201022	10:27:00	20201111	02:03:27	G1767-FS	312.5	4			13C3-PFHxS	BDO-2227	95	95	PCT_REC			
		20201022	10:27:00	20201111	02:03:27	G1767-FS	312.5	4			13C8-PFOS	BDO-2228	104	104	PCT_REC			
		20201022	10:27:00	20201111	01:52:58	G1767-FS	62.5	3			13C3-HFPO-DA	BDO-2276	74	74	PCT_REC			
		20201022	10:27:00	20201111	03:06:13	G1768-FS	156.25	5			Perfluorohexanoic Acid (PFHxA)	307-24-4	6210	6210	NG L	D		
		20201022	10:27:00	20201111	02:55:45	G1768-FS	62.5	4			Perfluorheptanoic acid (PFHpA)	375-85-9	5820	5820	NG L	D		
		20201022	10:27:00	20201111	03:06:13	G1768-FS	156.25	5			Perfluorooctanoic acid (PFOA)	335-67-1	6800	6800	NG L	D		
		20201022	10:27:00	20201111	02:55:45	G1768-FS	62.5	4			Perfluorononanoic acid (PFNA)	375-95-1	8720	8720	NG L	D		
		20201022	10:27:00	20201111	02:45:18	G1768-FS	5	3			Perfluorododecanoic acid (PFDA)	335-76-2	306	306	NG L	D		
		20201022	10:27:00	20201111	02:55:45	G1768-FS	62.5	4			Perfluoroundecanoic acid (PFUnA)	2058-94-8	763	763	NG L	D		
		20201022	10:27:00	20201111	02:34:50	G1768-FS	1	1			Perfluorododecanoic acid (PFDA)	307-55-1	4.01	4.01	NG L	J	J	J
		20201022	10:27:00	20201111	02:34:50	G1768-FS	1	1			Perfluorotridecanoic acid (PFTrDA)	72629-94-8	25	25	NG L			
		20201022	10:27:00	20201111	02:34:50	G1768-FS	1	1			Perfluorotetradecanoic acid (PFTEdA)	376-06-7	1.89	1.89	NG L	U	U	U
		20201022	10:27:00	20201111	02:34:50	G1768-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	1.05	1.05	NG L	J	U	U
		20201022	10:27:00	20201111	02:34:50	G1768-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	2.03	2.03	NG L	J	J	J
		20201022	10:27:00	20201111	02:45:18	G1768-FS	5	3			Perfluorobutanesulfonic acid (PFBS							

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
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	33.6	33.6	NG	L		
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	3.49	3.49	NG	L	J	J
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	0.48	0.48	NG	L	U	U
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.48	0.48	NG	L	U	U
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.92	1.92	NG	L	U	U
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.96	0.96	NG	L	U	U
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.96	0.96	NG	L	U	U
		20201022	10:27:00	20201111	05:43:16	G1769-FS	5	3			Perfluorobutanesulfonic Acid (PFBS)	375-73-5	501	501	NG	L	D	
		20201022	10:27:00	20201111	06:25:14	G1769-FS	195.31	2			Perfluorooctanesulfonic Acid (PFHxS)	355-46-4	7690	7690	NG	L	D	
		20201022	10:27:00	20201111	06:25:14	G1769-FS	195.31	2			Perfluorooctane Sulfonate (PFOS)	1763-23-1	13300	13300	NG	L	D	
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.48	0.48	NG	L	U	UJ
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			4,8-dioxo-3H-perfluorooxonanoic acid (ADONA)	919005-14-4	0.96	0.96	NG	L	U	U
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			11-chlorooctadecafluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.48	0.48	NG	L	U	U
		20201022	10:27:00	20201111	06:14:44	G1769-FS	78.13	5			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.48	0.48	NG	L	U	U
		20201022	10:27:00	20201111	06:14:44	G1769-FS	78.13	5			13C5-PFHxA	BDO-2217	91	91	PCT	REC		
		20201022	10:27:00	20201111	06:14:44	G1769-FS	78.13	5			13C4-PFHpA	BDO-2218	87	87	PCT	REC		
		20201022	10:27:00	20201111	06:14:44	G1769-FS	78.13	5			13C8-PFOA	BDO-2219	91	91	PCT	REC		
		20201022	10:27:00	20201111	06:14:44	G1769-FS	78.13	5			13C9-PFNA	BDO-2221	83	83	PCT	REC		
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			13C6-PFDA	BDO-2222	87	87	PCT	REC		
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			13C7-PFUnA	BDO-2223	99	99	PCT	REC		
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			13C2-PFDoA	BDO-2112	100	100	PCT	REC		
		20201022	10:27:00	20201111	05:32:48	G1769-FS	1	1			13C2-PFTeDA	BDO-2224	96	96	PCT	REC		
		20201022	10:27:00	20201111	06:25:14	G1769-FS	195.31	2			d3-MeFOSAA	BDO-1838	104	104	PCT	REC		
		20201022	10:27:00	20201111	06:25:14	G1769-FS	195.31	2			d5-EtFOSAA	BDO-1839	120	120	PCT	REC		
		20201022	10:27:00	20201111	06:25:14	G1769-FS	195.31	2			13C3-PFBS	BDO-2226	109	109	PCT	REC		
		20201022	10:27:00	20201111	06:25:14	G1769-FS	195.31	2			13C3-PFHxS	BDO-2227	106	106	PCT	REC		
		20201022	10:27:00	20201111	06:25:14	G1769-FS	195.31	2			13C8-PFOS	BDO-2228	96	96	PCT	REC		
		20201022	10:27:00	20201111	06:14:44	G1769-FS	78.13	5			13C3-HFPO-DA	BDO-2276	75	75	PCT	REC		
		20201022	10:27:00	20201111	07:28:05	G1770MS-FS	31.25	4			Perfluorohexanoic Acid (PFHxA)	307-24-4	959	959	PCT	REC		
		20201022	10:27:00	20201111	07:07:07	G1770MS-FS	5	3			Perfluoroheptanoic acid (PFHpA)	375-85-9	149	149	PCT	REC		
		20201022	10:27:00	20201111	07:38:34	G1770MS-FS	78.13	5			Perfluorooctanoic acid (PFOA)	335-67-1	1033	1033	PCT	REC		
		20201022	10:27:00	20201111	07:28:05	G1770MS-FS	31.25	4			Perfluorononanoic acid (PFNA)	375-95-1	1077	1077	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	104	104	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	114	114	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	98	98	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	100	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	96	96	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	93	93	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	85	85	PCT	REC		
		20201022	10:27:00	20201111	07:28:05	G1770MS-FS	31.25	4			Perfluorobutanesulfonic acid (PFBS)	375-73-5	257	257	PCT	REC		
		20201022	10:27:00	20201111	07:49:03	G1770MS-FS	195.31	2			Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	545	545	PCT	REC		
		20201022	10:27:00	20201111	07:49:03	G1770MS-FS	195.31	2			Perfluorooctane Sulfonate (PFOS)	1763-23-1	3268	3268	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	73	73	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			4,8-dioxo-3H-perfluorooxonanoic acid (ADONA)	919005-14-4	142	142	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			11-chlorooctadecafluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	71	71	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	87	87	PCT	REC		
		20201022	10:27:00	20201111	07:38:34	G1770MS-FS	78.13	5			13C5-PFHxA	BDO-2217	91	91	PCT	REC		
		20201022	10:27:00	20201111	07:38:34	G1770MS-FS	78.13	5			13C4-PFHpA	BDO-2218	78	78	PCT	REC		
		20201022	10:27:00	20201111	07:38:34	G1770MS-FS	78.13	5			13C8-PFOA	BDO-2219	85	85	PCT	REC		
		20201022	10:27:00	20201111	07:38:34	G1770MS-FS	78.13	5			13C9-PFNA	BDO-2221	75	75	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			13C6-PFDA	BDO-2222	81	81	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			13C7-PFUnA	BDO-2223	98	98	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			13C2-PFDoA	BDO-2112	113	113	PCT	REC		
		20201022	10:27:00	20201111	06:56:39	G1770MS-FS	1	1			13C2-PFTeDA	BDO-2224	120	120	PCT	REC		
		20201022	10:27:00	20201111	07:49:03	G1770MS-FS	195.31	2			d3-MeFOSAA	BDO-1838	104	104	PCT	REC		
		20201022	10:27:00	20201111	07:49:03	G1770MS-FS	195.31	2			d5-EtFOSAA	BDO-1839	117	117	PCT	REC		
		20201022	10:27:00	20201111	07:49:03	G1770MS-FS	195.31	2			13C3-PFBS	BDO-2226	110	110	PCT	REC		
		20201022	10:27:00	20201111	07:49:03	G1770MS-FS	195.31	2			13C3-PFHxS	BDO-2227	107	107	PCT	REC		
		20201022	10:27:00	20201111	07:49:03	G1770MS-FS	195.31	2			13C8-PFOS	BDO-2228	103	103	PCT	REC		
		20201022	10:27:00	20201111	07:38:34	G1770MS-FS	78.13	5			13C3-HFPO-DA	BDO-2276	75	75	PCT	REC		
		20201022	10:27:00	20201111	08:52:40	G1771MSD-FS	31.25	3			Perfluorohexanoic Acid (PFHxA)	307-24-4	294	294	PCT	REC		
		20201022	10:27:00	20201111	08:31:40	G1771MSD-FS	5	2			Perfluoroheptanoic acid (PFHpA)	375-85-9	150	150	PCT	REC		
		20201022	10:27:00	20201111	09:03:11	G1771MSD-FS	78.13	4			Perfluorooctanoic acid (PFOA)	335-67-1	508	508	PCT	REC		
		20201022	10:27:00	20201111	08:52:40	G1771MSD-FS	31.25	3			Perfluorononanoic acid (PFNA)	375-95-1	720	720	PCT	REC		
		20201022	10:27:00	20201111	08:21:11	G1771MSD-FS	1	6			Perfluorodecanoic Acid (PFDA)	335-76-2	86	86	PCT	REC		
		20201022	10:27:00	20201111	08:21:11	G1771MSD-FS	1	6			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	102	102	PCT	REC		
		20201022	10:27:00	20201111	08:21:11	G1771MSD-FS	1	6			Perfluorododecanoic Acid (PFDoA)	307-55-1	98	98	PCT	REC		
		20201022	10:27:00	20201111	08:21:11	G1771MSD-FS	1	6			Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	105	105	PCT	REC		
		20201022	10:27:00	20201111	08:21:11	G1771MSD-FS	1	6			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	93	93	PCT	REC		
		20201022	10:27:00	20201111	08:21:11	G1771MSD-FS	1	6			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	96	96	PCT	REC		
		20201022	10:27:00	20201111	08:21:11	G1771MSD-FS	1	6			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	82	82	PCT	REC		
		20201022	10:27:00	20201111	08:52:40	G1771MSD-FS	31.25	3			Perfluorobutanesulfonic acid (PFBS)	375-73-5	210	210	PCT	REC		
		20201022	10:27:00	20201111	09:13:41	G1771MSD-FS	195.31	1			Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1218	1218	PCT	REC		
		20201022	10:27:00	20201111	09:13:41	G1771MSD-FS	195.31	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
		20201022	10:27:00	20201111	09:45:09	G1772-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	5.16	5.16	NG	L		
		20201022	10:27:00	20201111	09:45:09	G1772-FS	1	1			Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	86.9	86.9	NG	L		
		20201022	10:27:00	20201111	09:45:09	G1772-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.82	1.82	NG	L	U	U
		20201022	10:27:00	20201111	09:45:09	G1772-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.9	0.9	NG	L	U	U
		20201022	10:27:00	20201111	09:45:09	G1772-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.9	0.9	NG	L	U	U
		20201022	10:27:00	20201111	09:45:09	G1772-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	261	261	NG	L		
		20201022	10:27:00	20201111	10:27:04	G1772-FS	195.31	6			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	12300	12300	NG	L	D	
		20201022	10:27:00	20201111	10:48:02	G1772-FS	2441.41	3			Perfluorooctane Sulfonate (PFOS)	1763-23-1	171000	171000	NG	L	D	
		20201022	10:27:00	20201111	09:45:09	G1772-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.45	0.45	NG	L	U	U
		20201022	10:27:00	20201111	09:45:09	G1772-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.98	0.98	NG	L	U	U
		20201022	10:27:00	20201111	09:45:09	G1772-FS	1	1			11-chloroeicosfluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.98	0.98	NG	L	U	U
		20201022	10:27:00	20201111	09:45:09	G1772-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.45	0.45	NG	L	U	U
		20201022	10:27:00	20201111	10:16:35	G1772-FS	78.13	5			13C5-PFHxA	BDO-2217	95	95	PCT	REC		
		20201022	10:27:00	20201111	10:16:35	G1772-FS	78.13	5			13C4-PFHpA	BDO-2218	90	90	PCT	REC		
		20201022	10:27:00	20201111	10:16:35	G1772-FS	78.13	5			13C8-PFOA	BDO-2219	85	85	PCT	REC		
		20201022	10:27:00	20201111	10:37:33	G1772-FS	488.28	2			13C9-PFNA	BDO-2221	76	76	PCT	REC		
		20201022	10:27:00	20201111	09:55:37	G1772-FS	12.5	4			13C6-PFDA	BDO-2222	101	101	PCT	REC		
		20201022	10:27:00	20201111	09:55:37	G1772-FS	12.5	4			13C7-PFUnA	BDO-2223	149	149	PCT	REC		
		20201022	10:27:00	20201111	09:55:37	G1772-FS	12.5	4			13C2-PFDoA	BDO-2112	148	148	PCT	REC		
		20201022	10:27:00	20201111	09:55:37	G1772-FS	12.5	4			13C2-PFTEdA	BDO-2224	147	147	PCT	REC		
		20201022	10:27:00	20201111	10:48:02	G1772-FS	2441.41	3			d3-MeFOSAA	BDO-1838	95	95	PCT	REC		
		20201022	10:27:00	20201111	10:48:02	G1772-FS	2441.41	3			d5-EtFOSAA	BDO-1839	106	106	PCT	REC		
		20201022	10:27:00	20201111	10:48:02	G1772-FS	2441.41	3			13C3-PFBS	BDO-2226	106	106	PCT	REC		
		20201022	10:27:00	20201111	10:48:02	G1772-FS	2441.41	3			13C3-PFHxS	BDO-2227	105	105	PCT	REC		
		20201022	10:27:00	20201111	10:48:02	G1772-FS	2441.41	3			13C8-PFOS	BDO-2228	97	97	PCT	REC		
		20201022	10:27:00	20201111	10:16:35	G1772-FS	78.13	5			13C3-HFPO-DA	BDO-2276	78	78	PCT	REC		
		20201022	10:27:00	20201111	03:48:07	G1773-FS	5	3			Perfluorohexanoic Acid (PFHxA)	307-24-4	636	636	NG	L	D	
		20201022	10:27:00	20201111	03:48:07	G1773-FS	5	3			Perfluoroheptanoic acid (PFHpA)	375-85-9	412	412	NG	L	D	
		20201022	10:27:00	20201111	03:58:34	G1773-FS	12.5	5			Perfluorooctanoic acid (PFOA)	335-67-1	1030	1030	NG	L	D	
		20201022	10:27:00	20201111	03:48:07	G1773-FS	5	3			Perfluorononanoic acid (PFNA)	375-95-1	631	631	NG	L	D	
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	8.21	8.21	NG	L		
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	30.8	30.8	NG	L		
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	0.49	0.49	NG	L	U	U
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.49	0.49	NG	L	U	U
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			Perfluorotetradecanoic Acid (PFTEdA)	376-06-7	1.96	1.96	NG	L	U	U
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.98	0.44	NG	L	J	U
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.98	0.98	NG	L	U	U
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	62	62	NG	L		
		20201022	10:27:00	20201112	23:43:01	G1773-FS	156.25	8			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	12800	12800	NG	L	D	
		20201022	10:27:00	20201112	23:43:01	G1773-FS	156.25	8			Perfluorooctane Sulfonate (PFOS)	1763-23-1	12700	12700	NG	L	D	
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.49	0.49	NG	L	U	U
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			4,8-dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.98	0.98	NG	L	U	U
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			11-chloroeicosfluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.98	0.98	NG	L	U	U
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.49	0.49	NG	L	U	U
		20201022	10:27:00	20201111	03:58:34	G1773-FS	12.5	5			13C5-PFHxA	BDO-2217	87	87	PCT	REC		
		20201022	10:27:00	20201111	03:58:34	G1773-FS	12.5	5			13C4-PFHpA	BDO-2218	81	81	PCT	REC		
		20201022	10:27:00	20201111	03:58:34	G1773-FS	12.5	5			13C8-PFOA	BDO-2219	92	92	PCT	REC		
		20201022	10:27:00	20201111	03:58:34	G1773-FS	12.5	5			13C9-PFNA	BDO-2221	79	79	PCT	REC		
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			13C6-PFDA	BDO-2222	78	78	PCT	REC		
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			13C7-PFUnA	BDO-2223	76	76	PCT	REC		
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			13C2-PFDoA	BDO-2112	66	66	PCT	REC		
		20201022	10:27:00	20201111	03:37:38	G1773-FS	1	1			13C2-PFTEdA	BDO-2224	31	31	PCT	REC	N	
		20201022	10:27:00	20201112	23:43:01	G1773-FS	156.25	8			d3-MeFOSAA	BDO-1838	126	126	PCT	REC		
		20201022	10:27:00	20201112	23:43:01	G1773-FS	156.25	8			d5-EtFOSAA	BDO-1839	136	136	PCT	REC		
		20201022	10:27:00	20201112	23:43:01	G1773-FS	156.25	8			13C3-PFBS	BDO-2226	102	102	PCT	REC		
		20201022	10:27:00	20201112	23:43:01	G1773-FS	156.25	8			13C3-PFHxS	BDO-2227	94	94	PCT	REC		
		20201022	10:27:00	20201112	23:43:01	G1773-FS	156.25	8			13C8-PFOS	BDO-2228	96	96	PCT	REC		
		20201022	10:27:00	20201111	03:58:34	G1773-FS	12.5	5			13C3-HFPO-DA	BDO-2276	71	71	PCT	REC		
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluorohexanoic Acid (PFHxA)	307-24-4	1.47	1.47	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluoroheptanoic acid (PFHpA)	375-85-9	0.98	0.98	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluorooctanoic acid (PFOA)	335-67-1	1.47	1.47	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluorononanoic acid (PFNA)	375-95-1	0.98	0.98	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluorodecanoic Acid (PFDA)	335-76-2	0.49	0.49	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.49	0.49	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluorododecanoic Acid (PFDoA)	307-55-1	0.49	0.49	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.49	0.49	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluorotetradecanoic Acid (PFTEdA)	376-06-7	1.96	1.96	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.98	0.98	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.98	0.98	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.49	0.49	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.39	0.39	NG	L	U	U
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluorooctane Sulfonate (PFOS)	1763-23-1	0.44	0.44	NG	L	J	J
		20201022	10:27:00	20201111	04:30:02	G1774-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.49	0.49	NG	L	U	U
		20201022	10:27:00	202011														

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
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	1.82	1.82	NG L	U	U	U
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	2355-31-9	0.9	0.9	NG L	U	U	U
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			N-Ethyl Perfluorooctanesulfonamidoacetic Acid (EtFOSAA)	2991-50-6	0.9	0.9	NG L	U	U	U
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			Perfluorobutanesulfonic acid (PFBS)	375-73-5	7.5	7.5	NG L			
		20201022	10:27:00	20201111	04:50:57	G1775-FS	5	2			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	393	393	NG L	D		
		20201022	10:27:00	20201112	23:53:30	G1775-FS	31.25	3			Perfluorooctane Sulfonate (PFOS)	1763-23-1	1090	1090	NG L	D		
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	0.45	0.45	NG L	U	U	U
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.9	0.9	NG L	U	U	U
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			11-chloroicosapentafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.9	0.9	NG L	U	U	U
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.45	0.45	NG L	U	U	U
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			13C5-PFHxA	BDO-2217	60	60	PCT_REC			
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			13C4-PFHpA	BDO-2218	58	58	PCT_REC			
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			13C8-PFGA	BDO-2219	77	77	PCT_REC			
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			13C9-PFNA	BDO-2221	53	53	PCT_REC			
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			13C6-PFDA	BDO-2222	79	79	PCT_REC			
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			13C7-PFUnA	BDO-2223	76	76	PCT_REC			
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			13C2-PFDoA	BDO-2112	82	82	PCT_REC			
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			13C2-PFTeDA	BDO-2224	80	80	PCT_REC			
		20201022	10:27:00	20201112	23:53:30	G1775-FS	31.25	3			d3-MeFOSAA	BDO-1838	118	118	PCT_REC			
		20201022	10:27:00	20201112	23:53:30	G1775-FS	31.25	3			d5-EtFOSAA	BDO-1839	111	111	PCT_REC			
		20201022	10:27:00	20201112	23:53:30	G1775-FS	31.25	3			13C3-PFBS	BDO-2226	88	88	PCT_REC			
		20201022	10:27:00	20201112	23:53:30	G1775-FS	31.25	3			13C3-PFHxS	BDO-2227	99	99	PCT_REC			
		20201022	10:27:00	20201112	23:53:30	G1775-FS	31.25	3			13C8-PFOS	BDO-2228	95	95	PCT_REC			
		20201022	10:27:00	20201111	04:40:29	G1775-FS	1	1			13C3-HFPO-DA	BDO-2276	65	65	PCT_REC			

**DATA VALIDATION SUMMARY REPORT
NAVAL RESEARCH LABORATORY, MARYLAND**

Client: CH2M HILL, Inc., Herndon, Virginia
 SDG: 20-1321
 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-MW04-1020	G1765-FS	Water
2	CBD-AOA-MW01-1020	G1766-FS	Water
3	CBD-AOA-MW01P-1020	G1767-FS	Water
4	CBD-AOA-MW03-1020	G1768-FS	Water
5	CBD-AOA-MW08-1020	G1769-FS	Water
5MS	CBD-AOA-MW08-1020MS	G1770-FSMS	Water
5MSD	CBD-AOA-MW08-1020MSD	G1771-FSMSD	Water
6	CBD-AOA-MW02-1020	G1772-FS	Water
7	CBD-AOA-MW18-1020	G1773-FS	Water
8	CBD-AOA-EB01-101920-GW	G1774-FS	Water
9	CBD-SO3-MW01-1020	G1775-FS	Water

A Stage 2B/4 data validation was performed on the analytical data for eight water samples and one aqueous equipment blank sample collected on October 19, 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 exhibited the following contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
LE58 IB	NMeFOSAA	0.387	U	2, 3, 4, 7

Field QC Blank

- Field QC sample results are summarized below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
CBD-AOA-EB01-101920-GW	PFOS	0.449	None	Associated Samples >10X
CBD-FB05-102020	None - ND	-	-	-

Surrogate Spike Recoveries

- Several samples exhibited surrogates 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
5	7 Compounds	High/High/High	None - 4X Rule Applies
	HFPO-DA	73%/64%/OK	UJ

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 acceptable.

Compound	CBD-AOA-MW01-1020 ng/L	CBD-AOA-MW01P-1020 ng/L	RPD	Qualifier
PFHxA	2880	2970	3%	None
PFHpA	1600	1740	8%	
PFOA	1970	2330	17%	
PFNA	2150	2130	1%	
PFDA	210	225	7%	
PFUnA	776	942	19%	
PFDoA	2.39	2.68	11%	
PFTtDA	5.02	5.57	10%	
NEtFOSAA	1.70	1.99	16%	
PFBS	167	171	2%	
PFHxS	6180	7140	14%	
PFOS	23700	21600	9%	

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	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. 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.



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

Client ID CBD-AOA-MW04-1020

Battelle ID G1765-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.255
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1360 D	G1765-FS-D(7)	31.250	11/10/2020	16.1	46.0	153
PFHpA	375-85-9	471	G1765-FS(0)	1.000	11/10/2020	0.258	0.980	4.90
PFOA	335-67-1	1090 D	G1765-FS-D(5)	12.500	11/10/2020	6.26	18.4	61.3
PFNA	375-95-1	1130 D	G1765-FS-D(3)	5.000	11/10/2020	1.51	4.90	24.5
PFDA	335-76-2	360 D	G1765-FS-D(3)	5.000	11/10/2020	0.696	2.45	24.5
PFUnA	2058-94-8	3390 D	G1765-FS-D(9)	156.250	11/11/2020	33.5	76.6	766
PFDoA	307-55-1	175	G1765-FS(0)	1.000	11/10/2020	0.188	0.490	4.90
PFTrDA	72629-94-8	488 D	G1765-FS-D(3)	5.000	11/10/2020	0.755	2.45	24.5
PFTeDA	376-06-7	1.96 U	G1765-FS(0)	1.000	11/10/2020	0.719	1.96	4.90
NMeFOSAA	2355-31-9	7.27	G1765-FS(0)	1.000	11/10/2020	0.343	0.980	4.90
NEtFOSAA	2991-50-6	18.5	G1765-FS(0)	1.000	11/10/2020	0.490	0.980	4.90
PFBS	375-73-5	88.8	G1765-FS(0)	1.000	11/10/2020	0.141	0.490	4.90
PFHxS	355-46-4	3170 D	G1765-FS-D(9)	156.250	11/11/2020	17.2	61.3	766
PFOS	1763-23-1	10800 D	G1765-FS-D(9)	156.250	11/11/2020	66.9	153	766
HFPO-DA	13252-13-6	0.490 U	G1765-FS(0)	1.000	11/10/2020	0.243	0.490	4.90
Adona	919005-14-4	0.980 U	G1765-FS(0)	1.000	11/10/2020	0.260	0.980	4.90
9CI-PF3ONS	756426-58-1	0.490 U	G1765-FS(0)	1.000	11/10/2020	0.263	0.490	4.90
11CI-PF3OUds	763051-92-9	0.980 U	G1765-FS(0)	1.000	11/10/2020	0.226	0.980	4.90

rwilidzi

Analyzed by: Schumitz, Denise
 Printed: 11/17/2020



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

2

Client ID CBD-AOA-MW01-1020

Battelle ID G1766-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix GW
 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	2880 D	G1766-FS-D(7)	62.500	11/11/2020	31.7	90.1	300
PFHpA	375-85-9	1600 D	G1766-FS-D(7)	62.500	11/11/2020	15.8	60.1	300
PFOA	335-67-1	1970 D	G1766-FS-D(5)	25.000	11/11/2020	12.3	36.1	120
PFNA	375-95-1	2150 D	G1766-FS-D(5)	25.000	11/11/2020	7.43	24.0	120
PFDA	335-76-2	210 D	G1766-FS-D(3)	5.000	11/11/2020	0.683	2.40	24.0
PFUnA	2050-94-8	776 D	G1766-FS-D(5)	25.000	11/11/2020	5.26	12.0	120
PFDoA	307-55-1	2.39 J	G1766-FS(0)	1.000	11/11/2020	0.185	0.481	4.81
PFTrDA	72629-94-8	5.02	G1766-FS(0)	1.000	11/11/2020	0.148	0.481	4.81
PFTeDA	376-06-7	1.92 U	G1766-FS(0)	1.000	11/11/2020	0.705	1.92	4.81
NMeFOSAA	2355-31-9	0.962 U	G1766-FS(0)	1.000	11/11/2020	0.337	0.962	4.81
NEtFOSAA	2991-50-6	1.70 J	G1766-FS(0)	1.000	11/11/2020	0.481	0.962	4.81
PFBS	375-73-5	167	G1766-FS(0)	1.000	11/11/2020	0.138	0.481	4.81
PFHxS	355-46-4	6180 D	G1766-FS-D(9)	312.500	11/11/2020	33.7	120	1500
PFOS	1763-23-1	23700 D	G1766-FS-D(9)	312.500	11/11/2020	131	300	1500
HFPO-DA	13252-13-6	0.481 U	G1766-FS(0)	1.000	11/11/2020	0.238	0.481	4.81
Adona	919005-14-4	0.962 U	G1766-FS(0)	1.000	11/11/2020	0.255	0.962	4.81
9CI-PF3ONS	756426-58-1	0.481 U	G1766-FS(0)	1.000	11/11/2020	0.258	0.481	4.81
11CI-PF3OUds	763051-92-9	0.962 U	G1766-FS(0)	1.000	11/11/2020	0.222	0.962	4.81

0.962 U

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

3

Client ID CBD-AOA-MW01P-1020

Battelle ID G1767-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix GW
 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	2970 D	G1767-FS-D(9)	312.500	11/11/2020	155	442	1470
PFHpA	375-85-9	1740 D	G1767-FS-D(7)	62.500	11/11/2020	15.5	59.0	295
PFOA	335-67-1	2330 D	G1767-FS-D(7)	62.500	11/11/2020	30.1	88.4	295
PFNA	375-95-1	2130 D	G1767-FS-D(7)	62.500	11/11/2020	18.2	59.0	295
PFDA	335-76-2	225 D	G1767-FS-D(3)	5.000	11/11/2020	0.670	2.36	23.6
PFUnA	2058-94-8	942 D	G1767-FS-D(7)	62.500	11/11/2020	12.9	29.5	295
PFDoA	307-55-1	2.68 J	G1767-FS(0)	1.000	11/11/2020	0.181	0.472	4.72
PFTrDA	72629-94-8	5.57	G1767-FS(0)	1.000	11/11/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89 U	G1767-FS(0)	1.000	11/11/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	0.943	G1767-FS(0)	1.000	11/11/2020	0.330	0.943	4.72
NEtFOSAA	2991-50-6	1.99 J	G1767-FS(0)	1.000	11/11/2020	0.472	0.943	4.72
PFBS	375-73-5	171	G1767-FS(0)	1.000	11/11/2020	0.136	0.472	4.72
PFHxS	355-46-4	7140 D	G1767-FS-D(9)	312.500	11/11/2020	33.0	118	1470
PFOS	1763-23-1	21600 D	G1767-FS-D(9)	312.500	11/11/2020	129	295	1470
HFPO-DA	13252-13-6	0.472 U	G1767-FS(0)	1.000	11/11/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943 U	G1767-FS(0)	1.000	11/11/2020	0.250	0.943	4.72
9CI-PF3ONS	756426-58-1	0.472 U	G1767-FS(0)	1.000	11/11/2020	0.253	0.472	4.72
11CI-PF3OUds	769051-92-9	0.943 U	G1767-FS(0)	1.000	11/11/2020	0.218	0.943	4.72

0.943 u

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Analyzed by: Schumitz, Denise
 Printed: 11/17/2020



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

4

Client ID CBD-AOA-MW03-1020

Battelle ID G1768-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix GW
 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	6210 D	G1768-FS-D(7)	156.250	11/11/2020	77.7	221	737
PFHpA	375-85-9	5820 D	G1768-FS-D(5)	62.500	11/11/2020	15.3	59.0	295
PFOA	335-67-1	6800 D	G1768-FS-D(7)	156.250	11/11/2020	75.3	221	737
PFNA	375-95-1	8720 D	G1768-FS-D(5)	62.500	11/11/2020	18.2	59.0	295
PFDA	335-76-2	306 D	G1768-FS-D(3)	5.000	11/11/2020	0.670	2.36	23.6
PFUnA	2058-94-8	763 D	G1768-FS-D(5)	62.500	11/11/2020	12.9	29.5	295
PFDoA	307-55-1	4.01 J	G1768-FS(0)	1.000	11/11/2020	0.181	0.472	4.72
PFTrDA	72629-94-8	25.0 D	G1768-FS(0)	1.000	11/11/2020	0.145	0.472	4.72
PFTeDA	376-06-7	1.89 U	G1768-FS(0)	1.000	11/11/2020	0.692	1.89	4.72
NMeFOSAA	2355-31-9	1.05 U	G1768-FS(0)	1.000	11/11/2020	0.330	0.943	4.72
NEtFOSAA	2991-50-6	2.03 J	G1768-FS(0)	1.000	11/11/2020	0.472	0.943	4.72
PFBS	375-73-5	574 D	G1768-FS-D(3)	5.000	11/11/2020	0.679	2.36	23.6
PFHxS	355-46-4	25600 D	G1768-FS-D(9)	390.625	11/11/2020	41.3	147	1840
PFOS	1763-23-1	112000 D	G1768-FS-D(13)	2441.406	11/12/2020	1010	2300	11500
HFPO-DA	13252-13-6	0.472 U	G1768-FS(0)	1.000	11/11/2020	0.234	0.472	4.72
Adona	919005-14-4	0.943 U	G1768-FS(0)	1.000	11/11/2020	0.250	0.943	4.72
9Cl-PF3ONS	756426-58-1	0.472 U	G1768-FS(0)	1.000	11/11/2020	0.253	0.472	4.72
11Cl-PF3OUdS	763051-92-9	0.943 U	G1768-FS(0)	1.000	11/11/2020	0.218	0.943	4.72

MBL

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Analyzed by: Schumitz, Denise
 Printed: 11/17/2020



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

5

Client ID CBD-AOA-MW08-1020

Battelle ID G1769-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix GW
 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	2280 U	G1769-FS-D(7)	31.250	11/11/2020	15.8	45.1	150
PFHpA	375-85-9	881 U	G1769-FS-D(3)	5.000	11/11/2020	1.26	4.81	24.0
PFOA	335-67-1	4630 U	G1769-FS-D(9)	78.125	11/11/2020	38.4	113	376
PFNA	375-95-1	2430 U	G1769-FS-D(7)	31.250	11/11/2020	9.28	30.0	150
PFDA	335-76-2	33.6 U	G1769-FS(0)	1.000	11/11/2020	0.137	0.481	4.81
PFUnA	2058-94-8	3.49 J	G1769-FS(0)	1.000	11/11/2020	0.211	0.481	4.81
PFDoA	307-55-1	0.481 U	G1769-FS(0)	1.000	11/11/2020	0.185	0.481	4.81
PFTiDA	72629-94-8	0.481 U	G1769-FS(0)	1.000	11/11/2020	0.148	0.481	4.81
PFTeDA	376-06-7	1.92 U	G1769-FS(0)	1.000	11/11/2020	0.705	1.92	4.81
NMeFOSAA	2355-31-9	0.962 U	G1769-FS(0)	1.000	11/11/2020	0.337	0.962	4.81
NEFOSAA	2991-50-6	0.962 U	G1769-FS(0)	1.000	11/11/2020	0.481	0.962	4.81
PFBS	375-73-5	501 U	G1769-FS-D(3)	5.000	11/11/2020	0.692	2.40	24.0
PFHxS	355-46-4	7690 U	G1769-FS-D(11)	195.313	11/11/2020	21.0	75.1	939
PFOS	1763-23-1	13300 U	G1769-FS-D(11)	195.313	11/11/2020	82.1	188	939
HFPO-DA	13252-13-6	0.481 U	G1769-FS(0)	1.000	11/11/2020	0.238	0.481	4.81
Adona	919005-14-4	0.962 U	G1769-FS(0)	1.000	11/11/2020	0.255	0.962	4.81
9CI-PF3ONS	756426-58-1	0.481 U	G1769-FS(0)	1.000	11/11/2020	0.258	0.481	4.81
11CI-PF3OUdS	763051-92-9	0.962 U	G1769-FS(0)	1.000	11/11/2020	0.222	0.962	4.81

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11/17/20
 Analyzed by: Schumitz, Denise
 Printed: 11/17/2020



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

6

Client ID CBD-AOA-MW02-1020

Battelle ID G1772-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix GW
 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	3860	G1772-FS-D(7)	78.125	11/11/2020	37.4	107	355
PFHpA	375-85-9	1850	G1772-FS-D(3)	12.500	11/11/2020	2.99	11.4	56.8
PFOA	335-67-1	3870	G1772-FS-D(7)	78.125	11/11/2020	36.3	107	355
PFNA	375-95-1	31000	G1772-FS-D(11)	488.281	11/11/2020	137	444	2220
PFDA	335-76-2	849	G1772-FS-D(3)	12.500	11/11/2020	1.61	5.68	56.8
PFUnA	2058-94-8	868	G1772-FS-D(3)	12.500	11/11/2020	2.49	5.68	56.8
PFDoA	307-55-1	5.16	G1772-FS(0)	1.000	11/11/2020	0.175	0.455	4.55
PFTrDA	72629-94-8	86.9	G1772-FS(0)	1.000	11/11/2020	0.140	0.455	4.55
PFTeDA	376-06-7	1.82 U	G1772-FS(0)	1.000	11/11/2020	0.666	1.82	4.55
NMeFOSAA	2355-31-9	0.909 U	G1772-FS(0)	1.000	11/11/2020	0.318	0.909	4.55
NEtFOSAA	2991-50-6	0.909 U	G1772-FS(0)	1.000	11/11/2020	0.455	0.909	4.55
PFBS	375-73-5	261	G1772-FS(0)	1.000	11/11/2020	0.131	0.455	4.55
PFHxS	355-46-4	12300	G1772-FS-D(9)	195.313	11/11/2020	19.9	71.0	888
PFOS	1763-23-1	171000	G1772-FS-D(13)	2441.406	11/11/2020	970	2220	11100
HFPO-DA	13252-13-6	0.455 U	G1772-FS(0)	1.000	11/11/2020	0.225	0.455	4.55
Adona	919005-14-4	0.909 U	G1772-FS(0)	1.000	11/11/2020	0.241	0.909	4.55
9CI-PF3ONS	756426-58-1	0.455 U	G1772-FS(0)	1.000	11/11/2020	0.244	0.455	4.55
11CI-PF3OUdS	763051-92-9	0.909 U	G1772-FS(0)	1.000	11/11/2020	0.210	0.909	4.55

11/11/21

Analyzed by: Schumitz, Denise
 Printed: 11/17/2020



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-MW18-1020

Battelle ID G1773-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.255
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	636	G1773-FS-D(3)	5.000	11/11/2020	2.58	7.35	24.5
PFHpA	375-85-9	412	G1773-FS-D(3)	5.000	11/11/2020	1.29	4.90	24.5
PFOA	335-67-1	1030	G1773-FS-D(5)	12.500	11/11/2020	6.26	18.4	61.3
PFNA	375-95-1	631	G1773-FS-D(3)	5.000	11/11/2020	1.51	4.90	24.5
PFDA	335-76-2	8.21	G1773-FS(0)	1.000	11/11/2020	0.139	0.490	4.90
PFUnA	2058-94-8	30.8	G1773-FS(0)	1.000	11/11/2020	0.215	0.490	4.90
PFDoA	307-55-1	0.490 U	G1773-FS(0)	1.000	11/11/2020	0.188	0.490	4.90
PFTrDA	72629-94-8	0.490 U	G1773-FS(0)	1.000	11/11/2020	0.151	0.490	4.90
PFTeDA	376-06-7	1.96 U WJ	G1773-FS(0)	1.000	11/11/2020	0.719	1.96	4.90
NMeFOSAA	2355-31-9	0.980	G1773-FS(0)	1.000	11/11/2020	0.343	0.980	4.90
NEtFOSAA	2991-50-6	0.980 U	G1773-FS(0)	1.000	11/11/2020	0.490	0.980	4.90
PFBS	375-73-5	62.0	G1773-FS(0)	1.000	11/11/2020	0.141	0.490	4.90
PFHxS	355-46-4	12800	G1773-FS-D(9)	156.250	11/12/2020	17.2	61.3	766
PFOS	1763-23-1	12700	G1773-FS-D(9)	156.250	11/12/2020	66.9	153	766
HFPO-DA	13252-13-6	0.490 U	G1773-FS(0)	1.000	11/11/2020	0.243	0.490	4.90
Adona	919005-14-4	0.980 U	G1773-FS(0)	1.000	11/11/2020	0.260	0.980	4.90
9Cl-PF3ONS	756426-58-1	0.490 U	G1773-FS(0)	1.000	11/11/2020	0.263	0.490	4.90
11Cl-PF3OUdS	763051-92-9	0.980 U	G1773-FS(0)	1.000	11/11/2020	0.226	0.980	4.90

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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-EB01-101920-GW

Battelle ID G1774-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix AQ
 Sample Size 0.255
 Size Unit-Basis L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFHxA	307-24-4	1.47 U	G1774-FS(0)	1.000	11/11/2020	0.517	1.47	4.90
PFHpA	375-85-9	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.258	0.980	4.90
PFOA	335-67-1	1.47 U	G1774-FS(0)	1.000	11/11/2020	0.501	1.47	4.90
PFNA	375-95-1	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.303	0.980	4.90
PFDA	335-76-2	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.139	0.490	4.90
PFUnA	2058-94-8	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.215	0.490	4.90
PFDoA	307-55-1	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.188	0.490	4.90
PFTrDA	72629-94-8	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.151	0.490	4.90
PFTeDA	376-06-7	1.96 U	G1774-FS(0)	1.000	11/11/2020	0.719	1.96	4.90
NMeFOSAA	2355-31-9	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.343	0.980	4.90
NEtFOSAA	2991-50-6	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.490	0.980	4.90
PFBS	375-73-5	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.141	0.490	4.90
PFHxS	355-46-4	0.392 U	G1774-FS(0)	1.000	11/11/2020	0.110	0.392	4.90
PFOS	1763-23-1	0.449 J	G1774-FS(0)	1.000	11/11/2020	0.428	0.980	4.90
HFPO-DA	13252-13-6	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.243	0.490	4.90
Adona	919005-14-4	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.260	0.980	4.90
9CI-PF3ONS	756426-58-1	0.490 U	G1774-FS(0)	1.000	11/11/2020	0.263	0.490	4.90
11CI-PF3OUds	763051-92-9	0.980 U	G1774-FS(0)	1.000	11/11/2020	0.226	0.980	4.90

11/17/20

Analyzed by: Schumitz, Denise
 Printed: 11/17/2020



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

9

Client ID CBD-SO3-MW01-1020

Battelle ID G1775-FS
 Sample Type SA
 Collection Date 10/19/2020
 Extraction Date 10/22/2020
 Analytical Instrument Sciex 6500+ (AE) LC/MS/MS
 % Moisture NA
 Matrix GW
 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	39.2	G1775-FS(0)	1.000	11/11/2020	0.479	1.36	4.55
PFHpA	375-85-9	14.5	G1775-FS(0)	1.000	11/11/2020	0.239	0.909	4.55
PFOA	335-67-1	59.6	G1775-FS(0)	1.000	11/11/2020	0.465	1.36	4.55
PFNA	375-95-1	67.7	G1775-FS(0)	1.000	11/11/2020	0.281	0.909	4.55
PFDA	335-76-2	0.708 J	G1775-FS(0)	1.000	11/11/2020	0.129	0.455	4.55
PFUnA	2058-94-8	2.96 J	G1775-FS(0)	1.000	11/11/2020	0.199	0.455	4.55
PFDoA	307-55-1	0.455 U	G1775-FS(0)	1.000	11/11/2020	0.175	0.455	4.55
PFTrDA	72629-94-8	0.455 U	G1775-FS(0)	1.000	11/11/2020	0.140	0.455	4.55
PFTeDA	376-06-7	1.82 U	G1775-FS(0)	1.000	11/11/2020	0.666	1.82	4.55
NMeFOSAA	2355-31-9	0.909 U	G1775-FS(0)	1.000	11/11/2020	0.318	0.909	4.55
NEtFOSAA	2991-50-6	0.909 U	G1775-FS(0)	1.000	11/11/2020	0.455	0.909	4.55
PFBS	375-73-5	7.50	G1775-FS(0)	1.000	11/11/2020	0.131	0.455	4.55
PFHxS	355-46-4	393	G1775-FS-D(3)	5.000	11/11/2020	0.509	1.82	22.7
PFOS	1763-23-1	1090	G1775-FS-D(7)	31.250	11/12/2020	12.4	28.4	142
HFPO-DA	13252-13-6	0.455 U	G1775-FS(0)	1.000	11/11/2020	0.225	0.455	4.55
Adona	919005-14-4	0.909 U	G1775-FS(0)	1.000	11/11/2020	0.241	0.909	4.55
9Cl-PF3ONS	756426-58-1	0.455 U	G1775-FS(0)	1.000	11/11/2020	0.244	0.455	4.55
11Cl-PF3OUds	763051-92-9	0.909 U	G1775-FS(0)	1.000	11/11/2020	0.210	0.909	4.55

11/10/21

Analyzed by: Schumitz, Denise
 Printed: 11/17/2020

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			20-1321			Perfluoroalkyl Compounds	CBD-AOA-EB01-101920-GW	WQ	Water for QC samples	19-Oct-20
CBD-AOA-MW01	SITE 00010	CHESAPEAKE_BEACH_NRL	WLM	Monitoring well	20-1321	1445491.7	361826.5	Perfluoroalkyl Compounds	CBD-AOA-MW01-1020	WG	Ground water	19-Oct-20
CBD-AOA-MW01	SITE 00010	CHESAPEAKE_BEACH_NRL	WLM	Monitoring well	20-1321	1445491.7	361826.5	Perfluoroalkyl Compounds	CBD-AOA-MW01P-1020	WG	Ground water	19-Oct-20
CBD-AOA-MW02	SITE 00010	CHESAPEAKE_BEACH_NRL	WLM	Monitoring well	20-1321	1445472.6	361613.5	Perfluoroalkyl Compounds	CBD-AOA-MW02-1020	WG	Ground water	19-Oct-20
CBD-AOA-MW03	SITE 00010	CHESAPEAKE_BEACH_NRL	WLM	Monitoring well	20-1321	1445478.4	361684.9	Perfluoroalkyl Compounds	CBD-AOA-MW03-1020	WG	Ground water	19-Oct-20
CBD-AOA-MW04	SITE 00010	CHESAPEAKE_BEACH_NRL	WLM	Monitoring well	20-1321	1445519	361651.2	Perfluoroalkyl Compounds	CBD-AOA-MW04-1020	WG	Ground water	19-Oct-20
CBD-AOA-MW08	SITE 00010	CHESAPEAKE_BEACH_NRL	WLM	Monitoring well	20-1321	1445558.9	362046.6	Perfluoroalkyl Compounds	CBD-AOA-MW08-1020	WG	Ground water	19-Oct-20
CBD-AOA-MW18	SITE 00010	CHESAPEAKE_BEACH_NRL	WLM	Monitoring well	20-1321	1445727.9	362263.4	Perfluoroalkyl Compounds	CBD-AOA-MW18-1020	WG	Ground water	19-Oct-20
CBD-S03-MW01	SITE 00003	CHESAPEAKE_BEACH_NRL	WLM	Monitoring well	20-1321	1445296.5	361457.5	Perfluoroalkyl Compounds	CBD-S03-MW01-1020	WG	Ground water	19-Oct-20